



# THIRD EDITION General Products Catalogue



Quality  
Commitment  
Reliability



**Raychem**  
from TE Connectivity



# Quality Commitment Reliability

## TransNet New Zealand Limited

At TransNet we offer a large range of products to the Electrical Distribution, Transmission, Rail, OEM and Wholesale Industry. We have the expertise and knowledge to assist with equipment specification as well as providing hands on service and support in the field.



With four stocking distribution facilities in Australasia and 24hr contact, TransNet is able to offer local support and fast delivery. Your partners in power, we here at TransNet, pride ourselves on the ability to react quickly to any situation and have product to you whenever and wherever you need it.



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# TE ENERGY

TE ENERGY ARE A LEADING GLOBAL SUPPLIER OF;

- Cable Accessories
- Connectors and Fittings
- Insulators and Insulation
- Surge Arresters
- Switching, Protection and Lighting

Our global expertise combined with a local New Zealand presence provides expert application and engineering assistance, hands-on field training and continuous after-sales support to help our customers successfully master the challenges of today's businesses. TE Energy are well recognised in the New Zealand market for;

- A Customer focused organisation
- Innovation and technology driven
- Extensive product offering
- Industry leadership and expertise
- Structural and financial strength

Our wide range of reliable and cost-effective solutions is continuously expanded through research-driven product development. Utilux is a brand that has built an enviable reputation for high quality, reliable electrical connectors. For over 100 years, this dynamic brand has been a leader in the field of interconnection systems. Utilux is now part of the truly innovative, international market leader –TE Energy.

Our aim is to provide the best possible products and services to keep our customers at the cutting edge of industry standards internationally.

## QUALITY YOU CAN RELY ON

With strong brands like Raychem and Utilux, TE Energy quality is second to none. The Utilux manufacturing operation is certified to International Standards Organisation (ISO) 9001:2000 quality standards, the benchmark for the world's best practice in design and production facilities and methods.

TE Energy highly skilled technical team ensures that these optimal standards are inherent in every product that leaves our factories. You can be sure that Utilux branded products are fabricated from the finest materials and produced to exacting tolerances. They represent the latest technology and the best design for the tasks they are required to perform.

Trust the inventors of Heatshrink Technology. The most innovative utilities and industries around the world use our power cable accessories. Our Raychem products are designed to withstand environmental extremes and high pollution levels specifically for our New Zealand customers. They help maintain service reliability in both overhead and underground installations. Their specially formulated insulation materials resist tracking and degradation caused by erosion, ultraviolet light and other environmental stresses. All our cable accessories meet international specifications, such as IEC, CENELEC, IEEE and GOST.

## RELIABLE ELECTRICAL CONNECTORS

Our full line of connectors and accessories for low, medium and high voltage cable and overhead networks, substations, grounding applications, rail transport infrastructure, industrial applications, cover most applications in an electrical network. Utilux is a leading brand of electrical connectors sold to original equipment manufacturers and electrical distribution companies throughout Australia, New Zealand and Asia. A comprehensive range, the most up to date production technology and the highest quality control standards ensure that there are Utilux connectors, of optimum reliability and durability, for all major power distribution applications.

## RESEARCH & DEVELOPMENT

As part of the world's largest electrical connector company, the development of products is an ongoing commitment. It is done on a global basis, utilising the talents of many people throughout the organisation to ensure a global product for the New Zealand market.

## TECHNICAL ASSISTANCE

TE Energy in New Zealand has a full team of experienced technical sales and support people who are available to assist in the purchase of products shown in this catalogue or to develop a solution to meet your particular needs.

# TERMINALS

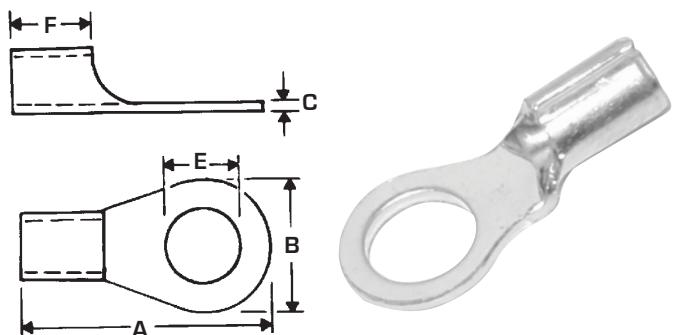
Types include: • **Utilugs** – Non insulated • **Pre-insulated Utilugs** – Complete with PVC insulated barrel.

• **Supergrip Utilugs** – Complete with additional Copper over the barrel. For use in high vibration conditions.

RING TERMINAL STYLE	STUD SIZE	PAGE
Un-insulated Utilug	M1.6-M18	4
Pre-insulated Utilug	M1.6-M18	5
Pre-insulated Supergrip	M1.6-M12	6
High Temp Utilug	M4-M6	7
Heavy Duty Pre-insulated	M5-M6	7
FORK TERMINAL STYLE	STUD SIZE	PAGE
Un-insulated Utilug	M3-M6	8
Pre-insulated Utilug	M3-M6	8
Pre-insulated Supergrip	M3-M6	9
BOOTLACE FERRULE STYLE	WIRE SIZE mm	PAGE
Un-insulated Bootlace Ferrule	0.5-120	9
Insulated Bootlace Ferrule	0.25-70	10
Dual Bootlace Ferrule	0.5-16	10
PIN CONNECTOR STYLE	TERMINAL SIZE	PAGE
Un-insulated Pin Connector	0.5-6	11
Pre-insulated Pin Connector	0.5-6	11
Pre-insulated Supergrip Pin Connector	0.2-6	11
QC CONNECTOR STYLE	WIRE SIZE mm	PAGE
2.8mm Receptacle	0.5-1.5	12
4.8mm Receptacle	0.5-2.5	12
6.3mm Receptacle	0.5-6.0	12
6.3mm Tabs	0.5-6.0	13
6.3mm Adaptor Piggy Back	0.5-6.0	13
9.3mm Receptacle	2.5-6.0	13
LIP BLADE STYLE	WIRE SIZE mm	PAGE
Lip Blade Terminal	0.5-6.0	14
BULLET CONNECTOR STYLE	WIRE SIZE mm	PAGE
Pre-insulated Terminal	0.5-2.5	14
Pre-insulated Receptacle	0.5-2.5	14
LINK CONNECTOR STYLE	TERMINAL SIZE	PAGE
Closed End Pre-insulated Crimp Link Cable Connector	2.08-5	15
Pre-insulated Supergrip Crimp Connector	0.5-6	15
Heavy Duty Pre-insulated Crimp Link Cable Connector		16
BRASS CONNECTORS		PAGE
Loose piece Un-insulated Brass Connectors		16
DURASEAL HEATSHRINKABLE TERMINALS		PAGE
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TERMINAL KIT		PAGE
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INSULATED SCREW CONNECTORS		PAGE
SC1		22
SC2		22

## UN-INSULATED RING TERMINAL UTILUG

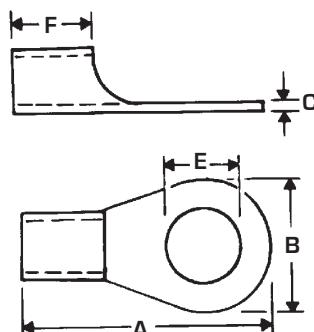
- Copper electro tinned to minimise corrosion
- Serrated barrel provides secure mechanical and electrical connection
- Also available in continuous strip form
- Suitable for small flexible cables



CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	STUD SIZE	DIMENSIONS mm					TOOL NO.
					A	B	C	E	F	
UR1.5M1.6	H3110	NO.1 22-16AWG	0.5 TO 1.5	M1.6	12.5	5.5	0.7	2.5	4.8	#00/1 #16B/1 #18/1
UR1.5M3S	H3111			M3	12.5	5.5	0.7	3.7	4.8	
UR1.5M3M	H3116			M3	14.4	6.6	0.7	3.7	4.8	
UR1.5M3L	H3112			M3	15.8	8.0	0.7	3.7	4.8	
UR1.5M4S	H3113			M4	14.4	6.6	0.7	4.3	4.8	
UR1.5M4L	H3114			M4	15.8	8.0	0.7	4.3	4.8	
UR1.5M5S	H3115			M5	15.8	8.0	0.7	5.3	4.8	
UR1.5M5L	H3117			M5	21.8	11.6	0.7	5.3	4.8	
UR1.5M6	H3118			M6	21.8	11.6	0.7	6.4	4.8	
UR1.5M8	H3119			M8	21.8	11.6	0.7	8.4	4.8	
UR1.5M10	H3140			M10	25.5	13.6	0.7	10.5	4.8	
UR2.5M3S	H3120	NO.2 16-14AWG	1.5 TO 2.5	M3	14.4	6.6	0.8	3.7	4.8	#00/1 #16B/1
UR2.5M3L	H3121			M3	16.8	8.5	0.8	3.7	4.8	
UR2.5M4S	H3122			M4	14.4	6.6	0.8	4.3	4.8	
UR2.5M4L	H3123			M4	16.8	8.5	0.8	4.3	4.8	
UR2.5M5S	H3125			M5	16.8	8.5	0.8	5.3	4.8	
UR2.5M5L	H3126			M5	16.8	9.5	0.8	5.3	4.8	
UR2.5M6	H3127			M6	21.8	12.0	0.8	6.4	4.8	
UR2.5M8	H3128			M8	21.8	12.0	0.8	8.4	4.8	
UR2.5M10	H3129			M10	25.5	13.6	0.8	10.5	4.8	
UR6M3	H3132	NO.3 12-10AWG	2.5 TO 6.0	M3	15.7	7.2	1.0	3.7	6.0	#00/1 #16B/1
UR6M4S	H3130			M4	15.7	7.2	1.0	4.3	6.0	
UR6M4L	H3131			M4	19.6	9.5	1.0	4.3	6.0	
UR6M5	H3133			M5	19.6	9.5	1.0	5.3	6.0	
UR6M6	H3134			M6	22.5	12.0	1.0	6.4	6.0	
UR6M8	H3137			M8	27.0	15.0	1.0	8.4	6.0	
UR6M10	H3138			M10	27.0	15.0	1.0	10.5	6.0	
UR6M12	H3139			M12	31.6	19.2	1.0	13.0	6.0	
UR6M16	H3161			M16	47.6	31.8	0.9	31.8	6.6	
UR6M18	H3162			M18	47.6	31.8	0.9	31.8	6.6	
UR8.5M6	H3183	NO.4 10-8AWG	6.0 TO 10	M6	23.8	12.0	1.2	6.4	8.5	#00/1 #18/1
UR8.5M10	H3185A			M10	29.8	15.0	1.2	10.5	8.5	
UR8.5M16	H3187A			M16	50.0	31.6	1.2	15.0	8.5	

## PRE-INSULATED RING TERMINAL UTILUG

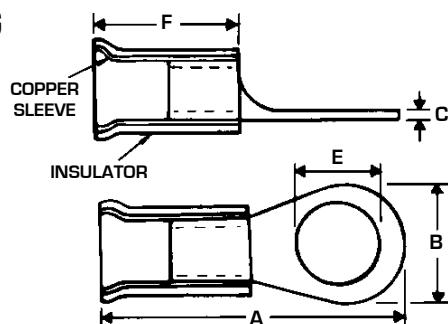
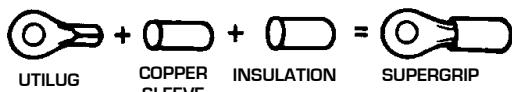
- Copper electro tinned to minimise corrosion
- PVC insulation for insulation support



CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	STUD SIZE	DIMENSIONS mm					MAX. INSUL DIA. mm	TOOL NO.
RRM1.6	H4110	N 0.1 RED 22-16AWG	0.5 TO 1.5	M1.6	17.5	5.5	0.7	3.2	10.0	3.5	#102/1
RRM3S	H4111			M3	17.5	5.5	0.7	3.7	10.0		
RRM3M	H4116			M3	19.4	6.6	0.7	3.7	10.0		
RRM3L	H4112			M3	20.8	8.0	0.7	3.7	10.0		
RRM4S	H4113			M4	19.4	6.6	0.7	4.3	10.0		
RRM4L	H4114			M4	20.8	8.0	0.7	4.3	10.0		
RRM5S	H4115			M5	20.8	8.0	0.7	5.3	10.0		
RRM5L	H4117			M5	26.8	11.6	0.7	5.3	10.0		
RRM6	H4118			M6	26.8	11.6	0.7	6.4	10.0		
RRM8	H4119			M8	26.8	11.6	0.7	8.4	10.0		
RRM10	H4140			M10	30.5	13.6	0.7	10.5	10.0		
BRM3S	H4120	NO.2 BLUE 16-14AWG	1.5 TO 2.5	M3	19.4	6.6	0.8	3.7	10.0	4.3	#102/1
BRM3L	H4121			M3	21.8	8.5	0.8	3.7	10.0		
BRM4M	H4124			M4	17.8	6.6	0.8	3.7	10.0		
BRM4S	H4122			M4	19.4	6.6	0.8	4.3	10.0		
BRM4L	H4123			M4	21.8	8.5	0.8	4.3	10.0		
BRM5S	H4125			M5	21.8	8.5	0.8	5.3	10.0		
BRM5L	H4126			M5	21.8	9.5	0.8	5.3	10.0		
BRM6	H4127			M6	26.8	12.0	0.8	6.4	10.0		
BRM8	H4128			M8	26.8	12.0	0.8	8.4	10.0		
BRM10	H4129			M10	30.5	13.6	0.8	10.5	10.0		
YRM3	H4132	NO.3 YELLOW 12-10AWG	2.5 TO 6.0	M3	22.7	7.2	1.0	3.7	10.0	6.1	#102/1
YRM4S	H4130			M4	22.7	7.2	1.0	4.3	10.0		
YRM4L	H4131			M4	26.6	9.5	1.0	4.3	10.0		
YRM5	H4133			M5	26.6	9.5	1.0	5.3	10.0		
YRM6	H4134			M6	29.5	12.0	1.0	6.4	10.0		
YRM8	H4137			M8	34.0	15.0	1.0	8.4	10.0		
YRM10	H4138			M10	34.0	15.0	1.0	10.5	10.0		
YRM12	H4139			M12	38.6	19.2	1.0	13.0	10.0		
YRM18	H4162			M18	54.8	31.8	0.9	31.8	13.5		

## RING TERMINAL SUPERGRIP UTILUG

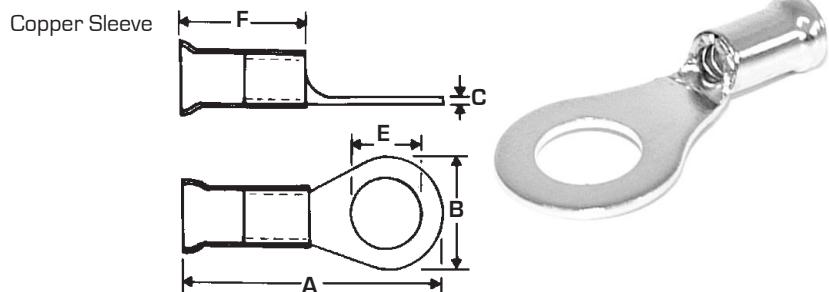
- Fitted with a Copper ferrule and pre-insulated for secure insulation support
- Copper electro tinned to minimise corrosion
- Serrated barrel provides secure mechanical and electrical connection



CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	STUD SIZE	DIMENSIONS mm					MAX. INSUL DIA. mm	TOOL NO.
					A	B	C	E	F		
RRSGM1.6	H4210	NO.1 RED 22-16AWG	0.5 TO 1.5	M1.6	18.0	5.5	0.7	3.2	10.5	3.5	#76B/1 #102/1
RRSGM3S	H4211			M3	18.0	5.5	0.7	3.7	10.5		
RRSGM3M	H4216			M3	19.9	6.6	0.7	3.7	10.5		
RRSGM3L	H4212			M3	21.3	8.0	0.7	3.7	10.5		
RRSGM4S	H4213			M4	19.9	6.6	0.7	4.3	10.5		
RRSGM4L	H4214			M4	21.3	8.0	0.7	4.3	10.5		
RRSGM5S	H4215			M5	21.3	8.0	0.7	5.3	10.5		
RRSGM5L	H4217			M5	27.3	11.6	0.7	5.3	10.5		
RRSGM6	H4218			M6	27.3	11.6	0.7	6.4	10.5		
RRSGM8	H4219			M8	27.3	11.6	0.7	8.4	10.5		
RRSGM10	H4240			M10	31.0	13.6	0.7	10.5	10.5		
BRSGM3S	H4220	NO.2 BLUE 16-14AWG	1.5 TO 2.5	M3	19.9	6.6	0.8	3.7	10.5	4.3	#76B/1 #102/1
BRSGM3L	H4221			M3	22.3	8.5	0.8	3.7	10.5		
BRSGM4S	H4222			M4	19.9	6.6	0.8	4.3	10.5		
BRSGM4L	H4223			M4	22.3	8.5	0.8	4.3	10.5		
BRSGM5S	H4225			M5	22.3	8.5	0.8	5.3	10.5		
BRSGM5L	H4226			M5	22.3	9.5	0.8	5.3	10.5		
BRSGM6	H4227			M6	27.3	12.0	0.8	6.4	10.5		
BRSGM8	H4228			M8	27.3	12.0	0.8	8.4	10.5		
BRSGM10	H4229			M10	31.0	13.6	0.8	10.5	10.5		
YRSGM3	H4232	NO.3 YELLOW 12-10AWG	2.5 TO 6.0	M3	23.2	7.2	1.0	3.7	13.5	6.1	#76B/1 #102/1
YRSGM4S	H4230			M4	23.2	7.2	1.0	4.3	13.5		
YRSGM4L	H4231			M4	27.1	9.5	1.0	4.3	13.5		
YRSGM5	H4233			M5	27.1	9.5	1.0	5.3	13.5		
YRSGM6	H4234			M6	30.0	12.0	1.0	6.4	13.5		
YRSGM8	H4237			M8	34.5	15.0	1.0	8.4	13.5		
YRSGM10	H4238			M10	34.5	15.0	1.0	10.5	13.5		
YRSGM12	H4239			M12	39.1	19.2	1.0	13.0	13.5		

## HIGH TEMPERATURE UTILUG RING TERMINALS

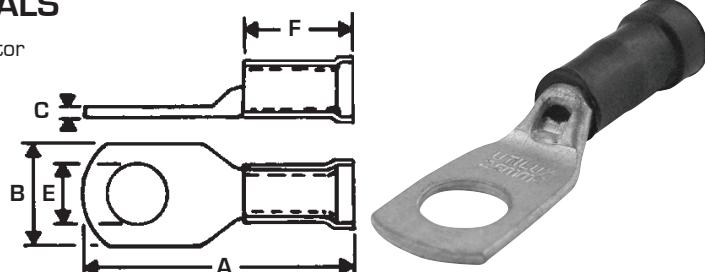
- Rated at 280°C
- Nickel plated



CAT NO	DESCP.	TERMINAL SIZE	CONDUCTOR SIZE	STUD SIZE	DIMENSIONS					MAX. INSUL. DIA. mm	TOOL NO.
RHT1.5M5	H3215	NO.1 22-16AWG	0.5 TO 1.5	M5	19.2	7.9	0.7	7.9	9.0	3.6	#76B/1 #16B/1
RHT2.5M4	H3223			M4	22.5	8.7	8.7	8.7	11.1		#76B/1 #16B/1
RHT2.5M5	H3225	NO.2 16-14AWG	1.5 TO 2.5	M5	22.5	8.7	8.7	8.7	11.1	4.3	#76B/1 #16B/1
RHT2.5M6	H3227			M6	27.8	12.7	12.7	12.7	11.1		#76B/1 #16B/1
RHT6M5	H3233	NO.3 12-10AWG	2.5 TO 6.0	M5	24.4	9.5	9.5	9.5	12.7		#76B/1 #16B/1
RHT6M6	H3234			M6	29.3	12.7	12.7	12.7	12.7	6.1	#18/1

## HEAVY DUTY INSULATED RING TERMINALS

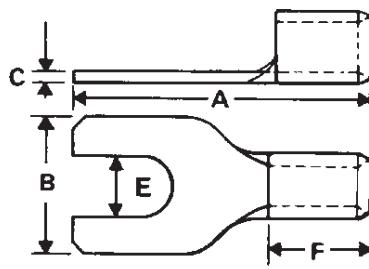
- Seamless drawn Copper tube electro tinned, black nylon insulator
- Palms radiused



CAT NO	DESCP.	TERMINAL SIZE	STRANDING SIZE	STUD SIZE	DIMENSIONS mm					MAX. INSUL. DIA. mm	TOOL NO.
RHD0.5M5S	H2001S			M5	26.0	8.6	0.9	11.1	12.7		#76B/1
RHD0.5M5L	H2001L	0.5	1/0.80	M5	29.4	8.7	0.9	15.1	12.7	3.5	#76B/1
RHD0.5M6	H2002			M6	30.0	10.3	0.8	15.1	12.7		#76B/1
RHD2.5M5	H2036	2.5	7/0.67	M5	26.2	9.0	1.0	11.9	12.7		#76B/1
RHD2.5M6	H2037			M6	30.9	10.3	0.9	15.1	12.7	4.3	#76B/1
RHD4M5S	H2003S			M5	28.9	8.7	1.5	11.1	14.0		#76B/1
RHD4M5L	H2003L	4.0	7/0.85	M5	32.6	8.7	1.4	14.7	14.0	6.1	#76B/1
RHD4M6	H2004			M6	32.0	10.0	1.2	15.1	14.0		#76B/1
RHD6M6	H2005	6	7/1.04	M6	31.0	10.0	1.2	15.1	13.0	6.8	#76B/1
RHD10M6	H2006	10	7/1.35	M6	31.8	11.9	1.8	15.1	13.0	8.3	#76B/1

## UN-INSULATED FORK UTILUG

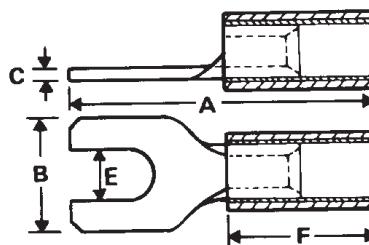
- Electro tinned to minimise corrosion
- Square sides provide a non-turn capability
- Suits terminal blocks



CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	STUD SIZE	DIMENSIONS mm					TOOL NO.
					A	B	C	E	F	
UF1.5M3	H4312	NO.1 22-16AWG	0.5 TO 1.5	M3	16.0	6.4	0.7	3.7	4.8	#00/1 #16/1 #76B/1
UF1.5M4	H4314			M4	16.0	7.2	0.7	4.3	4.8	
UF1.5M5S	H4315			M5	16.0	8.1	0.7	5.3	4.8	
UF1.5M5L	H4317			M5	16.0	9.5	0.7	5.3	4.8	
UF2.5M3	H4321	NO.2 16-14AWG	1.5 TO 2.5	M3	16.0	6.0	0.8	3.7	4.8	#00/1 #16/1 #18/1 #76B/1
UF2.5M4	H4323			M4	16.0	7.2	0.8	4.3	4.8	
UF2.5M5L	H4326			M5	16.0	9.3	0.8	5.3	4.8	
UF6M3	H4332	NO.3 12-10AWG	2.5 TO 6.0	M3	17.4	7.2	1.0	3.7	6.0	#00/1 #16/1 #18/1 #76B/1
UF6M4	H4331			M4	18.5	9.0	1.0	4.3	6.0	
UF6M5	H4333			M5	18.5	9.0	1.0	5.3	6.0	
UF6M6	H4334			M6	24.5	12.0	1.0	6.4	6.0	

## PRE-INSULATED FORK UTILUG

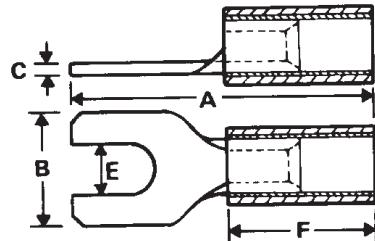
- Copper electro tinned to minimise corrosion
- Square sides provide a non-turn capability



CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	STUD SIZE	DIMENSIONS mm					MAX. INSUL DIA. mm	TOOL NO.
					A	B	C	E	F		
RFM3	H4412	NO.1 RED 22-16AWG	0.5 TO 1.5	M3	21.0	6.4	0.7	3.7	10.0	3.5	#102/1
RFM4	H4414			M4	21.0	7.2	0.7	4.3	10.0		
RFM5S	H4415			M5	21.0	8.1	0.7	5.3	10.0		
RFM5L	H4417			M5	21.0	9.5	0.7	5.3	10.0		
BFM3	H4421	NO.2 BLUE 16-14AWG	1.5 TO 2.5	M3	21.0	6.0	0.8	3.7	10.0	4.3	#102/1
BFM4	H4423			M4	21.0	7.2	0.8	4.3	10.0		
BFM5S	H4425			M5	21.0	7.9	0.8	5.3	10.0		
BFM5L	H4426			M5	21.0	9.3	0.8	5.3	10.0		
YFM3	H4432	NO.3 YELLOW 12-10AWG	2.5 TO 6.0	M3	25.5	8.3	1.0	3.7	13.0	6.1	#76B/1 #102/1
YFM4	H4431			M4	25.5	9.0	1.0	4.3	13.0		
YFM5	H4433			M5	25.5	9.0	1.0	5.3	13.0		
YFM6	H4434			M6	31.5	12.0	1.0	6.4	13.0		

## SUPERGRIP FORK UTILUG

- Electro tinned to minimise corrosion
- Square sides provide a non-turn capability
- Suits terminal blocks



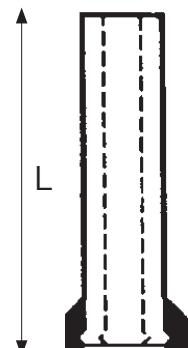
CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	STUD SIZE	DIMENSIONS mm					MAX. INSUL DIA. mm	TOOL NO.
RFSGM3	H4512	NO.1 RED TO 22-16AWG	0.5 1.0 1.5	M3	21.0	6.4	0.7	3.7	10.0	3.5	#102/1
RFSGM4	H4514			M4	21.0	7.2	0.7	4.0	10.0		
RFSGM5S	H4515			M5	21.0	8.1	0.7	5.3	10.0		
RFSGM5L	H4417			M5	21.0	9.5	0.7	5.3	10.0		
BFSGM3	H4521	NO.2 BLUE TO 16-14AWG	1.5 2.5	M3	21.0	6.0	0.8	3.7	10.0	4.3	#76B/1 #102/1
BFSGM4	H4523			M4	21.0	7.2	0.8	4.3	10.0		
BFSGM5S	H4525			M5	21.0	7.9	0.8	5.3	10.0		
BFSGM5L	H4526			M5	21.0	9.3	0.8	5.3	10.0		
YFSGM3	H4532	NO.3 YELLOW TO 12-10AWG	2.5 6.0	M3	25.5	8.3	1.0	3.7	13.0	6.1	#76B/1 #102/1
YFSGM4	H4531			M4	25.5	9.0	1.0	4.3	13.0		
YFSGM5	H4533			M5	25.5	9.0	1.0	5.3	13.0		
YSFGM6	H4534			M6	31.5	12.0	1.0	6.4	13.0		

## UN-INSULATED BOOTLACE FERRULES

- Used to contain strands within the thin Copper sleeve reducing chance of damage from terminal block screw
- Flared entry ensures fast, tidy installation



CAT NO.	CONDUCTOR AREA mm <sup>2</sup>	LENGTH mm	#113/1	#112/1	#114/1	TOOL NO.	SABC6	SABC10	SABC16
FEN0506	0.5	6	✓	✓			✓		
FEN0508	0.5	8	✓	✓			✓		
FEN7506	0.75	6	✓	✓			✓	✓	
FEN1006	1.0	6	✓	✓			✓	✓	
FEN1008	1.0	8	✓	✓			✓	✓	
FEN1507	1.5	7	✓	✓			✓	✓	
FEN2507	2.5	7	✓	✓			✓	✓	
FEN4012	4	12		✓			✓	✓	✓
FEN6010	6	10		✓			✓	✓	✓
FEN10-15	10	15		✓	✓			✓	✓
FEN16-15	16	15			✓				✓
FEN25-18	25	18			✓				
FEN35-20	35	20							
FEN50-22	50	22							
FEN70-25	70	25							
FEN95-25	95	25							
FEN120-32	120	32							

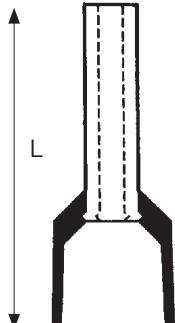


## INSULATED BOOTLACE FERRULES

- Used to terminate conductors
- Captures all strands
- Ensures terminal block screw doesn't damage conductor strands



CAT NO.	CONDUCTOR AREA mm <sup>2</sup>	LENGTH mm	COLOUR	TOOL NO.				
				#113/1	#112/1	#114/1	SABC6	SABC10
FE0206-LB	0.25	6	Light Blue				✓	
FE0208-LB	0.25	8	Light Blue				✓	
FE0306-TU	0.34	6	Turquoise				✓	
FE0308-TU	0.34	8	Turquoise				✓	
FE0508-OR	0.5	8	Orange	✓	✓		✓	
FE7508-WH	0.75	8	White	✓	✓		✓	✓
FE1008-YL	1.0	8	Yellow	✓	✓		✓	✓
FE1508-RD	1.5	8	Red	✓	✓		✓	✓
FE2508-BE	2.5	8	Blue	✓	✓		✓	✓
FE2518-BE	2.5	18	Blue	✓			✓	✓
FE4012-GY	4.0	12	Grey	✓			✓	✓
FE4018-GY	4.0	18	Grey	✓			✓	✓
FE6012-BK	6.0	12	Black	✓			✓	✓
FE6018-BK	6.0	18	Black	✓			✓	✓
FE10-12-IV	10	12	Ivory	✓		✓	✓	✓
FE16-18-GN	16	18	Green			✓		✓
FE25-16-BN	25	16	Brown			✓		
FE35-16-BG	35	16	Beige			✓		
FE50-20-OL	50	20	Olive					
FE70-20-YW	70	20	Yellow					

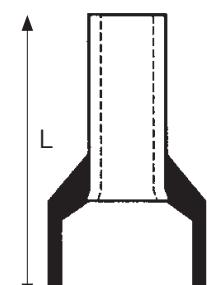


## DUAL BOOTLACE FERRULES

- Designed to terminate two conductors in the same terminal
- A larger neck opening gives the necessary room for the two conductors
- 0.5-2.5mm<sup>2</sup> range in stock, [\* depicts non stock items]

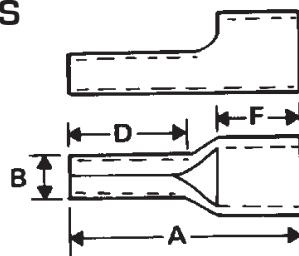


CAT NO.	CONDUCTOR AREA mm <sup>2</sup>	LENGTH mm	COLOUR	TOOL NO.				
				#113/1	#112/1	#114/1	SABC6	SABC10
FTE0508-WH	0.5	8	White	✓	✓		✓	
FTE7508-GR	0.75	8	Grey	✓	✓		✓	✓
FTE7510-GY	0.75	10	Grey	✓	✓		✓	✓
FTE1008-RD	1.0	8	Red	✓	✓		✓	✓
FTE1010-RD	1.0	10	Red	✓	✓		✓	✓
FTE1508-BK	1.5	8	Black	✓	✓		✓	✓
FTE1512-BK	1.5	12	Black	✓	✓		✓	✓
FTE2510-BE	2.5	10	Blue	✓	✓		✓	✓
FTE2513-BE	2.5	13	Blue	✓	✓		✓	✓
FTE4012-GY*	4	12	Grey	✓			✓	✓
FTE6014-YW*	6	14	Yellow	✓			✓	✓
FTE10-14-RD*	10	14	Red	✓		✓	✓	✓
FTE16-14-BE*	16	14	Blue			✓		



## UN-INSULATED CRIMP PIN CONNECTORS

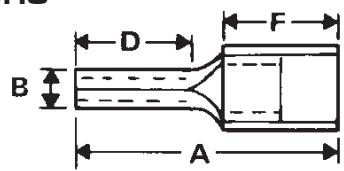
- Electro tinned Copper to minimise corrosion
- Sizes 1, 2, 3 circular pin



CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	DIMENSIONS mm				TOOL NO.
				A	B	D	F	
UP1.5	H2271	NO.1	0.5-1.5	15.9	1.6	9.5	5.2	
UP2.5	H2272	NO.2	1.5-2.5	17.4	2.0	10.3	5.5	
UP6	H2273	NO.3	2.5-6.0	20.6	2.8	11.9	6.6	#76B/1 #00/1 #16B/1

## PRE-INSULATED CRIMP PIN CONNECTORS

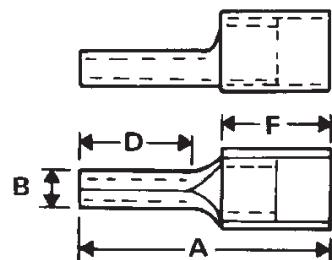
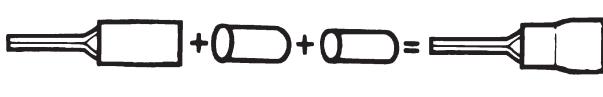
- Electro tinned Copper to minimise corrosion
- PVC insulation
- Circular pin



CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	DIMENSIONS mm				MAX INSUL. DIA. mm	TOOL NO.
				A	B	D	F		
RP	H2276	NO.1 Red	0.5-1.5	21.0	1.6	9.5	10.3	3.3	
BP	H2278	NO.2 Blue	1.5-2.5	23.8	2.0	10.3	11.9	4.3	
YP	H2280	NO.3 Yellow	2.5-6.0	27.5	2.8	11.9	13.5	6.1	#76B/1 #102/1

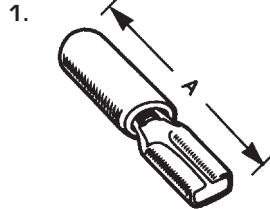
## SUPERGRIP PIN CONNECTORS

- Electro tinned Copper to minimise corrosion
- Circular pin fitted with a Copper ferrule and pre-insulated for secure insulation support



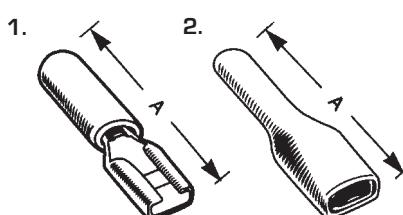
CAT NO.	DESCP.	TERMINAL SIZE	CONDUCTOR AREA mm <sup>2</sup>	DIMENSIONS mm				MAX INSUL. DIA. mm	TOOL NO.
				A	B	D	F		
MYPSG	H3556	NO.0 Yellow	0.2-0.5	18.3	1.2	10.0	8.3	2.2	#76B/1, #102/1
RPSG	H2286	NO.1 Red	0.5-1.5	21.0	1.6	9.5	10.3	3.5	#76B/1, #102/1
BPSG	H2287	NO.2 Blue	1.2-2.5	23.8	2.0	10.3	11.9	4.3	#76B/1, #102/1
YPSG	H2288	NO.3 Yellow	2.5-6.0	27.5	2.8	11.9	13.5	6.1	#76B/1, #102/1

## 2.8MM Q.C. RECEPTACLES



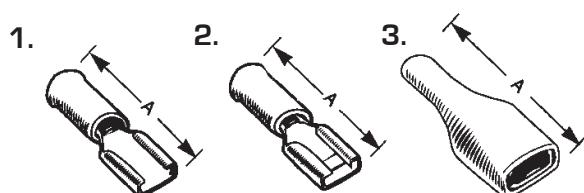
CAT NO.	DESCRP.	MATERIAL	THICKNESS	FINISH	LENGTH A mm	MAX INSUL. DIA. mm	WIRE SIZE mm	NOTES	TOOL NO.
RQCSG2.8/0.8	H3558	Brass/PVC	0.25	ET	17.9	3.2	0.5-1.5	Red to suit 0.8 Tab	#102/1
RQCSG2.8/0.5	H3564	Brass/PVC	0.25	ET	17.9	3.2	0.5-1.5	Red to suit 0.5 Tab	#76B/1

## 4.8MM Q.C. RECEPTACLES TO SUIT 0.5MM TABS



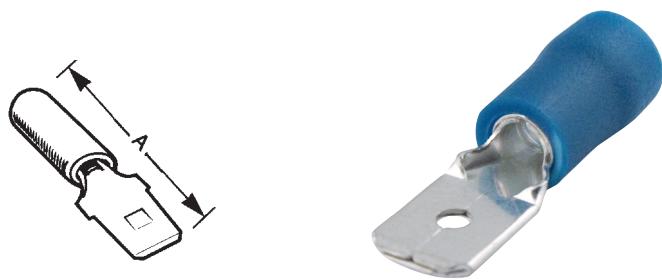
CAT NO.	DESCPT.	ILLUS. NO.	MATERIAL	THICKNESS	FINISH	LENGTH A mm	MAX INSUL. DIA. mm	WIRE SIZE mm	NOTES	TOOL NO.	
RQCSG4.8	H3559	1	Brass/PVC	0.40	ET	18.7	3.2	0.5-1.5	Red	#102/1 #76B/1	
RQCSG4.8F	H3563	2	Brass/PVC	0.35	ET	20.0	2.7	0.5-1.5	Red		
BQCSG4.8	H3565	1	Brass/PVC	0.40	ET	18.7	4.0	1.5-2.5	Blue		
BQCSG4.8F	H3566	2	Brass/PVC	0.35	ET	20.0	3.2	1.5-2.5	Blue		

## 6.3MM Q.C. RECEPTACLES TO SUIT 0.8MM TABS



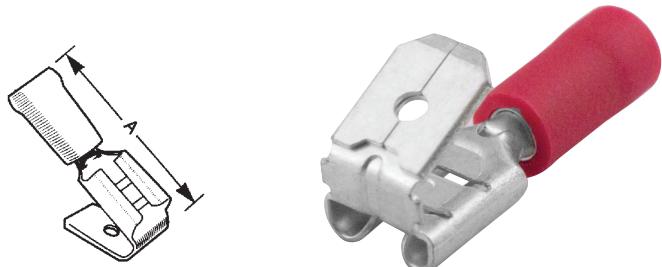
CAT NO	DESCP.	ILLUS. NO.	MATERIAL	THICKNESS	FINISH	LENGTH A mm	MAX INSUL. DIA. mm	WIRE SIZE mm	NOTES	TOOL NO.	
RQCSG6.3	H2594A	2	Brass/PVC	0.40	ET	20.5	3.2	0.5-1.5	Red	#76B/1 #102/1	
BQCSG6.3	H2595A	2	Brass/PVC	0.40	ET	20.5	4.3	1.5-2.5	Blue		
YQCSG6.3	H2596A	2	Brass/PVC	0.40	ET	24.6	4.3	2.5-6.0	Yellow		
RQCSG6.3L	H2594	1	Brass/PVC	0.40	ET	22.2	3.5	0.5-1.5	Red		
BQCSG6.3L	H2595	1	Brass/PVC	0.40	ET	23.8	4.3	1.5-2.5	Blue		
YQCSG6.3L	H2596	1	Brass/PVC	0.70	ET	25.4	6.0	2.5-6.0	Yellow		
RQCSG6.3F	H3560	3	Brass/PVC	0.70	ET	22.0	2.7	0.5-1.5	Red		
BQCSG6.3F	H3561	3	Brass/PVC	0.70	ET	22.0	3.2	1.5-2.5	Blue		
YQCSG6.3F	H3562	3	Brass/PVC	0.70	ET	25.0	3.8	2.5-6.0	Yellow		

## 6.3MM Q.C. TABS



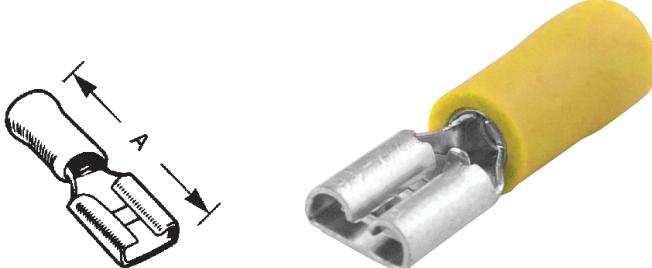
CAT NO.	DESCP.	MATERIAL	THICKNESS	FINISH	LENGTH A mm	MAX INSUL. DIA. mm	WIRE SIZE mm	NOTES	TOOL NO.	
RTSG6.3	H2844	Brass/PVC	0.805	ET	23.2	3.5	0.5-1.5	Red	#102/1 #76B/1	
BTSG6.3	H2845	Brass/PVC	0.85	ET	24.8	4.3	1.5-2.5	Blue		
YTSG6.3	H2846	Brass/PVC	0.80	ET	26.3	6.0	2.5-6.0	Yellow		

## 6.3MM ADAPTORS Q.C. PIGGY BACK



CAT NO.	DESCP.	MATERIAL	THICKNESS	FINISH	LENGTH A mm	MAX INSUL. DIA. mm	WIRE SIZE mm	NOTES	TOOL NO.	
RPBPSG6.3	H2847A	Brass/PVC	0.80	ET	22.2	3.5	0.5-1.5	Red	#102/1 #76B/1	
BPBPSG6.3	H2848A	Brass/PVC	0.85	ET	22.2	4.3	1.5-2.5	Blue		
YPBPSG6.3	H2849	Brass/PVC	0.80	ET	24.0	6.0	2.5-6.0	Yellow		

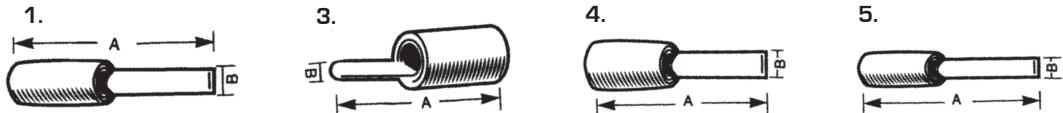
## 9.3MM Q.C. RECEPTACLE



CAT NO.	DESCP.	MATERIAL	FINISH	LENGTH A mm	MAX INSUL. DIA. mm	WIRE SIZE mm <sup>2</sup>	NOTES	TOOL NO.
YQC9.3	H2853A	Brass/PVC	ET	29.2	6.2	2.5-6.0	Yellow	#76B/1 #102/1

## LIP BLADE TERMINALS

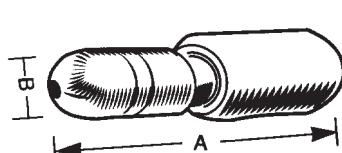
- Electro tinned finish
- Made from Copper with PVC insulation



CAT NO	DESCP.	ILLUS. NO.	THICKNESS	LENGTH A mm	WIDTH B mm	MAX INSUL. DIA. mm	WIRE SIZE mm	NOTES	TOOL NO.
RLB	H2736	1	0.7	24.8	3.0	3.5	0.5-1.5	Red	#102/1 #76B/1
BLB	H2737		0.7	26.8	3.0	3.7	1.5-2.5	Blue	
RLBSG	H2736A		0.8	27.7	3.0	3.5	0.5-1.5	Red	
BLBSG	H2737A		0.8	27.7	3.0	4.1	1.5-2.5	Blue	
YLBSG	H2738A		1.0	30.7	3.0	4.1	1.5-2.5	Yellow	
RLLBSG	H3916A	3	0.7	17.2	3.0	3.5	0.25-1.5	Lipless Miniature Blade	#102/1 #76B/1
BLLBSG	H3917A		0.7	18.0	3.0	4.3	0.6-3.0	Lipless Miniature Blade	
YLLBSG	H3918A		0.9	22.4	3.0	6.3	2.5-6.0	Lipless Miniature Blade	
RLLBSGL	H4107A	4	0.8	28.5	2.2	3.5	0.5-1.5	Lipless Long Blade	#102/1 #76B/1
BLLBSGL	H4108A		0.8	28.5	2.2	4.3	1.5-2.5	Lipless Long Blade	
RLBW	H4107		0.8	25.8	4.6	3.5	0.5-1.5	Red	
BLBW	H4108	5	0.8	25.8	4.6	4.3	1.5-2.5	Blue	#102/1 #76B/1
YLBW	H4109		0.8	30.3	4.6	6.3	2.5-6.0	Yellow	
RLBSGW	H4207		0.8	26.4	4.6	3.5	0.5-1.5	Red Supergrip	
BLBSGW	H4208	5	0.8	26.4	4.6	4.3	1.5-2.5	Blue Supergrip	#102/1 #76B/1
YLBSGW	H4209		0.8	30.8	4.6	6.3	2.5-6.0	Yellow Supergrip	

## BULLET TERMINAL

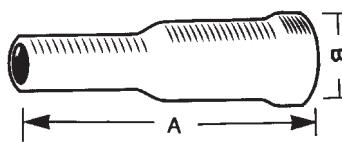
- Electro tinned finish



CAT NO.	DESCP.	MATERIAL	LENGTH A mm	LENGTH B mm	MAX INSUL. DIA. mm	WIRE SIZE mm <sup>2</sup>	NOTES	TOOL NO.
RBSG	H3919	Brass/PVC	20.2	4.0	3.5	0.5-1.5	Mates with H3922	#102/1 #76B/1
BBSG	H3920	Brass/PVC	20.7	5.0	4.3	1.5-2.5	Mates with H3923	

## BULLET RECEPTACLE

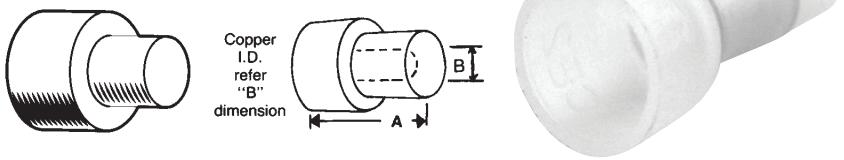
- Electro tinned finish



CAT NO.	DESCP.	MATERIAL	LENGTH A mm	LENGTH B mm	MAX INSUL. DIA. mm	WIRE SIZE mm <sup>2</sup>	NOTES	TOOL NO.
RBRSG	H3922	Brass/PVC	24.0	4.0	2.7	0.5-1.5	Mates with H3919	#102/1 #76B/1
BBRSG	H3923	Brass/PVC	25.0	5.0	3.2	1.5-2.5	Mates with H3920	

## CLOSED END PRE-INSULATED CABLE CONNECTORS

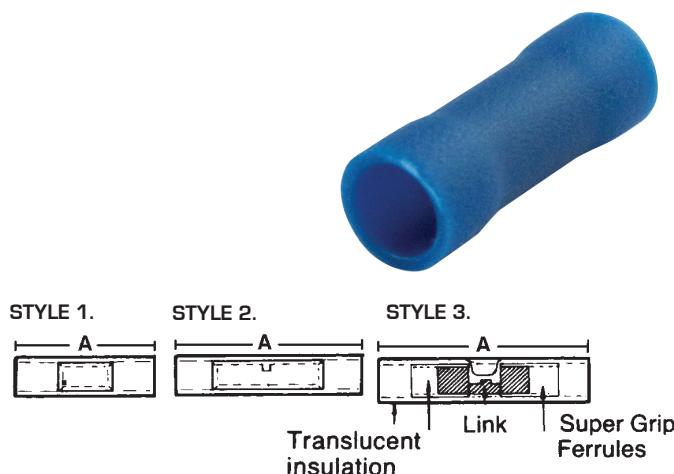
- Electro tinned to minimise corrosion
- Nylon insulation to maximise dielectric strength



CAT NO.	DESCP.	STRANDING METRIC	DIMENSIONS		TOOL NO.
			A mm	B mm	
CEC1	H349	2 x 24/0.20	15.1	2.08	
CEC2	H2023	2 x 24/0.20	21	3.3	
CEC5	H2026	2 x 50/0.25	27	4.5	
CEC1.5	H2047	2 x 32/0.20	15.2	2.5	
CEC2.5	H2048	2 x 32/0.20	18	3.7	
CEC4	H2050	2 x 32/0.20	19.1	3.35	
CEC8	H2049	5 x 32/0.20	30	5.0	

## PRE-INSULATED, SUPERGRIP CRIMP LINK CONNECTOR

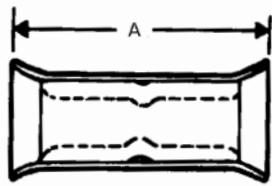
- Solid drawn Copper tube
- Electro tinned to minimise corrosion
- Centre dimple to ensure correct conductor traverse inside link
- Vinyl insulation
- **STYLE 1.** Parallel splice conductor area shown is total of two (or more) conductors to be connected parallel. Ideal for inline joints between uneven sized conductor – vinyl insulation.
- **STYLE 2.** Centre dimple to ensure correct conductor positions – vinyl insulation.
- **STYLE 3.** Supergrip butt splice with translucent insulation (to ensure correct conductor insertion) and depressed centre to enable use in appropriate ratchet crimp tool without removal of stopper.



CAT NO.	DESCP.	INSULATION	CONDUCTOR AREA mm	STYLE	DIMENSIONS	MAX INSUL. DIA. mm	TOOL NO.
RL	H2068	Red	0.5-1.5		13.0	3.5	
BL	H2069	Blue	1.5-2.5	1	13.0	4.0	#76B/1 #102/1
YL	H2070	Yellow	2.5-6.0		15.0	5.5	
RLD	H2071	Red	0.5-1.5		22.2	3.2	
BLD	H2072	Blue	1.5-2.5	2	25.4	4.0	#76B/1 #102/1
YLD	H2073	Yellow	2.5-6.0		27.0	5.5	
RLSG	H3910	Red	0.5-1.5		31.0	4.0	
BLSG	H3911	Blue	1.5-2.5	3	31.0	4.6	#76B/1 #102/1
YLSG	H3912	Yellow	2.5-6.0		41.0	6.2	

## HEAVY DUTY PRE-INSULATED CRIMP LINK CONNECTOR

- Seamless drawn Copper tube
- Black nylon insulated
- Centre dimple to help locate the conductor
- Electro tinned to minimise corrosion



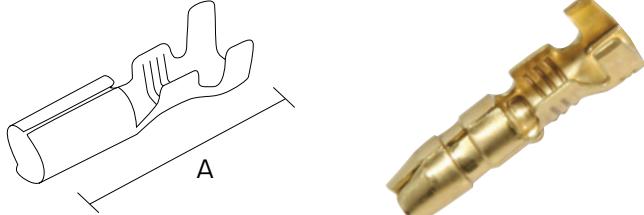
CAT NO.	DESCP.	STRANDING METRIC	DIMENSIONS A mm	MAX INSUL. DIA. mm	TOOL NO.
LHD2.5S	H2051	1/0.80-7/0.67	30.1	4.7	#76B/1
LHD2.5	H2067	7/0.67	30.1	4.7	
LHD4	H2052	7/0.67-7/0.85	32.3	6.4	
LHD6	H2053	7/1.04	29.0	8.3	
LHD10	H2054	7/1.35	29.0	8.3	

## LOOSE PIECE UN-INSULATED BRASS CONNECTORS

- BRASS Allowable connection temperature\* +110°C. Plain brass is used frequently, where applications have optimal environmental conditions.
- NICKEL SILVER Allowable connection temperature\* +200°C Nickel Silver is used in high temperature situations.
- \*Allowable connection temperature is the ambient temperature plus temperature rise of the terminal at normal operating conditions.
- Brass Connectors come in packets of 25 or 100. When ordering add suffix "/D25" or "/D100" to identify quantity required.
- Suffix 'B' denotes Nickel/Silver finish

## BULLET TERMINALS

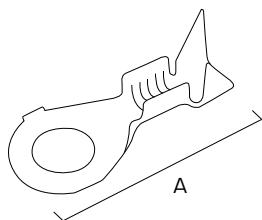
- Un-insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H2782	Brass	0.75-1.5	17	0.45	3.3	#61/1 #147A/1

## RING TERMINALS

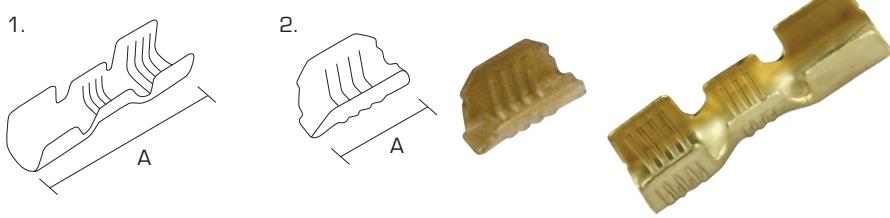
- Un-Insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	HOLE SIZE mm	TOOL NO.
H3931	Brass	0.4-1.0	17.5	0.5	3.5	4.2	#61/1 #147A/1
H1287	Brass	0.7-1.5	21.4	0.55	3.9	4.3	
H3932	Brass	0.4-1.0	17.5	0.5	3.5	5	
H1863	Brass	0.4-0.7	24.6	0.7	3.8	5.1	
H430	Brass	0.5-2.5	21.4	0.55	3.9	5.3	
H430B	Nickel/Silver	0.5-2.5	21.4	0.55	3.9	5.3	

## SPICE TERMINAL

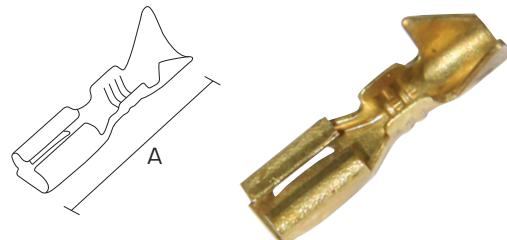
- Also known as Crimp Sleeves
- Un-insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	ILLUS. NO.	CONDUCTOR AREA mm <sup>2</sup>	LENGTH mm A	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H1859	Brass	1	1.5	17.4	0.45	3.0	#61/1
H1876	Brass	2	1.5	5.8	0.45	-	#61/1

## 2.3 Q.C. RECEPTACLE

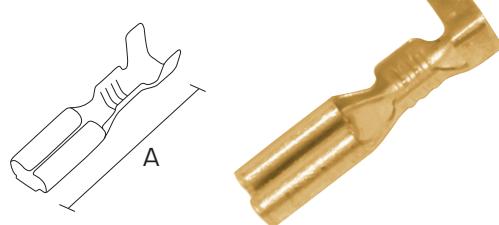
- Straight Micro
- Un-insulated
- Open Barrel
- 0.8mm Tab



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H1129	Brass	0.3-0.7	12.6	0.4	1.5 - 2.4	#147A/1

## 2.8 Q.C. RECEPTACLE

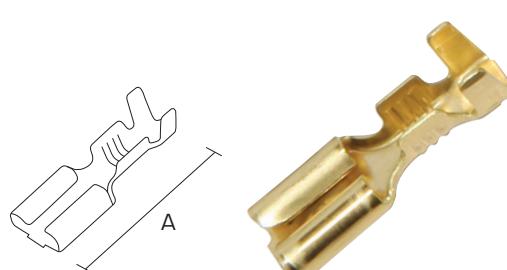
- Straight
- Un-insulated
- Open Barrel
- Fits Tab 0.5 - 0.8mm
- With Insulation support



CAT NO.	MATERIAL	TAB SIZE	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H25025	Brass	0.5	0.2-0.75	15.2	0.25	2.9	#147A/1

## 4.8 Q.C. RECEPTACLE

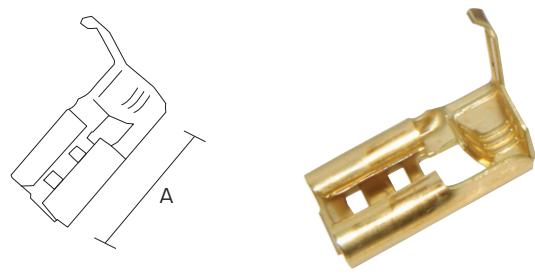
- Straight
- Un-insulated
- Open Barrel
- With Insulation support
- Fits Tab 0.5mm



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H1143	Brass	0.4-1.0	15.4	0.3	3.3	#61/1
H2590B	Nickel/Silver	0.4-1.0	15.4	0.4	3.3	#147A/1

#### 4.8 Q.C. FLAG TYPE RECEPTACLE

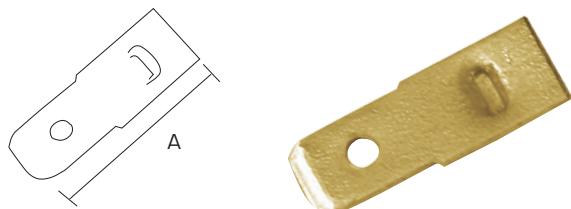
- Flag type to suit 0.5mm TAB
- Un-insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H1145	Brass	0.4-1.0	12.6	0.4	3.3	#147A/1

#### 4.8 Q.C. ADAPTOR WELD TYPE

- To suit 0.5mm TAB
- Un-insulated
- Flat



CAT NO.	MATERIAL	LENGTH A mm	THICKNESS mm	NOTES
H1979A	Brass	13.4	0.5	Weld Type Tab Flat

#### 6.3 Q.C. RECEPTACLE

- Straight
- Un-insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH mm A	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H1971	Brass	0.4-0.8	19.8	0.45	2.8	#61/1
H1972	Brass	0.7-2.1	19.8	0.45	2.8	#147A/1
H1972B	Nickel/Silver	0.7-2.1	19.8	0.45	2.8	

#### 6.3 Q.C. TUBED RECEPTACLE

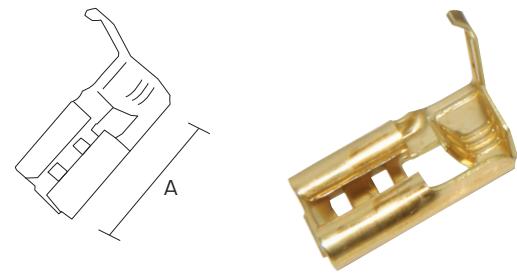
- Straight
- Un-insulated
- Pre-formed crimp



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH mm A	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H953	Brass	0.7-2.1	19.8	0.45	3.5	#61/1
H953B	Nickel/Silver	0.7-2.1	19.8	0.45	3.5	

### 6.3 Q.C. FLAG TYPE RECEPTACLE

- Flag type
- Un-insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.	
H1191	Brass	0.7-21	15.1	0.45	3.8	#147A/1	
H1191B	Nickel/Silver	0.7-21	15.1	0.45	3.8		
H2592B	Nickel/Silver	1.0-3.0	15.8	0.45	4.3		
H2593B	Nickel/Silver	0.6-1.6	14.2	0.45	4.0		

### 6.3 CRIMP STYLE Q.C. TAB

- Un-insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H1192	Brass	0.7-2.1	19.8	0.08/0.04	3.7	#61/1 #147A/1
H1192B	Nickel/Silver	0.7-2.1	19.8	0.8/0.4	3.7	

### 6.3 PIGGY BACK Q.C. RECEPTACLE

- Un-insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSUL. DIA. mm	TOOL NO.
H2833B	Nickel/Silver	1-1.5	19.6	0.4	3.9	#61/1, #147A/1

### PLUG & SOCKET WITH PLASTIC HOUSING

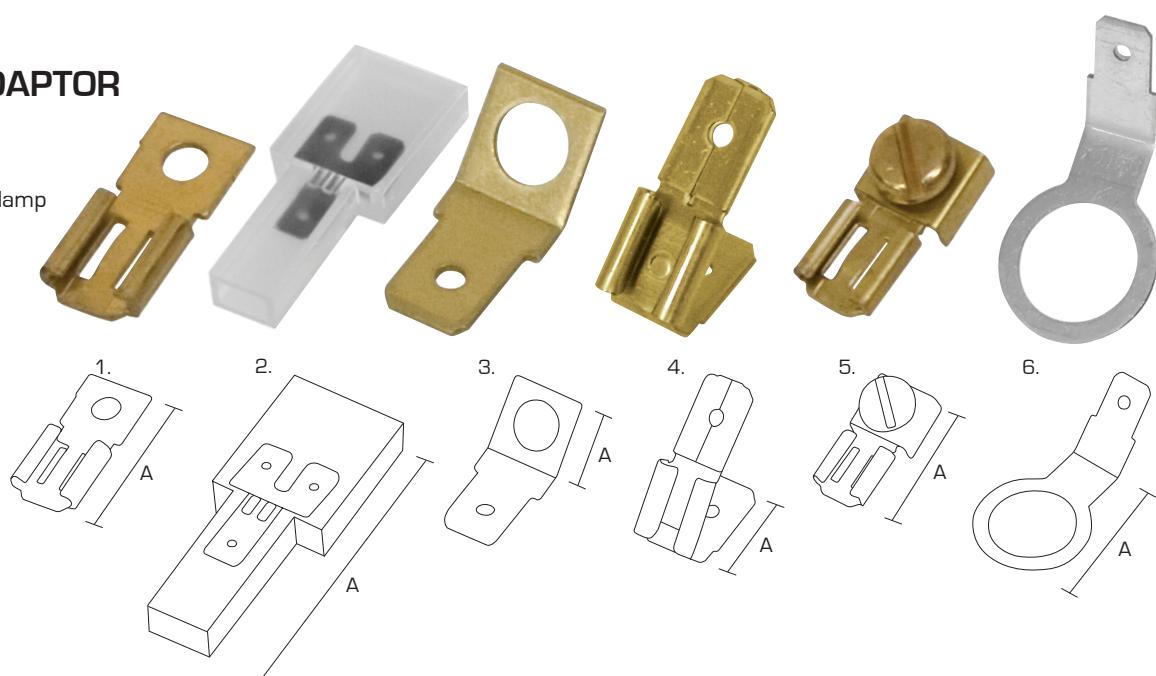
- Comes with receptacle and tab
- 6.3 Lanceless QC terminals
- Brass Material



CAT NO.	CONNECTIONS	RECEPTACLE CONDUCTOR AREA mm <sup>2</sup>	TOOL NO.	
5-1700011-6	1 Way	0.5-2.0	#61/1	
5-1700011-9	2 Way	0.5-2.0		
6-1700011-0	3 Way	0.5-2.0		
6-1700011-1	4 Way	0.5-2.0		
6-1700011-2	6 Way	0.5-2.0		
6-1700011-3	8 Way	0.5-2.0		

### 6.3 Q.C. ADAPTOR

- Un-insulated
- Mounting Hole
- Screw Cable Clamp



CAT NO.	MATERIAL	ILLUS. NO.	LENGTH A mm	THICKNESS mm	NOTES
H955	Brass	1	17.5	0.7	3.3mm hole, Flat
H1158	Brass	2	50	0.8	Insulated adaptor, 20.4mm wide - Tee Tab
H1168	Brass	3	8.7	0.8	4.9mm hole, 45 degree angle
H1169	Brass	3	9.5	0.8	4.9mm hole, 90 degree angle
H1909	Brass	4	19	0.8	Tab - Receptacle - Tab
H1909B	Nickel/Silver	4	19	0.8	Tab - Receptacle - Tab
H1954	Brass	5	17.4	0.8	M4 Screw, Clamp - Receptacle
H3578	Brass	4	22.3	0.8	8.4mm hole, screw type, 45 degree angle
H3579	Brass	6	22.3	0.8	12.3mm hole, screw type, 45 degree angle

### LANCED Q.C. FOR LANCED CONNECTORS

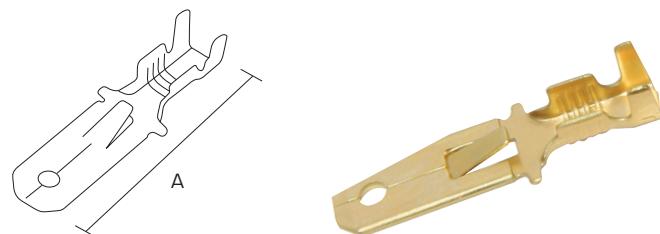
- Un-Insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSU. DIA. mm	TOOL NO.
H3555	Brass	0.6-1.5	19.8	0.3	3.9	#61/1, #147A/1

### 6.3 Q.C. LANCED TAB

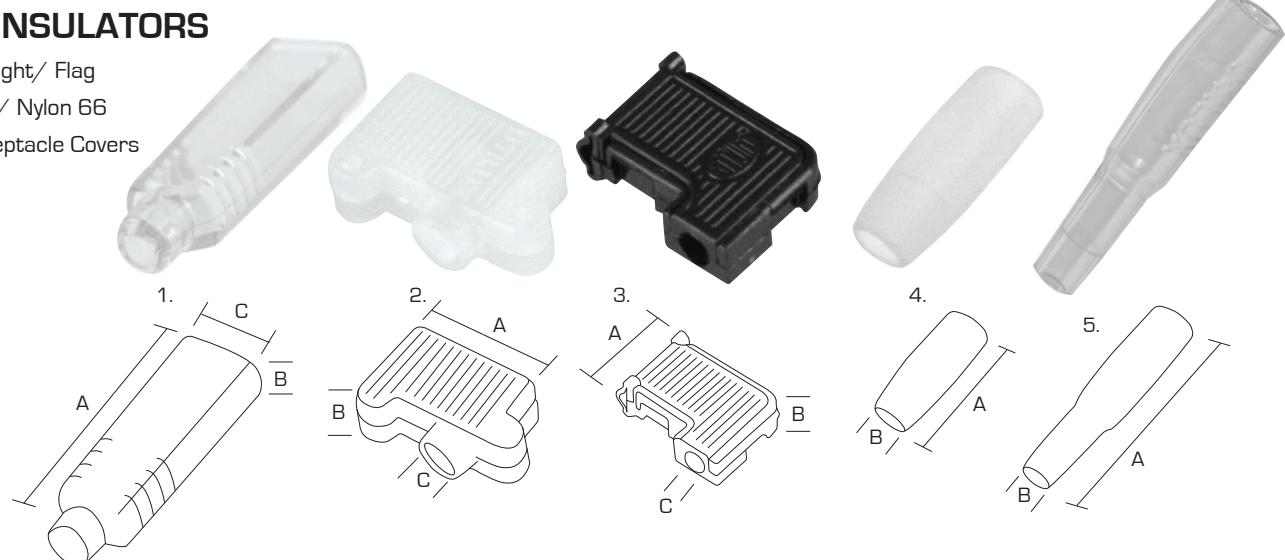
- Un-Insulated
- Open Barrel
- With Insulation support



CAT NO.	MATERIAL	CONDUCTOR AREA mm <sup>2</sup>	LENGTH A mm	THICKNESS mm	MAX INSU. DIA. mm	TOOL NO.
H2832	Brass	0.7-2.1	24.5	0.4	3	#61/1, #147A/1

## Q.C. INSULATORS

- Straight/ Flag
- PVC/ Nylon 66
- Receptacle Covers



CAT NO.	ILLUS. NO.	TO FIT	DIMENSIONS mm			TYPE	COLOUR	MATES TO
			A	B	C			
H1135	1	-	27.8	5.5	9.5	6.3 Straight Receptacle	Natural	Straight 6.3 Receptacle
H2094	2	H1145	14.2	6.8	4.7	4.8 Flag Post Fit	Natural	Book Type
H2095	3	H2592	10.0	6.4	4.4	6.3 High Temp, Flag Post Fit	Black Nylon 66	-
H2805	4	Tabs or Receptacles	14	3.5	-	Straight	Natural PVC	H2806
H2806	5	H2743	33.0	4.6	-	6.3 Straight	Natural PVC	H2805
H2809	3	H1191	17.5	13.6	5.0	6.3 Flag Post Fit	Nylon 66 Black	2 wire 6.3 Straight Receptacle
H2818	3	H1191	17.5	13.6	5.0	6.3 Flag Post Fit	Nylon Clear	-

## DURASEAL - HEATSHRINKABLE CRIMP CONNECTOR

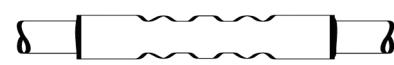
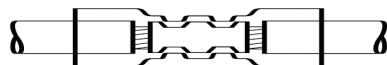
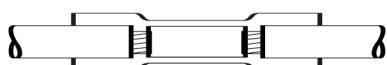
- Used for wire to wire splicing
- Heatshrinkable
- Environmentally sealed from water, condensation, salt and corrosion
- Completely insulate and protect electrical connections
- Adhesive lining for protection that is more reliable than conventional splices and is UL, CUL and Lloyd's listed



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	COLOUR	PACK SIZE
D4060001	0.38-0.95	Red	20 and 100
D4060002	1.2-2.5	Blue	20 and 100
D4060003	3-6	Yellow	20 and 100

### INSTALLATION IS FAST AND SIMPLE

1. Select splice of appropriate size, Stripwire 7.5mm, Insert into crimp barrel
2. Crimp connector as outlined below, ensure conductor ends are captured
3. Heat crimped splice with heat gun until tubing recovers and adhesive flows



## TK-22 - ELECTRICAL TERMINAL KIT

- 1405 mixed supergrip terminals for 240V/415V applications
- Quality ratchet crimping tool (#102/1)
- Tough metal carry case

## KIT CONTENTS

CAT NO.	DESCRIPTION	QUANTITY
H2594A	6.3mm QC Receptacle Red	50
H2595	6.3mm QC Receptacle Blue	100
H2596A	6.3mm QC Receptacle Yellow	50
H2844	6.3mm QC Tab Red	50
H2845	6.3mm QC Tab Blue	100
H2848A	6.3mm QC Piggy Back Adaptor	50
H3560	6.3mm QC Receptacle Red	50
H3561	6.3mm QC Receptacle Blue	50
H3562	6.3mm QC Receptacle Yellow	40
H3563	4.8mm QC Receptacle Red	50
H3910	Window Crimp Link Red	50
H3911	Window Crimp Link Blue	50
H3912	Window Crimp Link Yellow	25
H4213	4.3mm Supergrip Ring Terminal Red	100
H4215	5.3mm Supergrip Ring Terminal Red	100
H4218	6.4mm Supergrip Ring Terminal Red	80
H4223	4.3mm Supergrip Ring Terminal Blue	100
H4225	5.3mm Supergrip Ring Terminal Blue	70
H4234	6.4mm Supergrip Ring Terminal Yellow	40
H4523	4.3mm Supergrip Fork Terminal Blue	100
H4514	4.0mm Spade Connector	100
#102	Crimping Tool	1

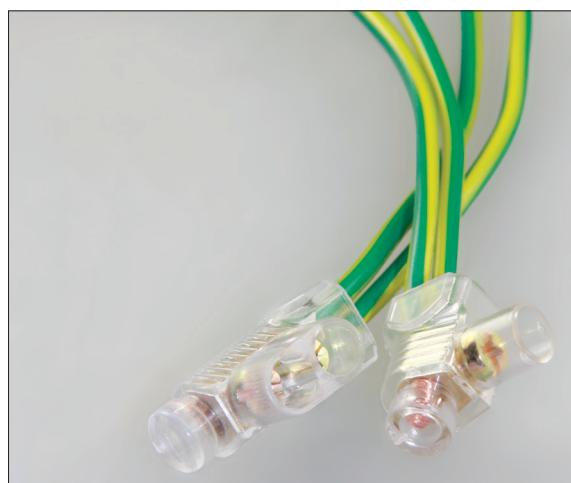


## INSULATED SCREW CONNECTORS

Heavy duty insulated screw connectors available in single and double screw design (double screw product for earth). Will accommodate up to 2x6mm<sup>2</sup> conductors and are rated for normal 230/240V applications. The clear plastic housing allows for a visual check of the termination.

- Nominal rating: 32amp
- Material: Brass connections, PVC body/housing

CAT NO.	DESCRIPTION	PACK SIZE
SC1	Single 32A Screw Connector	100
SC2	Double 32A Screw Connector	50



## COPPER LUGS & LINKS

This range of Utilux Lugs and Links is generally designed for standard metric building cable conforming to AS1125-174. However other types of cable can be used with the correct crimping procedures. The range covers a variety of products including links with solid barriers for oil filled conductor and Sealed Copper Lugs for paper insulated conductors. With over 80 years of experience Utilux has engineered the correct combination of material thickness and crimp die selection

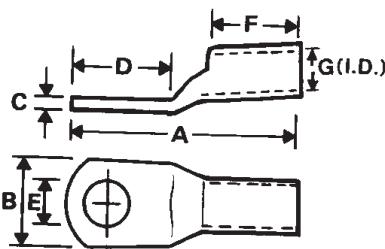
to ensure that the optimum compression ratios are achieved when crimping. Annealing also ensures that connectors can be crimped without damage and electro tinning minimises corrosion. These features combined with correct termination procedures will ensure a connection that will perform for many years. Please refer to your local Technical Sales Engineer for crimping recommendations or for further information.

LUG STYLE	CONDUCTOR RANGE	PAGE
Copper Crimp Lug	2.5-1000mm <sup>2</sup>	24
Copper Flared Lug (Bellmouth)	25-185mm <sup>2</sup>	26
Narrow Palm Circuit Breaker Lug	35-300mm <sup>2</sup>	27
Sealed Copper Crimp Lug	25-630mm <sup>2</sup>	28
Cable Lug Solder Type	10-240mm <sup>2</sup>	29
Heavy Duty Copper Lugs	16-120mm <sup>2</sup>	29
Long Palm Long Barrel Copper Crimp Lugs	25-630mm <sup>2</sup>	30
Bolted Cable Lug	4-500mm <sup>2</sup>	31
LINK STYLE	CONDUCTOR RANGE	PAGE
Copper Crimp Link	0.5-1000mm <sup>2</sup>	32
Copper Crimp Link Solid Barrier	10-630mm <sup>2</sup>	33
Copper Reducing Link	16-300mm <sup>2</sup>	34
C Connector	6-630mm <sup>2</sup>	35
STALK TYPE CRIMP	CONDUCTOR RANGE	PAGE
Copper Stalk Lug Type 1	35-185mm <sup>2</sup>	36
Copper Stalk Lug Type 2	16-95mm <sup>2</sup>	36

## COPPER CRIMP LUGS

- Suitable for Copper conductor
- Range 0.5-1000mm<sup>2</sup> Seamless Copper tube
- Electro tinned Cable area clearly identified on the lug

Tested to AS/NZS 4325.1:1995



CAT NO.	CONDUCTOR AREA mm <sup>2</sup>	STRANDING METRIC	STUD E	DIMENSIONS mm					NO. OF CRIMPS (TOOL NO.)	CRIMPING DIE	
				A	B	C	D	F			
CG05M4	0.5/1.5	1/0.80	M4	17.5	6.4	1.4	9.5	6.0	2.1	-	-
CG05M4			M4	19.1	6.4	1.4	11.1	6.0	2.1	1	-
CG05SM5			M5	19.1	8.7	1.0	11.1	6.0	2.1	1	-
CG05LM5			M5	26.6	8.7	1.0	15.1	9.5	2.1	2	-
CG05M6			M6	26.2	10.3	0.9	15.1	9.5	2.1	2	-
CG05M8			M8	26.2	11.1	0.8	15.1	9.5	2.1	2	-
CG2.5M4			M4	21.4	9.1	1.1	11.9	8.0	2.5	2	-
CG2.5M5			M5	21.4	9.1	1.1	11.9	8.0	2.5	2	-
CG2.5M6			M6	26.2	10.3	0.9	15.1	8.7	2.5	2	-
CG2.5M8			M8	26.2	10.3	0.9	15.1	8.7	2.5	2	-
CG4SM5	2.5	7/0.67	M5	21.0	8.7	1.5	11.1	8.0	3.3	2	-
CG4LM5			M5	27.3	8.7	1.5	14.7	9.2	3.3	2	-
CG4M6			M6	27.8	10.3	1.2	15.1	9.5	3.3	2	-
CG4M8			M8	28.6	13.0	1.0	13.3	9.5	3.3	2	-
CG4M10			M10	28.6	13.0	1.0	16.3	9.5	3.3	2	-
CG6M6			M6	27.0	10.3	1.2	15.0	9.5	3.7	-	-
CG6M8			M8	28.6	13.9	0.9	16.7	9.5	3.7	-	-
CG6M10			M10	28.6	13.9	0.9	16.7	9.5	3.7	-	-
CG10SM6			M6	27.0	11.9	1.8	15.5	9.5	4.7	-	-
CG10LM6			M6	29.4	11.9	1.8	15.5	11.5	4.7	-	-
CG10M8	10	7/1.35	M8	28.6	14.3	1.6	16.3	9.5	4.7	-	-
CG10M10			M10	30.6	14.3	1.6	16.3	9.5	4.7	-	-
CG10M12			M12	33.0	17.0	1.4	20.0	11.0	4.7	-	-
CG16M5			M5	39.7	11.6	2.3	16.3	20.6	5.5	-	-
CG16M6	16	7/1.70	M6	39.7	11.6	2.3	16.3	20.6	5.5	-	-
CG16M8			M8	39.7	13.5	1.9	16.3	20.6	5.5	-	-
CG16M10			M10	41.5	13.5	1.9	18.5	20.6	5.5	-	-
CG16M11			M11	43.6	16.7	2.8	19.0	22.2	5.5	-	-
CG16M12			M12	46.0	17.5	1.4	20.5	19.0	5.5	-	-
CG20M6			M6	34.9	13.5	2.2	19.0	20.3	6.3	-	-
CG20M8			M8	42.1	14.3	2.0	19.0	20.3	6.3	-	-
CG20M10			M10	42.1	15.2	1.9	19.0	20.3	6.3	-	-
CG20M12			M11	42.1	16.7	2.2	19.0	22.0	6.3	-	-
CG25M6	25	19/1.35	M6	43.6	16.7	2.2	19.0	22.0	7.1	-	-
CG25M8			M8	43.6	16.7	1.9	19.0	22.0	7.1	-	-
CG25M10			M10	43.6	16.7	1.9	19.0	22.0	7.1	-	-
CG25M11			M11	43.6	18.2	1.7	25.4	21.0	7.1	-	-
CG25M12			M12	51.0	18.2	1.7	25.4	21.0	7.1	-	-

\* All sizes of crimp lugs are compatible with imperial size cables except those marked

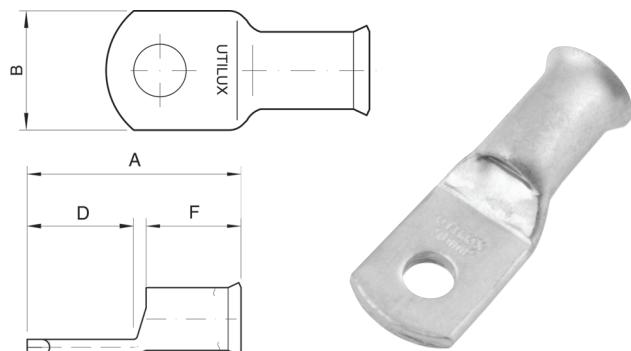
CAT NO.	CONDUCTOR AREA mm <sup>2</sup>	CONDUCTOR STUD SIZE	E	DIMENSIONS mm							NO. OF CRIMPS (TOOL NO.)				CRIMPING DIE
				A	B	C	D	F	G	21	22	38A	40B		
CG35M6			M6	43.6	18.2	2.7	19.0	22.2	8.4	2	2	1	-		
CG35M8	35	19/153	M8	43.6	18.2	2.7	19.0	22.2	8.4	2	2	1	-	1#38-92CU	
CG35M10			M10	43.6	18.2	2.7	19.0	22.2	8.4	2	2	1	-		
CG35M11	38	7/0.104	M11	51.6	19.0	3.7	27.0	22.2	8.7	2	2	1	-	1#38-104CU	
CG35M12	35	19/1.53	M12	51.2	20.0	2.4	24.5	22.0	8.4	2	2	1	-	1#38-92CU	
CG50M8			M8	51.6	18.2	3.1	27.0	22.2	9.5	2	2	1	-		
CG50M10	50	19/1.78	M10	51.6	19.0	3.0	27.0	22.2	9.5	2	2	1	-	1#38-104CU	
CG50M12			M12	51.6	20.6	2.8	27.0	22.2	9.5	2	2	1	-		
CG70M6			M6	54.0	20.6	3.2	27.0	23.0	11.0	-	2	1	-		
CG70M8			M8	54.0	20.6	3.2	27.0	23.0	11.0	-	2	1	-	1#38-115CU	
CG70M10			M10	54.0	20.6	3.2	27.0	23.0	11.0	-	2	1	-		
CG70M11	70	19/2.14	M11	54.0	22.2	4.7	27.0	23.0	11.2	-	2	1	-	1#38-130CU	
CG70M12			M12	54.0	20.6	3.2	27.0	23.0	11.0	-	2	1	-	1#38-115CU	
CG70M16			M16	54.2	27.5	2.4	27.0	22.0	11.0	-	2	1	-		
G70M20			M20	76.0	28.6	3.5	45.0	25.4	11.0	-	-	1	1	1#38-142CU	
CG95M6			M6	57.2	25.4	4.0	27.0	27.0	13.4	-	2	1	1		
G95M8			M8	57.2	25.4	4.0	27.0	27.0	13.4	-	2	1	1		
CG95M10			M10	57.2	25.4	4.0	27.0	27.0	13.4	-	2	1	1	1#38-142CU	
CG95M12	95	37/1.78	M12	57.2	25.4	4.0	27.0	27.0	13.4	-	2	1	1	1#40-142CU	
CG95M16			M16	75.5	27.0	3.7	45.0	25.4	13.4	-	2	1	1		
CG95M20			M20	75.5	28.6	3.5	45.0	25.4	13.4	-	2	1	1		
CG120M10			M10	68.3	30.0	4.8	31.8	31.0	15.5	-	2	2	1		
CG120M12			M12	68.3	30.0	4.8	31.8	31.0	15.5	-	2	2	1	1#38-165CU	
CG120M16	120	37/2.03	M16	68.3	30.0	4.8	31.8	31.0	15.5	-	2	2	1	1#40-165CU	
CG120M20			M20	68.3	30.0	4.8	31.8	31.0	15.5	-	2	2	1		
CG150M10*			M10	75.0	33.5	5.4	41.3	27.0	16.3	-	-	2	1		
CG150M12*	150	37/2.25	M12	75.0	33.5	5.4	41.3	27.0	16.3	-	-	2	1	1#38-183CU	
CG150M16*			M16	75.0	33.5	5.4	41.3	27.0	16.3	-	-	2	1	1#40-185CU	
CG150M20*			M20	75.0	33.5	5.4	41.3	27.0	16.3	-	-	2	1		
CG185M10			M10	79.0	36.5	5.2	41.3	31.0	18.4	-	-	2	1		
CG185M12			M12	79.0	36.5	5.2	41.3	31.0	18.4	-	-	2	1	1#38-200CU	
CG185M16	185	37/2.52	M16	79.0	36.5	5.2	41.3	31.0	18.4	-	-	2	1	1#40-200CU	
CG185M20			M20	79.0	36.5	5.2	41.3	31.0	18.4	-	-	2	1		
CG240MB*			MB	127.0	41.6	7.1	54.0	47.6	21.2	-	-	3	1		
CG240M10*			M10	127.0	41.6	7.1	54.0	47.6	21.2	-	-	3	1		
CG240M12*	240	61/2.25	M12	127.0	41.6	7.1	54.0	47.6	21.2	-	-	3	1	1#38-231CU	
CG240M16*			M16	127.0	41.6	7.1	54.0	47.6	21.2	-	-	3	1	1#40-231CU	
CG240M20*			M20	127.0	41.6	7.1	54.0	47.6	21.2	-	-	3	1		
CG300MB			MB	127.0	46.0	7.9	54.0	47.6	23.8	-	-	3	1		
CG300M16	300	61/2.52	M16	127.0	46.0	7.9	54.0	47.6	23.8	-	-	3	1	1#38-260CU	
CG300M20			M20	127.0	46.0	7.9	54.0	47.6	23.8	-	-	3	1	1#40-260CU	
CG400MB			MB	123.0	49.6	7.9	54.0	41.3	26.9	-	-	-	1		
CG400M16	400	61/2.85	M16	123.0	49.6	7.9	54.0	41.3	26.9	-	-	-	1	1#40-281CU	
CG400M20			M20	123.0	49.6	7.9	54.0	41.3	26.9	-	-	-	1		
CG500MB			MB	142.5	54.8	8.2	54.0	55.5	30.0	-	-	-	2		
G500M16	500	61/3.20	M16	142.5	54.8	8.2	54.0	55.5	30.0	-	-	-	2	1#40-310CU	
CG500M20			M20	142.5	54.8	8.2	54.0	55.5	30.0	-	-	-	2		
CG630MB*	630	127/2.52	MB	146.0	63.5	11.5	54.0	58.0	33.5	-	-	-	2	1#40-370CU	
CG800MB	800	127/2.85	MB	275.0	75.0	14.0	127.0	105.0	39.3	-	-	-	3	1#40-432CU	
CG1000MB	1000	127/3.20	MB	295.0	85.0	16.0	125.0	110.0	44.0	-	-	-	3	1#40-480CU	

\* All sizes of crimp lugs are compatible with imperial size cables except those marked

## COPPER FLARED LUGS (BELLMOUTH)

The Utilux range of flared Copper lugs has been designed with the barrel entry flared to enable an easy insertion of multi stranded cables (flexible cable).

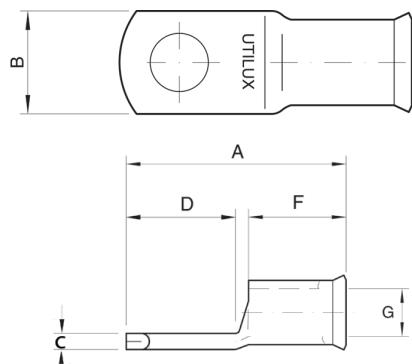
The range of connectors (from 25mm<sup>2</sup> to 185mm<sup>2</sup>) will ensure most applications for common flexible cable sizes are covered. Flared Copper lugs are made from seamless Copper tube, electro tin plated and have the cable area clearly marked on the palm of the lug. The inspection window on the barrel provides a check that the cable has been fully inserted. The flared lugs can be crimped with the standard range of Utilux tooling and hexagonal dies.



CAT NO.	CONDUCTOR AREA mm <sup>2</sup>	STRANDING METRIC	STUD SIZE	DIMENSIONS mm				NO. OF CRIMPS (TOOL NO.)				CRIMPING DIE
				A	B	D	F	21	22	38A	40B	
CG25FLM6	25	209/0.40	M6	44	17	19	22	2	2	1	-	1#38-77CU
CG25FLM8		209/0.40	M8	44	17	19	22	2	2	1	-	
CG25FLM10		209/0.40	M10	44	17	19	22	2	2	1	-	
CG25FLM12		209/0.40	M12	44	17	19	22	2	2	1	-	
CG35FLM6	35	285/0.40	M6	44	18	19	22	2	2	1	-	1#38-92CU
CG35FLM8		285/0.40	M8	44	18	19	22	2	2	1	-	
CG35FLM10		285/0.40	M10	44	18	19	22	2	2	1	-	
CG35FLM12		285/0.40	M12	44	18	19	22	2	2	1	-	
CG50FLM8	50	380/0.40	M8	52	21	27	22	2	2	1	-	1#38-104CU
CG50FLM10		380/0.40	M10	52	21	27	22	2	2	1	-	
CG50FLM12		380/0.40	M12	52	21	27	22	2	2	1	-	
CG70FLM6	70	203/0.67	M6	54	21	27	23	-	2	1	-	1#38-115CU
CG70FLM8		203/0.67	M8	54	21	27	23	-	2	1	-	
CG70FLM10		203/0.67	M10	54	21	27	23	-	2	1	-	
CG70FLM12		203/0.67	M12	54	21	27	23	-	2	1	-	
CG95FLM6	95	259/0.67	M6	57	25	27	27	-	2	1	-	1#38-142CU
CG95FLM8		259/0.67	M8	57	25	27	27	-	2	1	-	
CG95FLM10		259/0.67	M10	57	25	27	27	-	2	1	-	
CG95FLM12		259/0.67	M12	57	25	27	27	-	2	1	-	
CG120FLM10	120	336/0.67	M10	68	30	32	31	-	2	2	1	1#38-165U
CG120FLM12		336/0.67	M12	68	30	32	31	-	2	2	1	
CG120FLM16		336/0.67	M16	68	30	32	31	-	2	2	1	
CG150FLM12	150	427/0.67	M12	75	34	32	27	-	-	2	1	1#38-183CU
CG150FLM16		427/0.67	M16	75	34	32	27	-	-	2	1	
CG185FLM12	185	518/0.67	M12	79	34	32	31	-	-	2	1	1#38-200CU
CG185FLM16		518/0.67	M16	79	34	32	31	-	-	2	1	

## NARROW PALM - CIRCUIT BREAKER LUGS

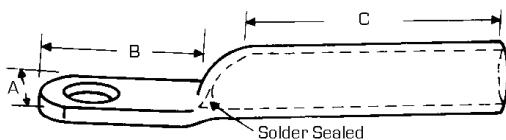
- Specially made for terminating large cables to circuit breakers
- Unique bell mouth for easy insertion of fine stranded conductors
- Made from 99.9%+ high conductivity Copper



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STUD SIZE	DIMENSIONS mm						NO. OF CRIMPS (TOOL NO.)				CRIMPING DIE
			A	B	C	D	F	G	21	22	38A	40B	
CGNP35M6	35	M6	44	15	2.7	15	21	8.4	2	2	1	-	1#38-92CU
CGNP50M6	50	M6	52	15	3.0	15	22	9.5	2	2	1	-	1#38-104CU
CGMP50M10		M10	52	19	3.0	21	22	9.5	2	2	1	-	
CGNP70M6	70	M6	54	17	3.2	15	24	11.0	-	2	1	-	1#38-115CU
CGNP70M10		M10	54	19	3.2	21	24	11.0	-	2	1	-	
CGNP95M8	95	M8	57	19	4	17	27	13.4	-	2	1	-	1#38-142CU
CGNP95M10		M10	57	19	4	21	27	13.4	-	2	1	-	
CGNP120M8	120	M8	68	19	4.8	23	30	15.5	-	2	2	1	1#38-165CU
CGNP120M10		M10	68	19	4.8	23	30	15.5	-	2	2	1	
CGNP150M8	150	M8	75	19	5.4	27	30	16.3	-	-	2	1	1#38-183CU
CGNP150M10		M10	75	19	5.4	27	30	16.3	-	-	2	1	
CGNP185M10	185	M10	79	31	5.2	32	32	18.4	-	-	2	1	1#38-200CU
CGNP240M10	240	M10	127	31	7.1	32	38	21.2	-	-	3	1	1#38-231CU
CGNP240M12		M12	127	31	7.1	32	38	21.2	-	-	3	1	
CGNP300M10	300	M10	127	31	7.9	32	42	23.8	-	-	3	1	1#38-260CU
CGNP300M12		M12	127	31	7.9	32	42	23.8	-	-	3	1	

## SEALED COPPER CRIMP LUGS

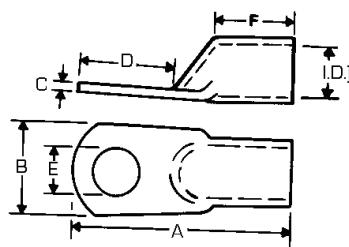
- Long barrel length for effective heat shrink sealing
- Designed for outdoor terminations
- Solder sealed
- Impervious to air at 140kPa min



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STRANDING METRIC	STUD SIZE	DIMENSIONS mm			CRIMPING DIE
				A	B	C	
SEG25M8	25	7/2.14-19/1.354	M8	14.7	19	29	1#38-77CU
SEG25M10			M10	16.7	19	29	
SEG35M8			M8	18.2	19	35	
SEG35M10	35	19/1.53	M10	18.2	19	35	1#38-92CU
SEG35M12			M12	20.0	24.5	35	
SEG50M10	50	19/1.78	M10	19.0	27	38	1#38-104CU
SEG50M12			M12	20.6	27	38	
SEG70M10	70	19/2.14	M10	20.6	27	43	1#38-115CU
SEG70M12			M12	20.6	27	43	
SEG95M10	95	19/2.52	M10	25.4	27	53	1#38-142CU
SEG95M12			M12	25.4	27	53	
SEG120MB			MB	30.0	31.8	62	
SEG120M10	120	37/2.03	M10	30.0	31.8	62	1#38-165CU
SEG120M12			M12	30.0	31.8	62	
SEG120M16			M16	30.0	31.8	62	
SEG150M12	150	37/2.25	M12	33.5	41.3	67	1#38-183CU
SEG150M16			M16	33.5	41.3	67	
SEG185M12	185	37/2.52	M12	36.5	41.3	77	1#38-200CU
SEG185M16			M16	36.5	41.3	77	
SEG240MB	240	61/2.25	MB	41.6	54	86	1#38-231CU 1#40-231CU
SEG240M12			M12	41.6	54	86	
SEG300MB	300	61/2.52	MB	46.0	54	95	1#38-260CU
SEG300M16			M16	46.0	54	95	
SEG400MB	400	61/2.85	MB	49.6	54	98	1#40-281CU
SEG400M16			M16	49.6	54	98	
SEG500MB	500	61/3.20	MB	54.8	54	98	1#40-310CU
SEG500M20			M20	54.8	54	98	
SEG630MB	630	127/2.52	MB	63.5	54	98	1#40-370CU
SEG630M20			M20	63.5	54	98	

## CABLE LUG SOLDER TYPE

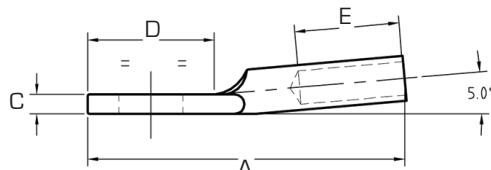
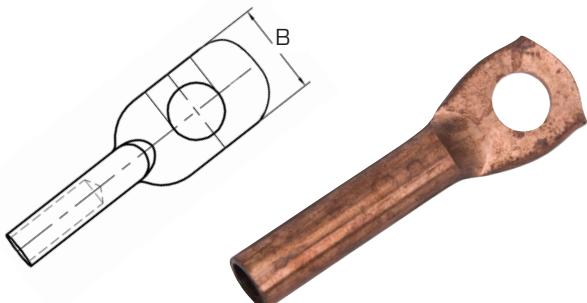
- Solid drawn Copper tube
- Electro tinned
- Alternative sizes made to order
- Not recommended for crimping
- Bright acid tin finish for easy solderability



CAT NO.	MAX AREA mm <sup>2</sup>	NOMINAL AMPS FOR CU CABLE	STUD SIZE	A	B	C	D	E	F	I.D.
SG10M5	10	75	M5	28.6	8.9	1.8	8.9	8.9	9.5	4.5
SG16M6	16	99	M6	38.6	11.9	1.6	16	16.0	17.0	6.1
SG35M8	25-35	155	M8	38.1	16.0	1.8	16.5	16.5	12.7	9.3
SG50M10	50	250	M10	44.5	18.5	2.4	20.5	20.5	15.9	10.3
SG70M10	70	310	M10	56.0	23.1	3.3	27.5	27.5	17.9	12.6
SG95M12	95-120	375	M12	68.0	28.0	3.3	33.5	33.5	20.6	15.8
SG120MB	95-120	435	MB	79.5	33.0	3.3	36.0	36.0	22.2	19.0
SG120M16	150	435	M16	79.5	33.0	3.3	36.0	36.0	22.2	19.0
SG150M20	185	570	M20	85.7	37.6	4.0	36.0	36.0	28.6	21.3
SG185M20	240-300	680	M20	106.5	46.5	5.3	48.0	48.0	37.0	26.5

## HEAVY DUTY COPPER LUGS

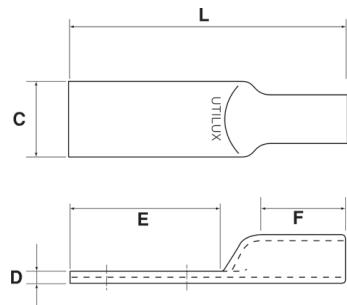
Manufactured from solid Copper bar, these Copper lugs are designed for use in high fault current potential areas.



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STUD SIZE	A	B	C	D	E	A/F mm	CRIMPING DIE
TNTCU16-8	16	M8	80	22	4.5	32	30	9.2	1#38-92CU
TNTCU16-10		M10	80	22	4.5	32	30	9.2	
TNTCU16-12		M12	80	22	4.5	32	30	9.2	
TNTCU25-10	25	M10	80	22	4.5	32	30	9.2	1#38-104CU
TNTCU25-12		M12	80	22	4.5	32	30	9.2	
TNTCU35-10	35	M10	80	22	4.5	32	31	10.4	1#38-115CU
TNTCU35-12		M12	80	22	4.5	32	31	10.4	
TNTCU50-10	50	M10	80	25	5	32	33	10.4	1#38-142CU
TNTCU50-12		M12	80	25	5	32	33	10.4	
TNTCU70-10	70	M10	90	27	6	38	36	11.5	
TNTCU70-12		M12	90	27	6	38	36	11.5	
TNTCU95-10	95	M10	100	36	6.5	42	40	14.2	
TNTCU95-12		M12	100	36	6.5	42	40	14.2	

## LONG PALM LONG BARREL COPPER LUGS

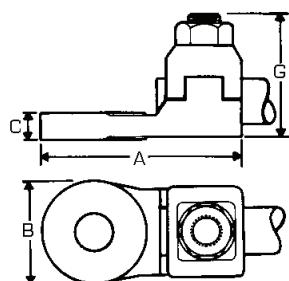
- Long barrel length for effective heat shrink sealing
- No inspection window
- Uses same crimp tools as standard Copper lugs



CAT NO.	CONDUCTOR SIZE	DIMENSIONS mm					CRIMPING DIE
		C	D	E	F	L	
CG16LPMB	16	13	1.9	70	40	114	1#38-63CU
CG25LPMB	25	17	1.9	70	40	115	1#38-77CU
CG35LPMB	35	18	2.7	90	45	140	1#38-92CU
CG50LPMB	50	21	2.8	100	50	160	1#38-104CU
CG70LPMB	70	21	3.2	100	50	160	1#38-115CU
CG95LPMB	95	25	4.0	100	50	160	1#38-142CU
CG120LPMB	120	30	4.8	100	50	160	1#38-165CU
CG150LPMB	150	34	5.4	100	50	170	1#38-183CU
CG185LPMB	185	37	5.4	100	55	170	1#38-200CU
CG240LPMB	240	42	7.1	110	90	190	1#38-231CU
CG300LPMB	300	46	7.9	110	90	190	1#40-260CU
CG400LPMB	400	50	7.9	110	70	210	1#40-281CU
CG500LPMB	500	55	8.2	110	70	210	1#40-310CU
CG630LPMB	630	64	11.5	100	70	205	1#40-370CU

## BOLTED CABLE LUGS

- Quick and easy termination
- Re-usable
- Palms are machined flat and parallel for maximum conductivity
- Copper alloy

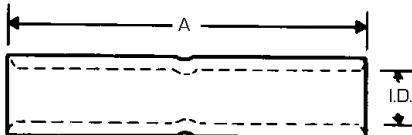


CAT NO.	GENERIC CODE	CONDUCTOR SIZE mm <sup>2</sup>	NON FLEXIBLE CONDUCTOR	STUD SIZE	A	B	C	G
H1801/1	NO.1	4-10	7/.085 7/1.04 7/1.35	M6	34	14	5.5	17
H1802/1	NO.2	16	7/1.70	M8	44	19	5.5	23
H1803/1 H1803A/1 H1803X01/1	NO.3	25-35	7/2.14 19/1.53	M10 M12 M12	53	25	5.5	27
H1804/1	NO.4	50-70	19/1.78 19/2.14	M12	60	32	6.4	34
H1804C/1*	NO.4C	50-70	19/1.78 19/2.14	M12	60	32	6.4	34
H1805/1	NO.5	95	37/1.78	M12	65	32	7.9	38
H1806A/1	NO.6	120	37/2.03	M16	76	38	8.7	45
H1806/1	NO.6	150-185	37/2.25 37/2.52	M16	76	38	8.7	45
H1807/1	NO.7	185-240	61/2.25	M20	86	44	10.3	53
H1808/1	NO.8	300-400	61/2.52 61/2.85	M20	98	51	12.7	63
H1809/1	NO.9	500	61/3.20	M20	100	48	13.5	70

\*Slot 12mm wide instead of bolt hole

## COPPER CRIMP LINKS

- Solid drawn Copper tube
- Centre dimples
- Ends reamed

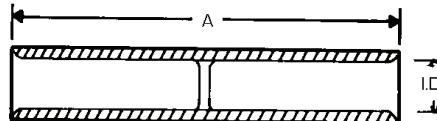


CAT NO.	CONDUCTOR AREA mm <sup>2</sup>	STRANDING METRIC	DIMENSIONS mm		NO. OF CRIMPS (TOOL NO.)					CRIMPING DIE
			A	I.D.	00	18	21	22	38A	
CK0.5	0.5-1.5	1/0.80	22	21	2	-	-	-	-	-
CK2.5	2.5	7/0.67	22	2.5	2	-	-	-	-	-
CK4	4	7/0.85	22	3.3	2	1	-	-	-	-
CK6	6	7/1.04	22	3.7	2	1	2	2	1	1#38-44CU
CK10	10	7/1.35	22	4.7	2	1	2	2	1	1#38-57CU
CK16	16	7/1.70	44	5.5	-	3	2	2	1	1#38-63CU
CK20	20	19/0.044	44	6.3	-	-	2	2	1	1#38-70CU
CK25	25	19/1.35	48	7.1	-	-	2	2	1	1#38-77CU
CK35	35	19/1.53	48	8.4	-	-	2	2	1	1#38-92CU
CK50	50	19/1.78	48	9.5	-	-	2	2	1	1#38-104CU
CK70	70	19/2.14	51	11.0	-	-	-	2	1	1#38-115CU
CK95	95	37/1.78	54	13.4	-	-	-	2	1	1#38-142CU
CK120	120	37/2.03	65	15.5	-	-	-	2	2	1#38-165CU
CK150	150	37/2.25	65	16.3	-	-	-	-	2	1#38-183CU
CK185	185	37/2.52	65	18.4	-	-	-	-	2	1#38-200CU
CK240	240	61/2.25	89	21.2	-	-	-	-	3	1#38-231CU
CK300	300	61/2.52	89	23.8	-	-	-	-	3	1#38-260CU
CK400	400	61/2.85	89	26.8	-	-	-	-	-	1#40-281CU
CK500	500	61/3.20	114	30.0	-	-	-	-	-	2#40-310CU
CK630*	630	127/2.52	114	33.5	-	-	-	-	-	2#40-370CU
CK800	800	127/2.85	230	39.3	-	-	-	-	3	1#40-432CU
CK1000	1000	127/3.20	230	43.8	-	-	-	-	3	1#40-480CU

\* All sizes of crimp links are compatible with imperial size cables except those marked

## COPPER CRIMP LINKS - WITH SOLID BARRIER

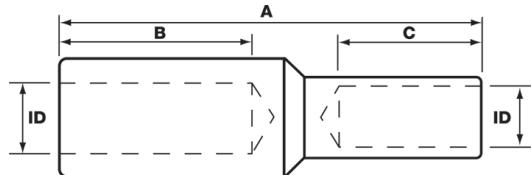
- For use with oil filled cables
- Solid drawn Copper rod
- Electro tinned
- Solid centre barriers
- Ends reamed
- Excellent as water barrier



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STRANDING METRIC	DIMENSIONS mm		NO. OF CRIMPS [TOOL NO.]				CRIMPING DIE
			A	I.D.	21	22	38A	40B	
CKB10	10	7/1.35	48	4.7	2	2	1	-	1#38-57CU
CKB16	16	7/1.70	44	5.5	2	2	1	-	1#38-63CU
CKB20	20	7/2.14	44	6.7	2	2	1	-	1#38-74CU
CKB25	25	19/1.35	48	7.1	2	2	1	-	1#38-77CU
CKB35	35	19/1.53	48	8.4	2	2	1	-	1#38-92CU
CKB50	50	19/1.78	54	9.5	2	2	1	-	1#38-104CU
CKB70	70	19/2.14	51	11.0	-	2	1	-	1#38-115CU
CKB95	95	37/1.78	54	13.4	-	2	1	1	1#38-142CU
CKB120	120	37/2.03	65	15.5	-	2	2	1	1#38-165CU
CKB150	150	37/2.25	65	16.3	-	-	2	1	1#38-183CU
CKB185	185	37/2.52	65	18.4	-	-	2	1	1#38-200CU
CKB240	240	61/2.25	76	21.2	-	-	3	1	1#38-231CU
CKB300	300	61/2.52	76	23.8	-	-	3	1	1#38-260CU
CKB400	400	61/2.85	89	26.8	-	-	-	1	1#40-281CU
CKB500	500	61/3.20	145	30.0	-	-	-	2	1#40-310CU
CKB630	630	127/2.52	145	33.5	-	-	-	2	1#40-370CU

## COPPER REDUCING LINKS

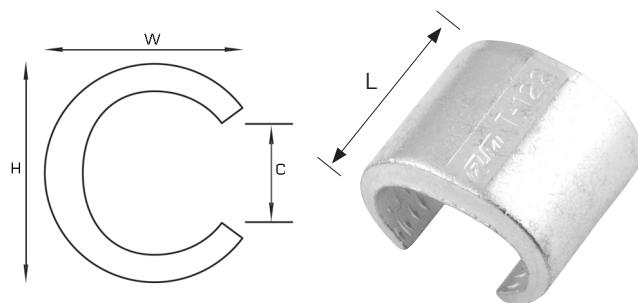
- Solid drawn Copper rod
- Electro tin plated
- Stock sizes shown
- Custom sizes to order
- Crimp with standard Utilux hex dies



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	LARGE END			CRIMPING DIE	SMALL END		
		A	B	I.D.		C	I.D.	CRIMPING DIE
CKR16-6	16-6	55	27	5.5	1#38-36CU	28	3.7	1#38-44CU
CKR16-10	16-10	55	27	5.5		28	4.5	1#38-57CU
CKR25-6	25-6	56	27	7.2		29	3.7	1#38-44CU
CKR25-10	25-10	56	27	7.2	1#38-77CU	29	4.5	1#38-57CU
CKR25-16	25-16	56	28	7.2		29	5.5	1#38-63CU
CKR35-10	35-10	56	27	8.5		29	4.5	1#38-57CU
CKR35-16	35-16	56	28	8.5	1#38-92CU	29	5.5	1#38-63CU
CKR35-25	35-25	56	28	8.5		28	7.2	1#38-77CU
CKR50-16	50-16	58	28	9.5		30	5.5	1#38-63CU
CKR50-25	50-25	58	28	9.5	1#38-104CU	30	7.2	1#38-77CU
CKR50-35	50-35	58	29	9.5		30	8.5	1#38-92CU
CKR70-25	70-25	58	28	11		30	7.2	1#38-77CU
CKR70-35	70-35	58	29	11	1#38-115CU	30	8.5	1#38-92CU
CKR70-50	70-50	58	29	11		30	9.5	1#38-104CU
CKR95-35	95-35	75	29	13.5		46	8.5	1#38-92CU
CKR95-50	95-50	75	29	13.5	1#38-142CU	46	9.5	1#38-104CU
CKR95-70	95-70	75	30	13.5		46	11	1#38-115CU
CKR120-50	120-50	75	29	15		46	9.5	1#38-104CU
CKR120-70	120-70	75	30	15	1#38-165CU	46	11	1#38-115CU
CKR120-95	120-95	88	44	15		44	13.5	1#38-142CU
CKR150-70	150-70	77	30	16.5		48	11	1#38-115CU
CKR150-95	150-95	90	44	16.5	1#38-183CU	46	13.5	1#38-142CU
CKR150-120	150-120	90	44	16.5		46	15	1#38-165CU
CKR185-95	185-95	90	44	18.5		46	13.5	1#38-142CU
CKR185-120	185-120	90	44	18.5	1#38-200CU	46	15	1#38-165CU
CKR185-150	185-150	90	45	18.5		45	16.5	1#38-183CU
CKR240-120	240-120	98	44	21.5		54	15	1#38-165CU
CKR240-150	240-150	98	45	21.5	1#38-231CU 1#40-231CU	53	16.5	1#38-183CU
CKR240-185	240-185	98	45	21.5		53	18.5	1#38-200CU
CKR300-150	300-150	98	45	24	1#38-260CU	53	16.5	1#38-183CU
CKR300-185	300-185	98	45	24	1#40-260CU	53	18.5	1#38-200CU
CKR300-240	300-240	101	50	24		51	21.5	1#38-231CU

## 'C' CONNECTORS

- 'C' Connectors are manufactured in 'C' shaped Copper section for connection of main and tap Copper conductors
- Reliability is ensured by passing tests specified by JIS C2810
- Suitable for connecting Copper conductors in both indoor and outdoor applications such as earth grid connections
- Tin plated
- Other sizes available on request (366-700mm<sup>2</sup>)



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	DIMENSIONS mm				CRIMPING DIE	INSULATING COVER
		H	W	L	C		
ZT11/1	7.5-11	9	6	12	4	ZT11DIE/1	-
ZT16/1	11.5-16	12	8	13	5	ZT16DIE/1	-
ZT20/1	14-20	13	10	13	5	ZT20DIE/1	ZT20COVER/1
ZT26/1	21-26	15	11	16	6	ZT26DIE/1	ZT26COVER/1
ZT44/1	27-44	19	14	20	8	ZT44DIE/1	ZT44COVER/1
ZT60/1	45-60	21	15	22	10	ZT60DIE/1	ZT60COVER/1
ZT76/1	61-76	24	17	22	11	ZT76DIE/1	ZT76COVER/1
ZT98/1	77-98	28	19	25	14	ZT98DIE/1	ZT98COVER/1
ZT122/1	99-122	30	21	26	13	ZT122DIE/1	ZT122COVER/1
ZT154/1	123-154	34	24	28	17	ZT154DIE/1	ZT154COVER/1
ZT190/1	155-190	37	25	35	17	ZT190DIE/1	ZT190COVER/1
ZT240/1	191-240	40	28	40	19	ZT240DIE/1	ZT240COVER/1
ZT288/1	241-288	45	31	45	22	ZT288DIE/1	ZT288COVER/1
ZT365/1	289-365	48	34	50	24	ZT365DIE/1	ZT365COVER/1

### CONNECTOR SELECTION CHART

MAIN CONDUCTOR mm <sup>2</sup>	TAP CONDUCTOR mm <sup>2</sup>															
	2.5	4	6	10	16	20	25	35	50	70	95	120	150	185	240	300
6	11	11	16													
10	16	16	16													
16	20	20	26	26	44											
20	26	26	26	44	44	44										
25	44	44	44	44	44	60	60									
35	44	44	44	60	60	60	60	76								
50	60	60	60	60	76	76	76	98	122							
70	76	76	76	98	98	98	98	122	122	154						
95	98	122	122	122	122	122	122	154	154	190	190					
120	154	154	154	154	154	154	154	190	190	190	240	240				
150	154	154	190	190	190	190	190	190	240	240	288	288	365			
185	190	190	240	240	240	240	240	240	240	288	288	365	365	450		
240			288	288	288	288	288	288	365	365	365	365	450	450	560	
300			365	365	365	365	365	365	450	450	450	450	450	560	560	700
400								450	450	560	560	560	560	700	700	700
500								560	560	700	700	700	700	700		
630								700	700	700						



## ALUMINIUM LUGS & LINKS

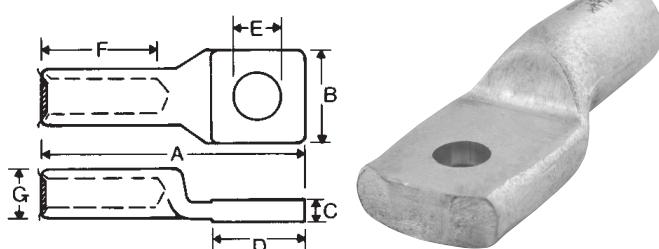
Utilux Aluminium Lugs and Links are manufactured from high conductivity Aluminium. The lugs are forged to maximise conductivity and strength and also eliminate any moisture seepage. Sector lugs and links are manufactured from a high quality extruded Aluminium. Markings are used to clearly identify the cable

to be used, die combination and crimping sequence. Hexagonal crimping is generally recommended for lugs and links equal to or greater than 25mm<sup>2</sup>. Care should be taken in the preparation of Aluminium conductors to ensure proper scratch brushing and inhibiting compound is applied.

LUG STYLE	CONDUCTOR RANGE	PAGE
Unilug for Aluminium Cables	6-630mm <sup>2</sup>	38
LINK STYLE	CONDUCTOR RANGE	PAGE
Unilink Aluminium	6-800mm <sup>2</sup>	39
JOINTING COMPOUND STYLE		PAGE
Electrical Jointing Compound		39

## UNILUG FOR ALUMINIUM CABLES

- 99.9% pure high conductivity Aluminium
- Forged from solid Aluminium billets
- Solid palm, therefore eliminating the ingress of moisture
- Pre-filled with joining compound
- Individually packed in sealed plastic bags

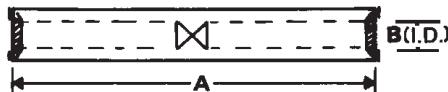


CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STRANDING METRIC	STUD SIZE	DIMENSIONS mm						CRIMPING DIE
				A	B	C	D	F	G	
AG6MB/1 AG6M/1	6	7/1.04	MB M6	54	18	5	22	32	3.5	1#38-90AL
AG10MB/1 AG10M/1	10	7/13.5	MB M6	65	22	5	22	32	4.5	
AG16MB/1 AG16M10/1	16	7/1.70	MB M10	65	22	5	22	32	5.5	
AG25MB/1 AG25M10/1	25	1/2.14 19/1.35	MB M10	65	22	5	22	32	7.0	
AG35MB/1 AG35M10/1	35	19/1.53	MB M10	65	22	5	22	32	8.5	1#38-132AL
AG50MB/1 AG50M10/1	50	19/1.78	M8 M10 M12	73	36	7	28	32	9.5	
AG70MB/1 AG70M10/1 AG70M12/1	70	19/2.14	MB M10 M12	73	26	8	28	32	11.0	
AG95MB/1 AG95M10/1 AG95M12/1	95	19/2.52 37/1.78	MB M10 M12	80	30	10	35	32	13.0	1#38-173AL 1#40-172AL
AG150MB/1 AG120M10/1 AG120M12/1	120	37/2.03	MB M10 M12	80	30	10	35	32	15.0	
AG150MB/1 AG150M10/1 AG150M12/1 AG150M16/1	150	37/2.25	MB M12 MB16	90	36	11	36	30	16.5	1#38-220AL 1#40-220AL
AG185MB/1 AG185M12/1 AG185M16/1	185	37/2.52	MB M12 MB16	90	36	11	36	30	18.5	
AG240MB/1 AG240M12/1 AG240M16/1	240	61/2.25	MB M12 MB16	115	46	12	50	41	21.0	1#38-284AL 1#40-263AL
AG300MB/1 AG300M12/1 AG300M16/1	300	61/2.52	MB M12 MB16	115	46	12	50	41	23.5	
AG400MB/1 AG500M12/1 AG500M16/1	400	61/2.85	MB M12 MB16	150	54	15	54	68	26.5	1#40-390AL
AG400MB/1 AG500M12/1 AG500M16/1	500	61/3.20	MB M12 MB16	150	54	15	54	68	29.5	
AG630MB/1 AG630M16/1	630	127/2.52	MB M16	159	60	15	60	68	33.5	1#40-432AL

\*Stud size "MB" means blank palm. 800-1000mm<sup>2</sup> tube Aluminium Crimp  
Lugs made to approved minimum order quantities only.

## UNILINK FOR ALUMINIUM CABLES

- Solid barrier
- High conductivity Aluminium
- Pre-filled with jointing compound
- Individually packed in sealed plastic bags



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STRANDING METRIC	DIMENSIONS mm A B		CRIMPING DIE
AK6/1	6	7/1.04	70	3.5	
AK10/1	10	7/1.35	70	4.5	1#38-90AL
AK16/1	16	7/1.70	70	5.5	
AK25/1	25	7/2.14 - 19/1.35	70	7.0	
AK35/1	35	19/1.53	70	8.5	
AK50/1	50	19/1.78	70	9.5	
AK70/1	70	19/2.14	70	11.0	1#38-132A
AK95/1	95	19/2.52 - 37/1.78	124	13.0	1#38-173AL
AK120/1	120	37/2.03	124	15.0	1#40-172AL
AK150/1	150	37/2.25	124	16.5	
AK185/1	185	37/2.52	124	18.5	1#38-220AL
AK240/1	240	61/2.25	124	21.0	1#40-220AL
AK300/1	300	61/2.52	124	23.5	1#38-284AL
AK400/1	400	61/2.85	146	26.5	1#40-283AL
AK500/1	500	61/3.20	146	29.5	
AK630/1	630	127/2.52	146	33.5	1#40-390AL
AK800/1	800	127/2.85	260	38.5	1#40-432AL

\*Larger sizes available, subject to approved quantities

## ELECTRICAL JOINTING COMPOUND

- Recommended for Aluminium connections
- Zinc particles in H2397 penetrates oxide films that form on the Aluminium surface
- Seals out air and moisture, therefore minimising oxidation or corrosion and maximising conductivity
- High melt point grease



A13

H2397/1

CAT NO.	DESCRIPTION	COLOUR	TUBE SIZE
H2398/1	COPPER JOINTING COMPOUND, SECUROL	CLEAR	250G
H2397/1	ALI JOINTING COMPOUND ALUMINOX WITH ZINC PARTICLES	GREY	225G
A13	ALI & BIMETAL JOINTING COMPOUND WITH ZINC PARTICLES	GREY	80Z



# MECHANICAL CONNECTORS

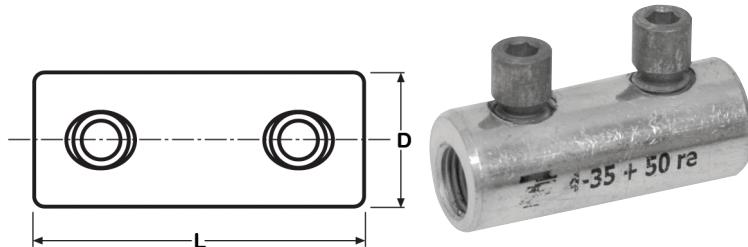
TransNet's range of mechanical connectors have many uses. They enable you to minimise your stock holding as they are range taking. These units can be used on Aluminium and Copper conductors.

The technology needed for each installation varies so TransNet is able to offer several alternatives ranging from Clamp type, Insulation Piercing and Shearbolt type.

CONNECTORS	PAGE
HEL – Hellstern LV Shearbolt Connectors	42
BCNE – Combined Neutral & Earth Connectors for Waveform C.N.E. Conductors	42
HEL – Brass Shearbolt Connector for AL or CU Conductors up to 1kV	43
BTC – Brass Tunnel Connectors up to 1kV	43
UST – Universal Straight Connector up to 1kV	43
UBR – Universal Branch Connector up to 1kV	44
UBRxxSBD – Universal Branch Connector with double service takeoffs up to 1kV	44
USBxxD – Universal Service Branch Connector with double service takeoffs up to 1kV	45
USTxxSBD – Universal Straight Connector with double service takeoffs up to 1kV	45
Rising Mains Connectors	46
IPC – Insulation Piercing Connectors	46
BET – Brass End Termination Heavy Duty Brass Shearbolt Lug	46
BLMT – Mechanical Lugs for applications up to 36kV	47
BSMB – Mechanical Connectors for applications up to 36kV	48
BSMB – Mechanical Reducing Connectors for applications up to 36kV	48
APPLICATION TOOLING	PAGE
Mechanical Connector Holding Tool	50
Cordless Impact Wrench	50

## HELLSTERN LV SHEARBOLT CONNECTORS FOR AL OR CU CONDUCTORS UP TO 1KV

- Blocked connector (solid barrier in centre of barrel)
- Constructed from electro tinned high strength Al-Alloy with electro tinned brass bolts
- Suitable for Cu or Al (solid or stranded) conductors up to 185mm<sup>2</sup>
- Voltage Class up to 1kV

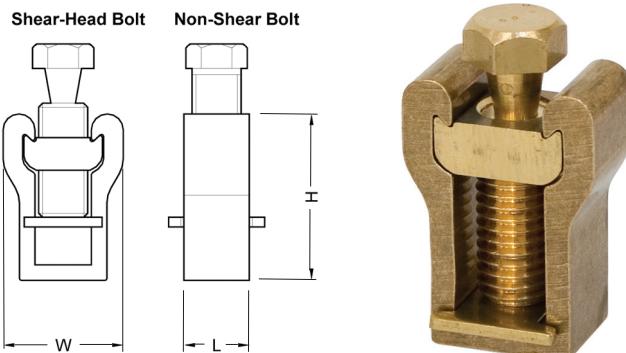


CAT NO.	DIMENSIONS mm		INSTALLATION TOOL	SIZE RANGE mm <sup>2</sup>			ROUND STRANDED	ROUND SOLID
	L	D		SECTOR STRANDED	SECTOR SOLID			
HEL-4897-T-Z-AK	40	16	4mm ALLEN KEY	4-35	4-35	4-35	4-35	4-35
HEL-4896-Z-AK	55	25	5mm ALLEN KEY	25-70	35-95	6-70	6-95	
HEL-4893-Z-AK	80	32	6mm ALLEN KEY	25-185	35-185	35-185	35-185	10-95

## COMBINED NEUTRAL & EARTH CONNECTORS FOR WAVEFORM C.N.E. CONDUCTORS

These connectors are designed for jointing the combined neutral and earth conductors of waveform CNE cable.

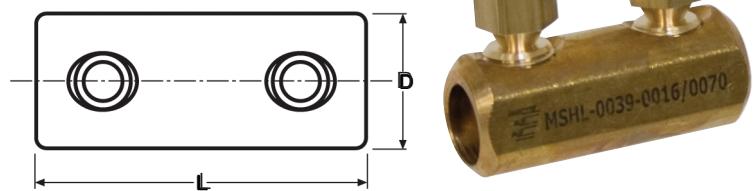
- Manufactured from brass
- Supplied with Shear head bolts
- Suitable for Cu conductors
- Range taking up to 240mm<sup>2</sup>
- Designed to meet BS4579 Part 1 & Part 3
- Meets engineering recommendation C79



CAT NO.	CROSS SECTIONAL RANGE mm <sup>2</sup>	SUITABLE CONDUCTOR TYPE	DIMENSIONS mm			CONTACT BOLTS HEAD SIZE A/F mm
			W	L	H	
BCNE-1S	4-125	COPPER	30	16	41	13
BCNE-3S	125-240	COPPER	29	16	50	13

## BRASS SHEARBOLT CONNECTOR FOR AL OR CU CONDUCTORS UP TO 1KV

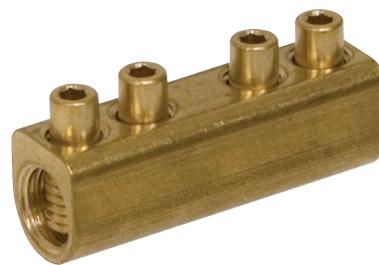
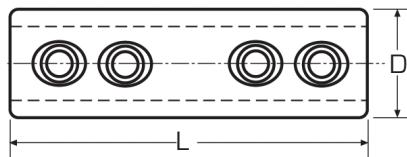
- Suitable for Al or Cu conductors when used with resin joints
- Designed to meet the requirements of BS4579 Part 1 and Part 3 and engineering recommendation C79
- Can be installed under live working conditions (following suitable procedures)



CAT NO.	DESCRIPTION	DIMENSIONS mm		INSTALLATION TOOL	CABLE SIZE RANGE mm <sup>2</sup>
		L	D		
HEL-4892	BRASS SHEARBOLT CONNECTOR UNBLOCKED	40	17	10mm SOCKET	16-70

## BTC – BRASS TUNNEL CONNECTORS UP TO 1KV

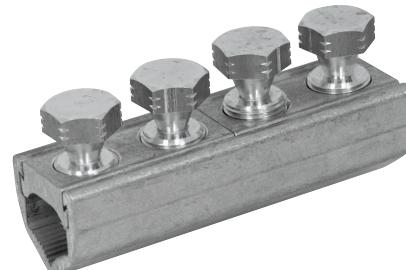
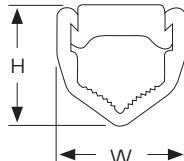
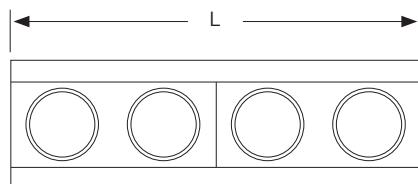
- These connectors are composed of a brass body with brass bolts
- Suitable for Al and Cu conductors
- Shear type bolts with Allen key head



CAT NO.	DESCRIPTION	DIMENSIONS mm		INSTALLATION TOOL	CABLE SIZE RANGE mm <sup>2</sup>
		L	D		
BAH-022040052	BRASS TUNNEL CONNECTOR	45	14	3mm ALLEN	4-50

## UST – UNIVERSAL STRAIGHT CONNECTOR UP TO 1KV

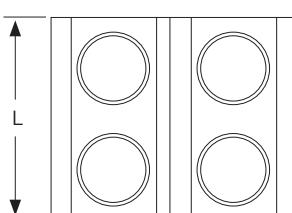
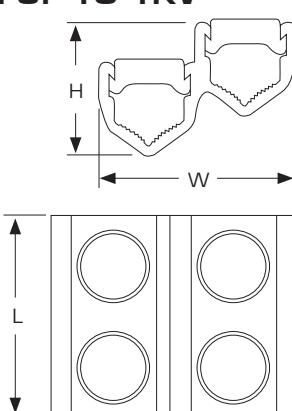
- Connector composed of an Aluminium alloy body with Aluminium alloy bolts
- Suitable for Al and Cu conductors when used with resin joints
- Designed to meet the requirements of BS4579 Part 1 and Part 3 and engineering recommendation C79



CAT NO.	DESCRIPTION	L	H	W	APPLICATION TOOL	CABLE SIZE RANGE mm <sup>2</sup>
UST95	UNIVERSAL STRAIGHT CONNECTOR	80	25	25	13mm SOCKET	35-95
UST185	UNIVERSAL STRAIGHT CONNECTOR	108	32	34	19mm SOCKET	35-185
UST300	UNIVERSAL STRAIGHT CONNECTOR	108	36	40	19mm SOCKET	70-300

## UBR – UNIVERSAL BRANCH CONNECTOR UP TO 1KV

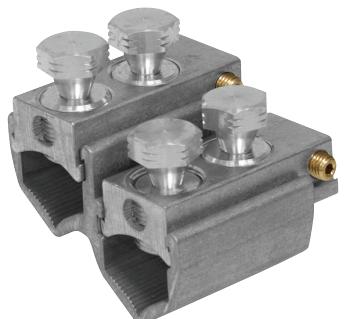
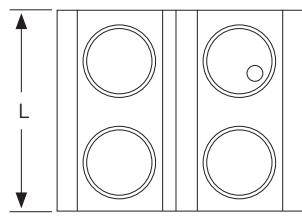
- A range of connectors for mains to mains connectors
- These connectors are composed of an Aluminium alloy body with Aluminium alloy bolts
- Suitable for Al or Cu conductors when used with resin joints
- Designed to meet the requirements of BS4579 Part 1 and Part 3 and engineering recommendation C79
- Can be installed under live working conditions (following suitable procedures)



CAT NO.	DESCRIPTION	L	H	W	APPLICATION TOOL	CABLE SIZE mm <sup>2</sup>
UBR95	UNIVERSAL BRANCH CONNECTOR	40	36	49	13mm SOCKET	35-95
UBR185	UNIVERSAL BRANCH CONNECTOR	54	45	66	19mm SOCKET	35-185
UBR300	UNIVERSAL BRANCH CONNECTOR	54	52	77	19mm SOCKET	70-300

## UBRXX-SBD – UNIVERSAL BRANCH CONNECTOR WITH DOUBLE SERVICE TAKEOFFS UP TO 1KV

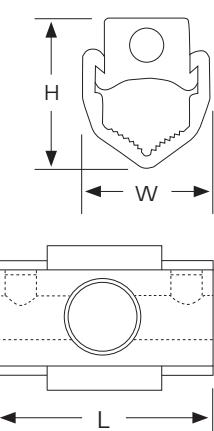
- A range of connectors for incorporating one or two service take off connections onto LV mains to mains cables
- These connectors are composed of an Aluminium alloy body with Aluminium alloy bolts
- Suitable for Al or Cu conductors when used with resin joints
- Designed to meet the requirements of BS4579 Part 1 and Part 3 and engineering recommendation C79
- Can be installed under live working conditions (following suitable procedures)



CAT NO.	NUMBER SERVICE TAKE OFFS	DIMENSIONS mm			APPLICATION TOOL	CABLE SIZE	
		L	H	W		MAIN mm <sup>2</sup>	TAP OFF mm <sup>2</sup>
UBR95-SBD	DOUBLE	64	44	49	13mm SOCKET	35-95	6-35
UBR185-SBD	DOUBLE	78	52	66	19mm SOCKET	35-185	6-35
UBR300-SBD	DOUBLE	78	59	77	19mm SOCKET	70-300	6-35

## USBXX-D – UNIVERSAL SERVICE BRANCH CONNECTOR WITH DOUBLE SERVICE TAKEOFFS UP TO 1KV

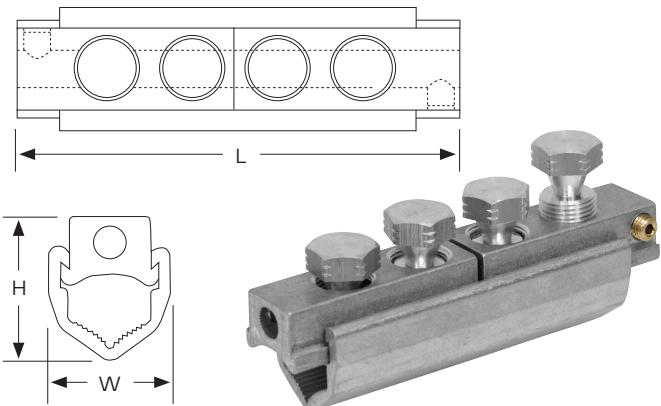
- A range of connectors for incorporating one or two service take off connections onto LV mains cables
- These connectors are composed of an Aluminium alloy body with Aluminium alloy bolts
- Suitable for Al or Cu conductors when used with resin joints
- Designed to meet the requirements of BS4579 Part 1 and Part 3 and engineering recommendation C79
- Can be installed under live working conditions (following suitable procedures)



CAT NO.	NUMBER OF SERVICE TAKE OFFS	DIMENSIONS mm			APPLICATION TOOL	CABLE SIZE	
		L	H	W		MAIN mm <sup>2</sup>	TAP OFF mm <sup>2</sup>
USB95D	DOUBLE	44	35	26	13mm SOCKET	35-95	6-35
USB185D	DOUBLE	51	40	35	19mm SOCKET	35-185	6-35
USB300D	DOUBLE	51	45	41	19mm SOCKET	70-300	6-35
USB400D	DOUBLE	51	53	41	19mm SOCKET	185-400	6-35

## USTXX-SBD – UNIVERSAL STRAIGHT CONNECTOR WITH DOUBLE SERVICE TAKEOFFS UP TO 1KV

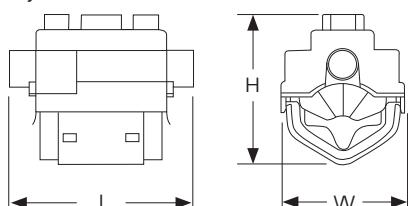
- A range of connectors for incorporating one or two service take off connections onto LV mains cables
- These connectors are composed of an Aluminium alloy body with Aluminium alloy bolts
- Suitable for Al or Cu conductors when used with resin joints
- Designed to meet the requirements of BS4579 Part 1 and Part 3 and engineering recommendation C79
- Can be installed under live working conditions (following suitable procedures)



CAT NO.	NUMBER OF SERVICE TAKEOFFS	DIMENSIONS mm			APPLICATION TOOL	CABLE SIZE	
		L	H	W		MAIN mm <sup>2</sup>	TAP OFF mm <sup>2</sup>
UST95-SBD	DOUBLE	104	33	25	13mm SOCKET	35-95	6-35
UST185-SBD	DOUBLE	132	39	34	19mm SOCKET	35-185	6-35
UST300-SBD	DOUBLE	132	43	40	19mm SOCKET	70-300	6-35

## RISING MAINS CONNECTORS

- Intended for 'live' jointing on to LV mains cables
- Insulation piercing connection
- Up to 300mm<sup>2</sup> main & up to 2x35mm<sup>2</sup> service conductors
- Fully shrouded connector body
- Shear head bolt, detaches once correct torque is reached
- Designed and tested to IEC 61238-1
- Can be installed under live working conditions (following suitable procedures)



CAT NO.	DIMENSIONS mm			APPLICATION TOOL	MAIN CONDUCTOR mm <sup>2</sup>	TAKE OFF CONNECTOR SIZE RANGE mm <sup>2</sup>
	L	H	W			
MSIP185	83	60	48	19mm SOCKET, 3mm ALLEN KEY	50-185	4-35
MSIP300	83	60	55	19mm SOCKET, 3mm ALLEN KEY	185-300	4-35
1350329-1	39	58	61	13mm SOCKET	50-300	6-35

## IPC'S - INSULATION PIERCING CONNECTORS

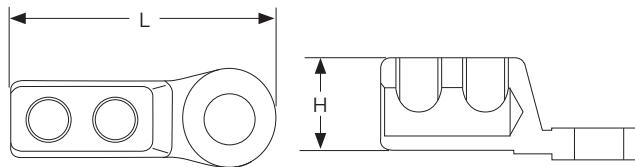
- These connectors are intended for 'live' jointing of service conductors on to LV mains cables of various types
- Designed for use with Copper and Aluminium conductors
- Range taking connectors for reduced inventory
- Shear head bolt ensures correct torque is reached everytime



CAT NO.	MAIN CONDUCTOR INSULATION	mm <sup>2</sup>	TAKE OFF CONDUCTOR	
			INSULATION	mm <sup>2</sup>
K223				1.5-10
0-1727912-3	INSULATED	16-95	INSULATED	1.5-10
0-1510619-3				4-35
K258	BARE COPPER			
K259	BARE ALUMINIUM	7-95	INSULATED	6-35
0-1574150-1	INSULATED			25-95
0-0708030-1	BARE	25-95	INSULATED	25-100
0-1229731-2	INSULATED	50-150	INSULATED	6-35
1351230-2	INSULATED	35-150	INSULATED	35-150
1350329-1	INSULATED	50-300	INSULATED	6-35
0-0739523-3			PUSH ON CONDUCTOR END CAP 16-150mm <sup>2</sup>	

## BET - BRASS END TERMINATION HEAVY DUTY BRASS SHEARBOLT LUG

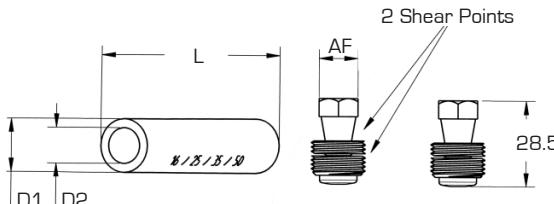
These connectors are intended as end terminations for use on Copper conductors (stranded or solid). They are especially suitable for the Copper neutral or CNE conductors of LV service and mains cables. They can also be used on the earth conductors and Copper screening wires of MV cables.



CAT NO.	HOLE SIZE	DIMENSIONS mm		APPLICATION TYPE	SIZE RANGE mm <sup>2</sup>
		L	H		
BET35-12	M12	55	20	3mm ALLEN KEY	4-35
BET60-12	M12	70	25	13mm SOCKET	16-60
BET120-12	M12	86	28	16mm SOCKET	50-120

## BSEK - EXTENSION KIT FOR MECHANICAL CONNECTORS

The BSEK is a crush sleeve accessory for use with BLMT and BSEK mechanical connectors of the specified sizes outlined in the table below. The sleeve allows a smaller conductor to be used successfully in a connector that it would not normally be suitable for.

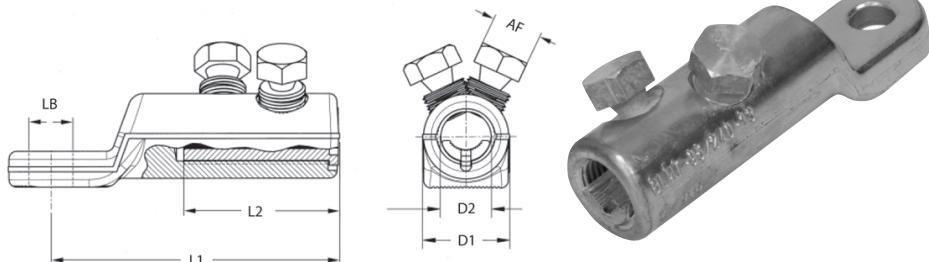


CAT NO.	CROSS SECTIONAL RANGE mm <sup>2</sup>	DIMENSIONS mm			CONTACT BOLTS QTY	HEAD SIZE AF mm
		L	D1	D2		
BSEK-16/25	16-25	35	10	6.9	0	-
BSEK-16/70	16-70	60	12	8	2	13

## BLMT – MECHANICAL LUGS FOR APPLICATIONS UP TO 36KV

These lugs are designed for use on Aluminium or Copper conductors and are suitable for applications up to 36kV

- Wide application range
- Shear head bolts with predetermined shear torque
- Lug bodies are made of high-tensile, tin-plated Aluminium alloy and bolts from special Aluminium alloy
- Centered hole and inserts



CAT NO.	CONDUCTOR SIZE	PALM HOLE DIAMETER mm LB	DIMENSIONS				CONTACT BOLTS QUANTITY	HEAD SIZE AF mm
			L1	L2	D1	D2		
BLMT-25/95-13	25-95	13					1	13
BLMT-25/95-17		17						
BLMT-35/150-13	35-150	13					1	17
BLMT-35/150-17		17						
BLMT-95/240-13	95-240	13					2	19
BLMT-95/240-17		17						
BLMT-120/300-13	120-300	13					2	22
BLMT-120/300-17		17						
BLMT-185/400-13		13						
BLMT-185/400-17	185-400	17					3	22
BLMT-185/400-21		21						
BLMT-500/630-13		13						
BLMT-500/630-17	500-630	17					3	27
BLMT-500/630-21		21						

## SELECTION AND APPLICATION TABLE

CAT NO.	APPLICATION RANGE/CONDUCTOR TYPE							
	AL CIRCULAR STRANDED	AL CIRCULAR SOLID	AL SECTOR STRANDED	AL SECTOR SOLID	CU CIRCULAR STRANDED	CU CIRCULAR SOLID	CU SECTOR STRANDED	
BLMT-25/95-XX	mm <sup>2</sup> 25-95	25-95	25-70	16-95	10-50	25-70	-	
	mm -	-	95*	-	3.6-8	95*	-	
	mm 5.7-12.5	5.5-11	-	4.8-12.5	-	-	-	
BLMT-35/150-XX	mm <sup>2</sup> 35-150	35-150	50-95	50-120	35-150	35-50	50-95	
	mm <sup>2</sup> -	-	120*-150*	-	-	-	120*-150*	
	mm 6.8-15	6.5-14	-	-	6.6-15	6.5-8	-	
BLMT-95/240-XX	mm <sup>2</sup> 95-240	95-240	95-150	95-150	95-240	-	95-150	
	mm <sup>2</sup> -	-	185*-240*	185 [90°]	-	-	185*-240*	
	mm 11-19.2	10.5-18	-	-	11-19.2	-	-	
BLMT-120/300-XX	mm <sup>2</sup> 120-300	150-300	120-185	120-240	120-300	-	120-185	
	mm <sup>2</sup> -	-	240*-300*	-	-	-	240*-300*	
	mm 12.7-23.1	12.9-19.8	-	-	12.7-22.6	-	-	
BLMT-185/400-XX	mm <sup>2</sup> 185-400	185-400	185-240	185-240	185-400	-	185-240	
	mm <sup>2</sup> -	-	300*-400*	-	-	-	300*-400*	
	mm 15.5-24.6	14.8-24.6	-	-	15.5-24.6	-	-	
BLMT-500/630-XX	mm <sup>2</sup> 500-630	500-630	-	-	500-630	-	-	
	mm 25.3-32.5	24-28.6	-	-	25.3-32.5	-	-	

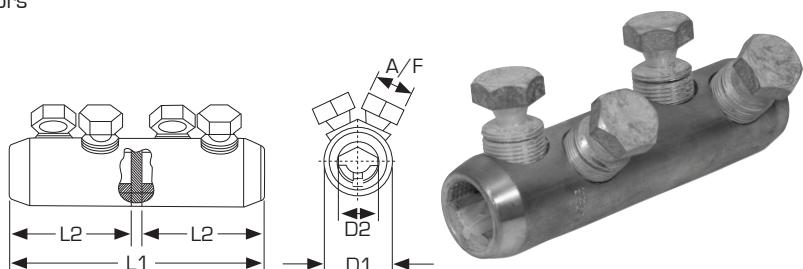
\*Compacted XX Palm Hole Diameter

## BSMB - MECHANICAL CONNECTORS FOR APPLICATIONS UP TO 36KV

These connectors are designed for use on Al or Cu conductors and are suitable for;

### APPLICATIONS UP TO 36KV

- Wide application range
- Shear head bolts with predetermined shear torque
- Connector bodies are made of high-tensile, tin-plated Aluminium alloy and bolts from special Aluminium alloy
- Centered hole and inserts



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	BLOCKED	DIMENSIONS mm				CONTACT BOLTS	
			L1	L2	D1	D2	QUANTITY	HEAD SIZE A/F mm
BSMB-10/35	10-35	YES	45	20	19	8.5	2	10
BSMB-25/95	25-95	YES	65	30	24	12.8	2	13
BSMB-35/150	35-150	YES	80	35	28	15.8	2	17
BSMB-95/240	95-240	YES	125	60	33	20	4	19
BSMB-120/300	120-300	YES	140	65	37	24	4	22
BSMB-185/400	185-400	YES	170	80	42	25.5	6	22
BSMB-500-MK2	500	YES	190	90	46	30	6	27
BSMB-630-MK2	630	YES	200	95	50	33	6	27
BSMB-800-MK2	800	YES	180	85	56	36	8	13
BSMB-1000-MK2	1000	YES	180	85	60	40	8	13

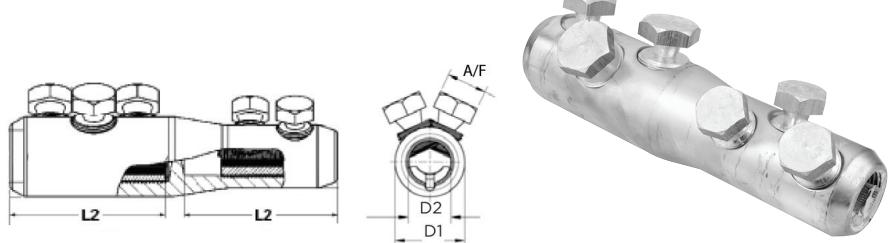
### SELECTION AND APPLICATION TABLE

CAT NO.	AL	AL	AL	AL	CU	CU	CU
	CIRCULAR STRANDED	CIRCULAR SOLID	SECTOR STRANDED	SECTOR SOLID	CIRCULAR STRANDED	CIRCULAR SOLID	SECTOR STRANDED
BSMB-10/35	mm <sup>2</sup> -	10-35	10-50	10-25 35*	10-35	10-35	10-25 35*
	mm <sup>2</sup> -	-	-	-	-	-	-
	mm 3.7-7.5	3.4-7.8	-	-	3.7-7.5	3.4-6.7	-
BSMB-25/95	mm <sup>2</sup> -	25-95	25-95	25-70 95*	-	16-95	10-50 25-70 95*
	mm <sup>2</sup> -	-	-	-	-	-	-
	mm 5.7-12.5	5.5-11	-	-	4.8-12.5	3.6-8	-
BSMB-35/150	mm <sup>2</sup> -	35-150	35-150	50-95 120-150*	50-120	35-150	- 50-95 120-150*
	mm <sup>2</sup> -	-	-	-	-	-	-
	mm 6.8-15	6.5-14	-	-	6.6-15	-	-
BSMB-95/240	mm <sup>2</sup> -	95-240	95-240	95-150 185-240*	95-150 185 (90°)	95-240	- 95-150 185-240*
	mm <sup>2</sup> -	-	-	-	-	-	-
	mm 11-19.2	10.5-18	-	-	11-19.2	-	-
BSMB-120/300	mm <sup>2</sup> -	120-300	150-300	120-185 240-300*	120-240	120-300	- 120-185 240-300*
	mm <sup>2</sup> -	-	-	-	-	-	-
	mm 12.7-23.1	12.9-19.8	-	-	12.7-22.6	-	-
BSMB-185/400	mm <sup>2</sup> -	185-400	185-400	185-240 300-400*	185-240 300 (90°)	185-400	- 185-240 300-400*
	mm <sup>2</sup> -	-	-	-	-	-	-
	mm 25.3-28.9	24-25.1	-	-	25.3-28.6	-	-
BSMB-500-MK2	mm <sup>2</sup> -	500	500	-	500	-	-
	mm 25.3-28.9	24-25.1	-	-	25.3-28.6	-	-
BSMB-630-MK2	mm <sup>2</sup> -	630	630	-	630	-	-
	mm 28.7-32.5	27.3-28.4	-	-	28.7-32.5	-	-
BSMB-800-MK2	mm <sup>2</sup> -	800	800	-	800	-	-
	mm 32.5-35.3	30.9-32.1	-	-	32.5-35.3	-	-
BSMB-1000-MK2	mm <sup>2</sup> -	1000	1000	-	1000	-	-
	mm 37-39.3	34.8-36	-	-	37-39.5	-	-

\*Compacted

## BSMB – MECHANICAL REDUCING CONNECTORS UP TO 36KV

- Designed for use on Al or Cu Conductors and are suitable for applications up to 36kV
- Wide application range
- Shearhead bolts with predetermined shear torque
- Centred hole & inserts
- Blocked connector to prevent moisture tracking



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>		DIMENSIONS mm								CONTACT BOLTS		CONTACT BOLTS	
	SIDE 1	SIDE 2	L1	L2	D1	D2	D3	D4	QTY SIDE 1	HEAD A/F mm SIDE 1	QTY SIDE 2	HEAD A/F mm SIDE 2		
BSMB 25/95-95/240	25-95	95-240	125	60	24	12.8	33	20	1	13	2	19		
BSMB 95/240-185/400	95-240	185-400	170	60	33	20	42	25.5	2	19	3	22		
BSMB 185/400-500	185-400	500	190	90	42	25.5	46	30	3	22	3	27		
BSMB 185/400-630	185-400	630	200	95	42	25.5	50	33	3	22	3	27		
BSMB 500-630	500	630	200	95	46	30	50	33	3	27	3	27		

## SELECTION AND APPLICATION TABLE

CAT NO.	AL ROUND STRANDED	AL ROUND SOLID	AL SECTOR STRANDED	AL SECTOR SOLID	CU ROUND STRANDED	CU ROUND SOLID	CU SECTOR STRANDED
<b>BSMB 25/95-95/240</b> (25-95MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm <sup>2</sup> mm	25-95 5.7-12.5	25-95 5.5-11	25-70 95*	16-95 4.8-12.5	10-50 3.6-8	25-70 95*
<b>BSMB 95/240-185/400</b> (95-240MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm <sup>2</sup> mm	95-240 11-19.2	95-240 10.5-18	95-150 185*-240*	95-150 185 (90°)	95-240 11-19.2	95-150 185*-240
<b>BSMB 185/400-500</b> (185-400MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm <sup>2</sup> mm	95-240 11-19.2	95-240 10.5-18	95-150 185-240*	95-150 185 (90°)	95-240 11-19.2	95-150 185-240*
<b>BSMB 185/400-630</b> (185-400MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm <sup>2</sup> mm	185-400 15.5-24.6	185-400 14.8-24.6	185-240 300-400*	185-240 300 (90°)	185-400 15.5-24.6	185-240 300-400*
<b>BSMB 500-630</b> (500MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm	500 25.3-28.9	500 24-25.1		500 25.3/28.6		
<b>BSMB 500-630</b> (630MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm	630 28.7-32.5	630 27.3-28.4		630 28.7-32.5		
<b>BSMB 500-630</b> (500MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm	500 25.3-28.9	500 24-25.1		500 25.3-28.6		
<b>BSMB 500-630</b> (630MM <sup>2</sup> SIDE)	mm <sup>2</sup> mm	630 28.7-32.5	630 27.3-28.4		630 28.7-32.5		

\*Compacted

## MECHANICAL CONNECTOR HOLDING TOOLS

TransNet offers both an insulated and un-insulated holding tool for Mechanical Connectors. Both can be used for most connector sizes.

- Large easy grip handle
- Recommended for use on most sizes of connector to eliminate possible core 'cranking'
- IT-10000-019 has a large jaw opening to accommodate a wide range of mechanical connectors
- 233 is insulated to 1000V



CAT NO.	DESCRIPTION
IT-1000-019	UNIVERSAL HOLDING TOOL FOR MECHANICAL CONNECTORS
223	1000V INSULATED MECHANICAL CONNECTOR HOLDER

## CORDLESS IMPACT WRENCH

Cordless Impact Wrench IT-1000-023 for the installation of mechanical connectors and lugs using shear-head bolts.

### FEATURES

- Fan-cooled rare-earth magnet motor
- Convenient belt hook with integrated LED work light
- Externally accessible carbon brush and replaceable armature
- Stable compartmented carry case
- Simplified, safer and faster installation
- No additional device needed
- 1700g (~3.8 lbs) light, ergonomic and practical design
- Can be used for shear-head bolts up to 100Nm
- Powerful battery sufficient for approx. 20 four-bolted mechanical connectors per battery charging cycle
- Everything included for all standard mechanical connectors and lugs

### INCLUDES

1 Battery charger, 2 Ni-MH battery 12V/2.6 Ah, 1 Carry case, 1 Installation instruction, 1/2" hexagon socket sizes metric 10, 13, 17, 19, 22, 27, 1 Adaptor to 1/4" hexagon drive, 2 hex head wrenches (Allen keys) metric 5, 6



CAT NO.	DESCRIPTION
IT-1000-033	CORDLESS IMPACT WRENCH FOR THE INSTALLATION OF MECHANICAL CONNECTORS AND LUGS USING SHEAR-HEAD BOLTS

## BI-METAL LUGS AND LINKS

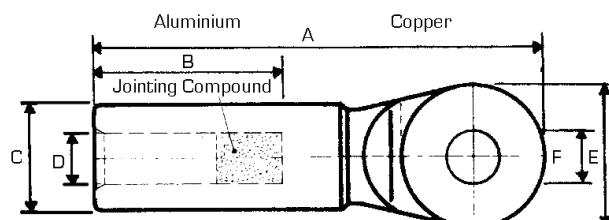
Copper to Aluminium terminations can be made with the Utilux range of Bi-Metal products. Under normal conditions, when Copper comes into contact with Aluminium, electrolytic corrosion may result, enhanced by the presence of oxygen. Utilux Bi-Metal lugs have the Copper friction welded to the Aluminium. The friction welding process eliminates the presence of oxygen and

therefore eliminates electrolytic corrosion. The welding process also maximises the strength of the joint. The Bi-Metal range includes lugs and links for both round and sector conductor. Included in the range are links for joining different sized Aluminium conductor to Copper conductor.

LUG STYLE	CONDUCTOR RANGE	PAGE
Bi-Metal Crimp Lug	16-800mm <sup>2</sup>	52
Bi-Metal Long Palm Lug	240-800mm <sup>2</sup>	53
Bi-Metal Reverse Lug	25-120mm <sup>2</sup>	53
Bi-Metal Stalk Lug	16-630mm <sup>2</sup>	54
LINK STYLE	CONDUCTOR RANGE	PAGE
Bi-Metal Crimp Link	16/10-630/630mm <sup>2</sup>	55
ELLIPTICAL JOINTS		PAGE
Elliptical Joints	2x70/2x16-2x185/1x35	56

## BI-METAL CRIMP LUG

- For Aluminium to Copper terminations
- Friction welded
- Manufactured from high purity Copper and Aluminium rod for high conductivity
- Stepped barrel O.D. sizes across all bi-metal lugs allows rationalisation of die inventory
- Pre-filled with jointing compound
- Individually packed in sealed plastic bags
- Reverse bi-metal (Aluminium palm, Copper barrel) lugs are manufactured to approved order quantities
- Industry standard tooling and dies required for installation
- Alternative sizes can be made to order for approved order quantities

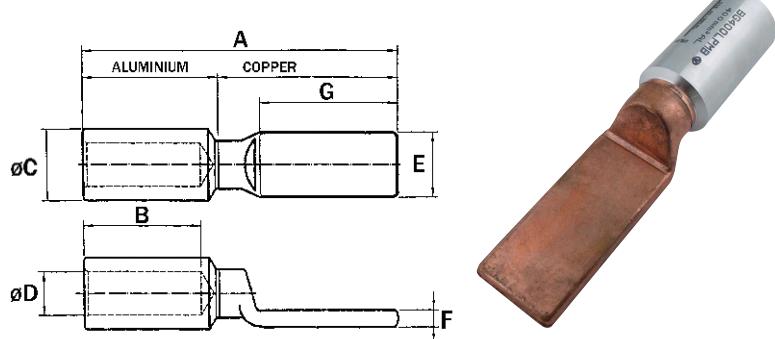


CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STRANDING METRIC	DIMENSIONS mm					STUD SIZE	PALM THICKNESS mm	CRIMPING DIE
			A	B	C	D	E	F		
BG16MB/1	16	7/1.70	75.0	32.0	12.0	5.5	22.0	MB M10	4.5	1#38-90AL
BG16M10/1										
BG25MB/1	25	19/1.35	75.0	32.0	12.0	7.0	22.0	MB M10	4.5	1#38-132AL
BG25M10/1										
BG35MB/1	35	19/1.53	75.0	32.0	12.0	8.5	22.0	MB M10 M12	4.5	
BG35M10/1										
BG35M12/1										
BG50MB/1	50	19/1.78	75.0	32.0	16.0	9.5	22.0	MB M10 M12	4.5	1#38-173AL
BG50M10/1										
BG50M12/1										
BG70MB/1	70	19/2.14	75.0	32.0	16.0	11.0	22.0	MB M10 M12	4.5	1#38-220AL
BG70M10/1										
BG70M12/1										
BG95MB/1	95	37/1.78	115.0	60.0	21.5	13.0	32.0	MB M10 M12	6.0	1#40-172AL
BG95M10/1										
BG95M12/1										
BG120MB/1	120	37/2.03	115.0	60.0	21.5	15.0	32.0	MB M12 M16	6.0	1#40-220AL
BG120M12/1										
BG120M16/1										
BG150MB/1	150	37/2.25	120.0	60.0	27.0	16.5	36.0	MB M12 M16	7.0	1#38-284AL
BG150M12/1										
BG150M16/1										
BG185MB/1	185	37/2.52	120.0	60.0	27.0	18.5	36.0	MB M12 M16	7.0	1#40-283AL
BG185M12/1										
BG185M16/1										
BG240MB/1	240	61/2.25	130.0	60.0	35.0	21.0	42.0	MB M12 M16	7.0	1#40-390AL
BG240M12/1										
BG240M16/1										
BG300MB/1	300	61/2.52	130.0	60.0	35.0	23.5	42.0	MB M12	7.0	1#40-432AL
BG300M12/1										
*BG400MB/1	400	61/2.85	160.0	70.0	47.0	26.5	50.0	MB	10.0	
*BG500MB/1	500	61/3.20	160.0	70.0	47.0	29.5	50.0	MB	10.0	
*BG630MB/1	630	127/2.52	175.0	70.0	54.0	33.5	60.0	MB	10.0	
*BG800MB/1	800	127/2.85	221.0	115.0	54.0	39.0	60.0	MB	10.0	

\*Square palms

## BI-METAL LONG PALM LUGS

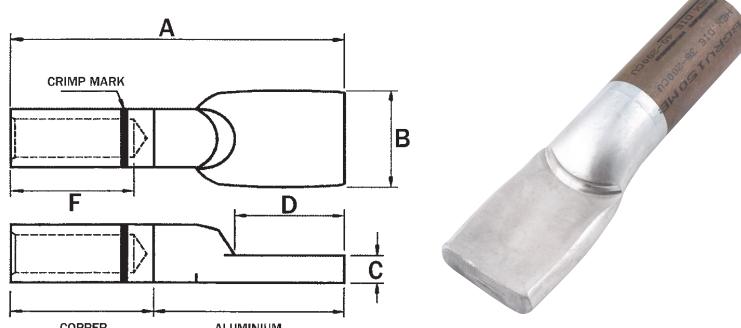
- For two bolt termination applications
- Blank palm, 105mm long x 50mm wide
- Friction welded high purity Aluminium and Copper rod
- Eliminates electrolytic corrosion
- Clearly marked with cable size, die recommendation and crimping position
- Pre-filled with jointing compound
- Individually packed in plastic bags
- Palms can be drilled to customers bolt hole specification



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	DIMENSIONS mm							CRIMPING DIE
		A	B	C	D	E	F	G	
BG240LPMB/1	240	209	60	35	21	50	13	105	1#38-284AL
BG300LPMB/1	300	209	60	35	23.5	50	13	105	1#40-390AL
BG400LPMB/1	400	221	70	47	26.5	50	13	105	1#40-432AL
BG500LPMB/1	500	221	70	47	29.5	50	13	105	
BG630LPMB/1	630	221	70	54	33.5	50	13	105	
BG800LPMB/1	800	266	105	54	39	50	13	105	

## BI-METAL REVERSE LUGS

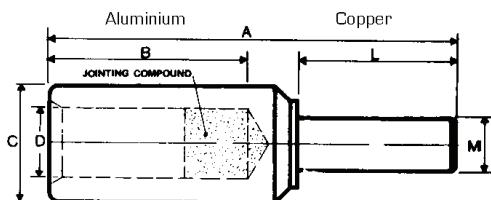
- Used for connection of Copper conductor to Aluminium terminal
- Blank Aluminium palm and Copper barrel friction welded high purity Aluminium and Copper rod
- Eliminates electrolytic corrosion
- Clearly marked with crimping position



CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	DIMENSIONS mm						CRIMPING DIE
		A	B	C	D	E	F	
BGRV25MB	25	70	23	4.5	24	22		1#38-92CU
BGRV35MB	35	70	23	4.5	24	22		1#38-92CU
BGRV50MB	50	78	27	6.0	28	22		1#38-115CU
BGRV70MB	70	78	27	6.0	28	22		1#38-115CU
BGRV95MB	95	103	34	9.8	34	38		1#38-165CU
BGRV120MB	120	103	34	9.8	34	38		1#38-165CU

## BI-METAL CRIMP STALK LUG

- Suitable for Aluminium to Copper terminations
- Friction welded
- Manufactured from high purity Copper and Aluminium
- Pre-filled with jointing compound
- Individually packed in sealed plastic bags

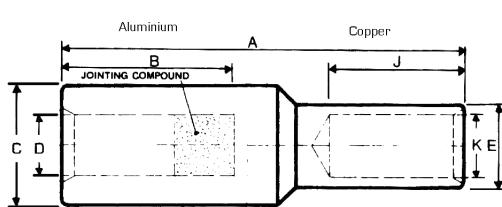


CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STRANDING METRIC	AL DIMENSIONS mm						CRIMPING DIE
			A	B	C	D	L	M	
BS16/12	16	7/1.70	70	32	12	5.5	30	12	
BS25/7	25	19/1.35	70	32	12	7.0	30	7	
BS25/12								12	
BS35/12	35	19/1.53	70	32	12	8.5	30	12	
BS50/12	50	19/1.78	70	32	16	9.5	30	12	
BS70/12	70	19/2.14	70	32	16	11.0	30	12	
BS95/12	95	37/1.78	110	60	21.5	13.0	38	12	
BS120/12								12	
BS120/14	120	37/2.03	110	60	21.5	15.0	38	14	
BS150/12								14	
BS150/14	150	37/2.25	120	60	27	16.5	48	12	
BS185/16								14	
BS185/18	185	37/2.25	120	60	27	18.5	48	16	
BS240/16								18	
BS240/18	240	61/2.25	122	60	35	21.0	48	16	
BS300/16								18	
BS300/18	300	61/2.52	122	60	35	23.5	48	18	
BS400/18								20	
BS400/20	400	61/2.85	153	70	47	26.5	65	18	
BS500/18								20	
BS500/20	500	61/3.20	153	70	47	29.5	65	18	
BS630/20	630	127/2.52	160	70	54	33.5	70	20	1#40-432AL

**Note:** Alternative stalk sizes can be manufactured to approved minimum order quantities.

## BI-METAL CRIMP LINK

- Suitable for Aluminium to Copper in-line terminations
- Friction welded
- Manufactured from high purity Copper and Aluminium rod for high conductivity
- Pre-filled with jointing compound
- Individually packed in sealed plastic bags
- Industry standard tooling and dies required for installation
- Pre-filled with jointing compound
- Individually packed in sealed plastic bags



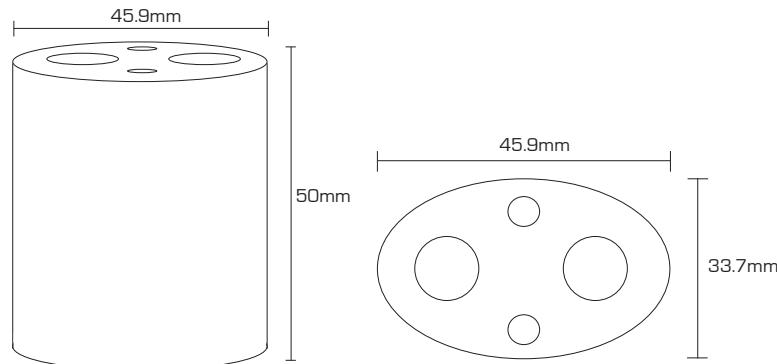
CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	STRANDING METRIC	AL DIMENSIONS mm				ALUMINIUM CRIMPING DIE	CU DIMENSIONS mm			COPPER CRIMPING DIE
			A	B	C	D		J	E	K	
BK16/10	16/10	7/1.70-7/1.35	70.0	32.0	12.0	5.5	1#38-90AL	11.5	21.5	4.5	
BK16/16	16/16	7/1.70-7/1.70								5.5	
BK25/16	25/16	19/1.35-7/1.70	70.0	32.0	12.0	7.0	1#38-90AL	11.5	21.5	5.5	1#38-92CU
BK25/25	25/25	19/1.35-19/1.35								7.0	
BK35/25	35/25	19/1.53-19/1.35	70.0	32.0	12.0	8.5	1#38-90AL	11.85	21.5	7.0	
BK35/35	35/35	19/1.35-19/1.53								8.5	
BK50/35	50/35	19/1.78-19/1.53	70.0	32.0	16.0	9.5	1#38-132AL	11.5	21.5	8.5	1#38-92CU 1#38-115CU
BK50/50	50/50	19/1.78-19/1.78								14.5	
BK70/50	70/50	19/2.14-19/1.78	70.0	32.0	16.0	11.5	1#38-132AL	14.5	32.0	9.5	1#38-115CU
BK70/70	70/70	19/2.14-19/2.14								40.0	
BK95/70	95/70	37/1.78-19/2.14	110.0				1#38-173AL	14.5	40.0	11.0	1#38-115CU 1#38-165CU
BK95/95	95/95	37/1.78-37/1.78	120.0	60.0	21.5	13.0	1#40-172AL	20.5		13.0	
BK120/95	120/95	37/2.03-37/1.78	120.0	60.0	21.5	15.0	1#38-173AL	20.5	40.0	15.0	1#38-165CU
BK120/120	120/120	37/2.03-37/2.03					1#40-172AL				
BK150/120	150/120	37/2.25-37/2.03	120.0	60.0	27.0	16.5	1#38-173AL	20.5	40.0	15.0	1#38-165CU 1#38-200CU
BK150/150	150/150	37/2.25-37/2.25					1#40-172AL	24.5		16.5	
BK185/150	185/150	37/2.52-37/2.25	120.0	60.0	27.0	18.5	1#38-220AL	24.5	40.0	16.5	1#38-200CU
BK185/185	185/185	37/2.52-37/2.52								18.5	
BK240/185	240/185	61/2.25-37/2.52	122.0	60.0	35.0	21.0	1#38-284AL	24.5	40.0	18.5	1#38-200CU 1#38-260CU
BK240/240	240/240	61/2.25-61/2.25								32.0	
BK300/240	300/240	61/2.52-61/2.25	125.0	60.0	35.0	23.5	1#38-284AL	32.0	40.0	21.0	1#38-260CU
BK300/300	300/300	61/2.52-61/2.52					1#40-283AL			23.5	
BK400/300	400/300	61/2.85-61/2.52	153.0				1#40-390AL	32.0	55.0	23.5	1#40-260CU 1#40-310CU
BK400/400	400/400	61/2.85-61/2.85	155.0	70.0	47.0	26.5				38.5	
BK500/400	500/400	61/3.20-61/2.85	155.0	70.0	47.0	29.5	1#40-390AL	38.5	58.0	26.5	1#40-310CU
BK500/500	500/500	61/3.20-61/3.20								29.5	
BK630/500	630/500	127/2.52-61/3.20	160.0	70.0	54.0	33.5	1#40-432AL	38.5	58.0	29.5	1#40-310CU 1#40-370CU
BK630/630	630/630	127/2.52-127/2.52								45	

**Note:** Other size combinations are available, please contact customer service for details

## ELLIPTICAL JOINTS

For connection of single or multicore cable in Pillar Boxes. Designed for making off service conductors. Elliptical joints are made from elliptically shaped solid Aluminium. Elliptical joints are

supplied pre-greased, with caps to keep pollution out, and have the conductor range stamped into the end. They are individually packaged and sold separately.



CAT NO.	MAIN CONDUCTOR mm <sup>2</sup>	TAP CONDUCTOR mm <sup>2</sup>	DIE SIZE
ECJ2/70-2/16		2x16	
ECJ2/70-2/25	2x70	2x25	HT-TRIDIE
ECJ2/70-1/35		1x35	
ECJ2/95-2/16		2x16	
ECJ2/95-2/25	2x95	2x25	HT-TRIDIE
ECJ2/95-1/35		1x35	
ECJ2/120-2/16		2x16	
ECJ2/120-2/25	2x120	2x25	
ECJ2/120-1/35		1x35	HT-TRIDIE
ECJ2/120-2/35		2x35	
ECJ2/185-2/16		2x16	
ECJ2/185-2/25	2x185	2x25	HT-TRIDIE
ECJ2/185-1/35		1x35	

# OVERHEAD CONNECTORS & FITTINGS

This range is designed for overhead conductor in both non-tension and full tension applications. The splices are marked to clearly indicate the conductor type, crimping dies and crimping positions. Crimp die combinations have been selected to achieve desirable compression ratios. Most of these are listed in this catalogue.

Bolted overhead fittings are versatile in several ways. Their basic design offers a range taking capability, no special tooling is required to effect a reliable connection, and each fitting may be re-used without loss of efficiency. A variety of hardware is available, including galvanised products for securing overhead conductors.

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## ELECTRICAL JOINTING COMPOUND

- Recommended whenever Aluminium is part of a connection
- H2397 with zinc particles suspended in a no melt grease penetrates the oxide film on Aluminium surfaces and provides low initial contact resistance
- The compound in the joint seals out air and moisture preventing oxidation or corrosion and ensures high conductivity



CAT NO.	DESCRIPTION	COLOUR	TUBE SIZE
H2398/1	COPPER JOINTING COMPOUND, SECUROL	CLEAR	250G
H2397/1	ALI JOINTING COMPOUND ALUMINOX WITH ZINC PARTICLES	GREY	225G
A13	ALI & BIMETAL JOINTING COMPOUND WITH ZINC PARTICLES	GREY	8OZ

## TELECOM CRIMPS – FULL TENSION COPPER CONNECTORS

### IMPERIAL & METRIC

- Connector Material – Copper, metal sprayed internally
- Superior tensile strength
- Considerable reduction in mass of finished joint
- Elimination of corrosion
- Also known as MS Telecom Sleeves



### IMPERIAL

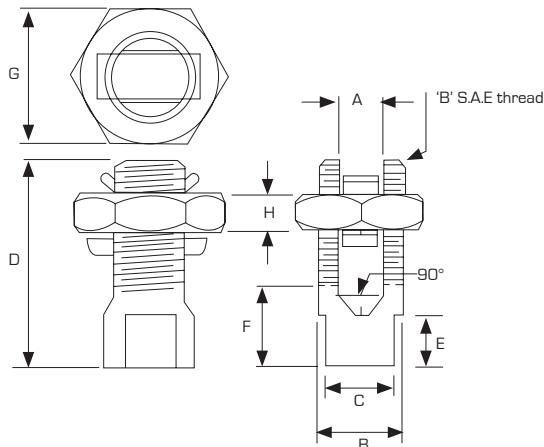
CAT NO.	STRANDING IMPERIAL	CONNECTOR DIMENSIONS		CRIMP GROOVE SIZE mm	TOOL NO.	CRIMPS PER CONNECTOR
		O.D. mm	LENGTH mm			
TDCS1/100	7/.044	6.35	38	6.35	TY635794/1	4
TECS1/50	7/.052	7.94	64	7.94	TY635794/1	8
TECS2/50	7/.064	7.94	64	7.94	TY635794/1	8
TFCS1/50	7/.080	9.52	76	9.52	TR9521270	8
TFCS2/50	19/.052	9.52	76	9.52	TR9521270	8
TFCS3/50	7/.083	9.52	76	9.52	TR9521270	8
TGCS3/50	19/.064	12.70	89	12.70	TR9521270	10
THCS2/50	19/.083	15.88	127	15.88	38-130CU	14
TJCS1/1	19/.101	22.22	203	19.25	38-193CU	8
TJCS2/1	37/.072	22.22	203	19.25	38-193CU	8
TKCS2/1	37/.083	25.40	254	22.00	38-220CU	12

### METRIC

CAT NO.	STRANDING IMPERIAL	CONDUCTOR SIZE mm <sup>2</sup>	CONNECTOR DIMENSIONS		CRIMP GROOVE SIZE mm	TOOL NO.	CRIMPS PER CONNECTOR
			O.D. mm	LENGTH mm			
TDCSM2/100	7/1.04	6	6.35	38	6.35	TY635794/1	4
TECSM1/50	7/1.35	10	7.94	64	7.94	TY635794/1	8
TECSM2/50	7/1.70	16	7.94	64	7.94	TY635794/1	8
TFCSM1/50	7/2.14	25	9.52	76	9.52	TR9521270	8
TFCSM2/50	19/1.35	35	9.52	76	9.52	TR9521270	8
TGCSM2/50	19/1.53	-	12.70	89	12.70	TR9521270	10
THCSM2/50	19/1.78	50	15.88	127	15.88	38-130CU	14
THCSM3/50	19/2.14	70	15.88	127	15.88	38-130CU	14

## SPLIT BOLT CONNECTORS

Split bolt connectors are used for tapping or joining overhead Copper conductors. Split bolts are made of hard grade, high conductivity 100% Australian brass and include a captive saddle



which applies a distributed pressure to conductors, to comply with ESAA specifications.



CAT NO.	MAXIMUM CONDUCTOR SIZE		DIMENSIONS IN mm (EXCEPT B WHICH IS IN INCHES)							
	mm <sup>2</sup>	STRANDING	A	B	C	D	E	F	G	H
B22T	16	7/.064	5.3	1/2"	10.4	30.2	7.9	11.1	17.9	6.3
B24T	35	7/.104	8.3	5/8"	13.2	36.5	9.5	14.3	23.2	6.3
B25T	70	19/.083	10.9	7/8"	17.9	44.5	9.5	22.2	27.7	7.1
B26T	95	19/.101	12.9	7/8"	17.9	50.8	9.5	22.2	27.7	7.1
B28T	185	37/.103	18.5	1 1/4"	23.2	66.7	9.5	25.4	42.1	7.9

## IPC'S – INSULATION PIERCING CONNECTORS

- These connectors are intended for 'live' jointing of service conductors on to LV mains cables of various types
- Designed for use with Copper and Aluminium conductors
- Range taking connectors for reduced inventory
- Shear head bolt ensures correct torque is reached everytime



CAT NO.	MAIN CONDUCTOR INSULATION	mm <sup>2</sup>	TAKE OFF CONDUCTOR INSULATION		mm <sup>2</sup>
			INSULATED	BARE	
K223					1.5-10
0-1727912-3	INSULATED	16-95	INSULATED		1.5-10
0-1510619-3					4-35
K258	BARE COPPER				
K259	BARE ALUMINIUM	7-95	INSULATED		6-35
0-1574150-1	INSULATED				25-95
0-0708030-1	BARE	25-95	INSULATED		25-100
0-1229731-2	INSULATED	50-150	INSULATED		6-35
1351230-2	INSULATED	35-150	INSULATED		35-150
1350329-1	INSULATED	50-300	INSULATED		6-35
0-0739523-3	PUSH ON CONDUCTOR END CAP	16-150mm <sup>2</sup>			

## MAINS ENTRY BOX

The mains entry box is mounted on the fascia of the building and incorporates fully insulated removable connectors to connect both the aerial service cable and the customer's cable.

Available in single and three phase options they accommodate supply conductors, from 6-35mm<sup>2</sup> and customer conductors from 4-35mm<sup>2</sup>.



CAT NO.	DESCRIPTION
K453	SINGLE PHASE MAINS ENTRY BOX WITH 2 CONNECTORS
K457	THREE PHASE MAINS ENTRY BOX WITH 3 CONNECTORS

## SHACKLE STRAPS & U SHACKLES

Galvanised Steel straps to hold LV shackle insulator suspended from fixing location.

CAT NO.	DIMENSIONS	IMAGE
GSS210	170x30x3mm, M14 HOLES	
GSS205	190x32x3mm, M14 HOLES	
GALV210USHACKLE	85x32x3, M14 HOLES	
GALV205USHACKLE	105x32x3, M14 HOLES	

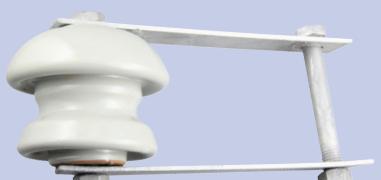
## LV INSULATORS

Low Voltage porcelain insulators used as a strain point for LV conductors, to secure it in place.

CAT NO.	DESCRIPTION	GROVE	FIXING HOLE	VOLTAGE RATING	IMAGE
0-0361400-3	210 TYPE	10mm	17.5mm	650V	
0-0361400-4	205 TYPE	18mm	17.5mm	3.3kV	
103	LV SPIKE	16mm HOLE	COACH SCREW	650V	

## SHACKLE INSULATOR KITSETS

LV Shackle Insulator kits come complete with bolts, shackle straps and insulator.

CAT NO.	DESCRIPTION	IMAGE
210SHACKKIT	210 LV SHACKLE INSULATOR KIT INCLUDES BOLTS & STRAPS	
210USHACKCMPLT	210 LV SHACKLE INSULATOR KIT INCLUDES BOLTS & U-STRAPS	
205SHACKKIT	205 LV SHACKLE INSULATOR KIT INCLUDES BOLTS & STRAPS	
205USHACKCMPLT	205 LV SHACKLE INSULATOR KIT INCLUDES BOLTS & U-STRAPS	

## HOUSE HOOK

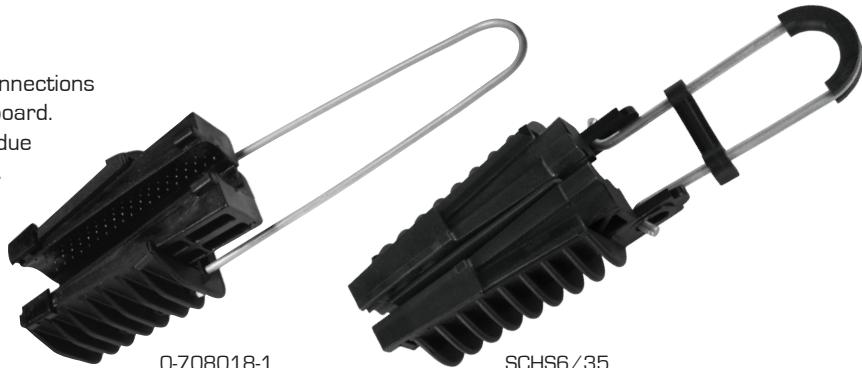
Galvanised Steel threaded hook, used as an anchor point for securing LV shackle insulators. Simple to install and remove.



CAT NO.	DIMENSIONS
AA18601	80mm LONG, 12mm O.D. 28mm HOOK I.D.

## STRAIN CLAMP

Clamp used to take the strain of house service connections typically from overhead conductors to the fascia board. Wedge style design means the clamp stays tight due to the strain it's holding. Fast and simple to install.



CAT NO.	CABLE TYPE	NUMBER OF CORES	CONDUCTOR RANGE
0-708018-1	NEUTRAL SCREEN	SINGLE	18-25mm O.D.
0-708046-3	NEUTRAL SCREEN	SINGLE	9-17mm O.D.
SCHS6/35	PVC COVERED	2 AND 4	6-35mm <sup>2</sup>

## NEOPRENE LIMITED TENSION DEADENDS

The TNDE range of limited tension deadends are PVC coated galvanised fittings, suitable for application over Polyethylene or Neoprene insulated conductors. The coated subsets of each deadend leg exert a low radial pressure that does not damage the insulation on the conductor.



CAT NO.	PACK SIZE	COLOUR	OVERALL DIAMETER*		CONDUCTOR SIZES			
			mm MIN	mm MAX	1C	1C N/S	2C N/S	3C N/S
TNNDE0585	40	Green	5.85	7.34	10, 16	-	-	-
TNNDE0735	40	Red	7.35	9.54	25, NAMU, POKO	2.5, 4	-	-
TNNDE1036	25	Blue	9.55	12.1	35, 50, LADYBIRD, KUTU	6	-	-
TNNDE1369	25	Red	12.1	14.84	70, 95, RANGO	10	6	2.5, 4
TNNDE1554	25	Black	14.85	18.8	95, 120, WEKE, BEETLE	16, 25	10	4, 6
TNNDE1973	15	Yellow	18.8	20.19	WETA, 150	35	16	10
TNNDE2216	10	Blue	22	23.32	-	50	25	16
TNNDE2390	10	Orange	23.9	25	-	70	35	25
TNNDE2555	10	Red	25.55	27.19	-	-	-	35

\*Overall diameter includes cores & insulation

# EARTHING

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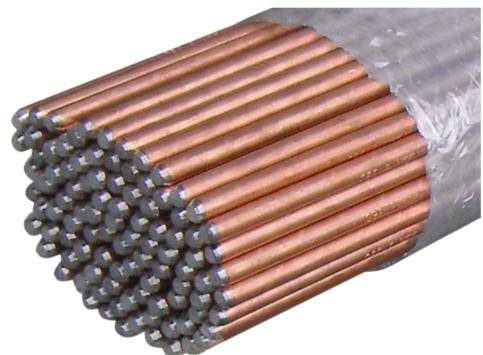


## EARTH RODS

Copper plated earth rods with a 254 micron electrolytic coating of Copper are available in packs of 100. The plating process ensures a long lasting molecular bond between the Copper layer and steel core. With a tough carbon steel core and a strong Copper coating which will not slip or tear when driven, nor crack when bent, these earth rods give a long and reliable service life.

As well as Copper plated earth rods, we offer Stainless Steel earth rods for situations where harsh environments demand them.

TransNet earth rods have a high resistance to corrosion and provide a low resistance path to ground. Made to UL Standard and fully compliant with AS/NZS 3000.



CAT NO.	DESCRIPTION	PACK SIZE
E/ROD/ERIC0/611360	ERIC0 EARTH ROD 1840mm x 13mm 254 Microns COPPER PLATED	100
E/ROD/ERIC0/615860	ERIC0 EARTH ROD 1840mm x 15mm 254 Microns COPPER PLATED	100
SSE/ROD13MM	316 STAINLESS STEEL EARTH ROD 1.8m x 13mm	MADE TO ORDER

## EARTH ROD COUPLERS

Couplers are available to suit all Earth Rods in stock, these couplers are used to join multiple earth rods together in order to reach acceptable resistance levels.



CAT NO.	DESCRIPTION
E/RCPLER/ERIC0/CC12F	ERIC0 EARTH ROD COUPLER TO SUIT 13mm ROD
E/RCPLER/ERIC0/CC58	ERIC0 EARTH ROD COUPLER TO SUIT 15mm ROD
SSE/RODCPLER13MM	316 STAINLESS STEEL EARTH ROD COUPLER TO SUIT 13mm ROD

## EARTH ROD DRIVING TIPS

In areas of hard ground a driving tip might be required, driving tips are available for 13mm and 15mm earth rods and they are designed to help make way for the rod to follow.



CAT NO.	DESCRIPTION
E/RODTIP13MM	EARTH ROD DRIVING TIP TO SUIT 13mm ROD

## EARTH ROD DRIVING TOOL

In order to reduce the chance of damage to the end of an earth rod, Earth Rod Driving Tools are available. These units fit snuggly over the end of the Earth Rod and give a large surface area to drive the rod into the ground as well as ensuring there is no deformation of the rod. This is especially important if another rod is to be coupled to it.

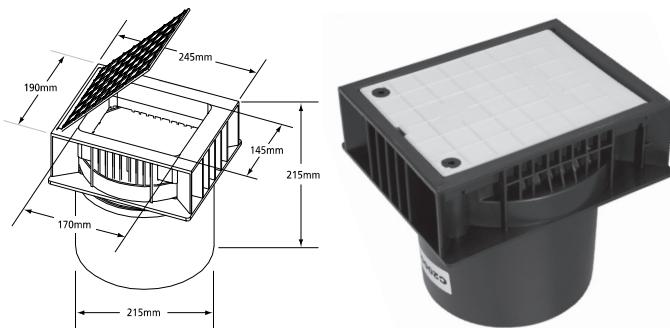


CAT NO.	DESCRIPTION
ERD13	13mm EARTH ROD DRIVING TOOL FOR 13mm O.D. ROD
ERD15	15mm EARTH ROD DRIVING TOOL FOR 15mm O.D. ROD

## EARTH ROD INSPECTION BOX

The ERITECH PITO3 offers a high level of protection for critical grounding terminations through the use of its lockable lid. Ease of maintenance of the ground termination is gained by way of the large working aperture once the lid is un-locked using the security key.

Due to its lightweight robust construction the ERITECH PITO3 can withstand 5tonnes making it ideal for installation in heavy traffic areas.



CAT NO.	DESCRIPTION	DIMENSIONS
C2000930	ERICO EARTH ROD INSPECTION BOX	215H x 215D x 190W x 245L

## TRANSNET EARTH ROD INSPECTION BOX

Designed by NZ contractors for NZ contractors! Improve the look and safety of your installation with this unit. Made in NZ, this unit is UV stable and offers a strengthened lid for longevity.

### Features

- Heavy duty hinged lid
- Lid latches closed
- UV stabilised material
- Easy to identify
- Designed and manufactured in NZ



CAT NO.	DESCRIPTION	DIMENSIONS (TOP) mm	HEIGHT mm
TNERIB	EARTH ROD INSPECTION BOX	120x120	200

## BOLTED EARTH CONNECTORS

Simple and robust, these bolted connectors have a groove to ensure correct placement of conductor. Designed for single

conductor parallel orientation. All these connectors can be easily removed should the need arise.



E/RUBOLT13/16MM



E/RC13/15mm



H303A#1



H1826

CAT NO.	DESCRIPTION	CONDUCTOR SIZE mm <sup>2</sup>	ROD DIAMETER mm
E/RUBOLT13/16MM	CLAMP210 U BOLT EARTH CLAMP	35-120	13-15
E/RC13/15MM	GRC5 EARTH ROD CLAMP 13-15mm	4-35	13-15
H303A#1	UTILUX BRASS DOMESTIC EARTH CLIP	6-16	13
H1826-1			16
H1826-2	UTILUX CAST BRASS EARTH CLAMP	6-10	13-19
H1826-3			19-25

# MECHANICAL WEDGE CONNECTORS

## SHEAR-LOK

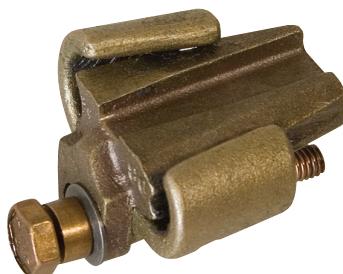
AMP developed the SHEAR-LOK Copper Tap/Grounding Connector for applications in the power utility industry where connectors are required to withstand mid-range magnitudes of fault current[20kV symmetrical RMS].

### KEY FEATURES

- Wedge Pressure Technology
- Shear-head bolt for controlled torque
- Removable without conductor damage
- No special tools required
- Application not inhibited by disfigured ground rod end
- Taps into existing ground conductors



+UL Listed file # E69905



CAT NO.	DESCRIPTION	CONNECTIONS
0-80408-2	SHEAR-LOK CONNECTOR	25mm <sup>2</sup> - 13mm ROD/35mm <sup>2</sup> - 13mm ROD
0-83000-1	SHEAR-LOK CONNECTOR	50mm <sup>2</sup> - 13mm ROD/70mm <sup>2</sup> - 13mm ROD

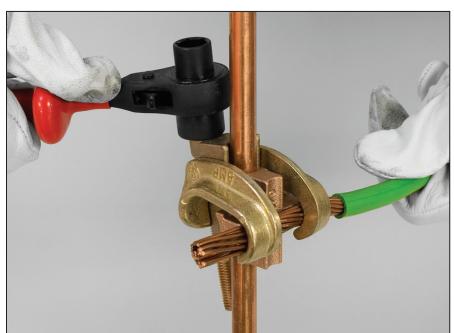
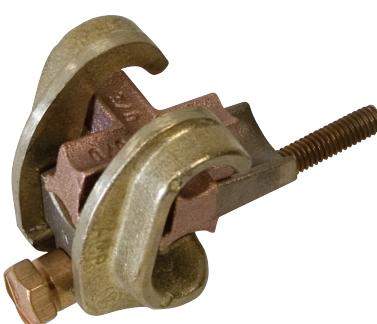
## WRENCH-LOK

The WRENCH-LOK System uses a specially designed shear-head bolt to drive a tapered wedge into the connector body.

All that's needed to apply it is a common ratchet or socket wrench. When the connection is tightened to the proper torque, the bolt head shears off, giving a positive visual indication of a perfect connection. It's that simple and sure.



+UL Listed file # E69905



CAT NO.	DESCRIPTION	CONNECTIONS
0-83749-1	AMPACT WRENCH-LOK	35mm <sup>2</sup> - 13mm ROD/50mm <sup>2</sup> - 13mm ROD
0-83747-3	AMPACT WRENCH-LOK	35mm <sup>2</sup> - 35mm <sup>2</sup> /50mm <sup>2</sup> - 50mm <sup>2</sup> /50mm <sup>2</sup> - 70mm <sup>2</sup>
0-83749-2	AMPACT WRENCH-LOK	50mm <sup>2</sup> - 13mm ROD/70mm <sup>2</sup> - 13mm ROD
0-83748-2	AMPACT WRENCH-LOK	95mm <sup>2</sup> - 13mm ROD/120mm <sup>2</sup> - 13mm ROD
0-83751-1	AMPACT WRENCH-LOK	185mm <sup>2</sup> - 13mm ROD

## EXOTHERMIC CONNECTIONS

### CADWELD PLUS

CADWELD® PLUS is the latest advancement in the continuing evolution of ERICO's exothermic products. It is a simplified method of performing exothermically welded electrical connections.

- The CADWELD PLUS System offers all the benefits of conventional CADWELD connections and more
- Consists of a tamper proof, disposable, moisture resistant welding material cup. The welding material, disk and ignition source are incorporated into the self-contained package

- Electronic Control Unit means no starting material is required and makes ignition very easy
- Six foot control unit lead gives increased flexibility and operational safety in hard to reach areas

### CADWELD PLUS ONE SHOT

The new refractory ceramic body utilised with the CADWELD PLUS ONE SHOT system is more durable than conventional ceramic and resists breaking. The CADWELD PLUS ONE SHOT is ideal for making permanent reliable connections to ground rods for electrical transmission and distribution, telecommunications and cable television applications.

- Easy to use electronic ignition. No starting material
- Durable disposable ceramic body eliminates the graphite mold and frame
- Produces a permanent connection that will not loosen or corrode

- NEC Compliant and UL Listed
- Electronic Control Unit means no starting material is required and makes ignition very easy
- Six foot control unit lead gives increased flexibility in hard to reach areas



CAT NO.	DESCRIPTION	CONNECTION STYLE
GT1141LPLUS	CADWELD PLUS 1 SHOT 16mm <sup>2</sup> /13mm ROD	
GT1141QPLUS	CADWELD PLUS 1 SHOT 25mm <sup>2</sup> /13mm ROD	
GT1141VPLUS	CADWELD PLUS 1 SHOT 35mm <sup>2</sup> /13mm ROD	
GT1142CPLUS	CADWELD PLUS 1 SHOT 50mm <sup>2</sup> /13mm ROD	
GT1142GPLUS	CADWELD PLUS 1 SHOT 70mm <sup>2</sup> /13mm ROD	
GT1161LPLUS	CADWELD PLUS 1 SHOT 16mm <sup>2</sup> /15mm ROD	
GT1161QPLUS	CADWELD PLUS 1 SHOT 25mm <sup>2</sup> /15mm ROD	
GT1161VPLUS	CADWELD PLUS 1 SHOT 35mm <sup>2</sup> /15mm ROD	
GT1162CPLUS	CADWELD PLUS 1 SHOT 50mm <sup>2</sup> /15mm ROD	T
GT1162GPLUS	CADWELD PLUS 1 SHOT 70mm <sup>2</sup> /15mm ROD	T

### CADWELD PLUS WELD METALS

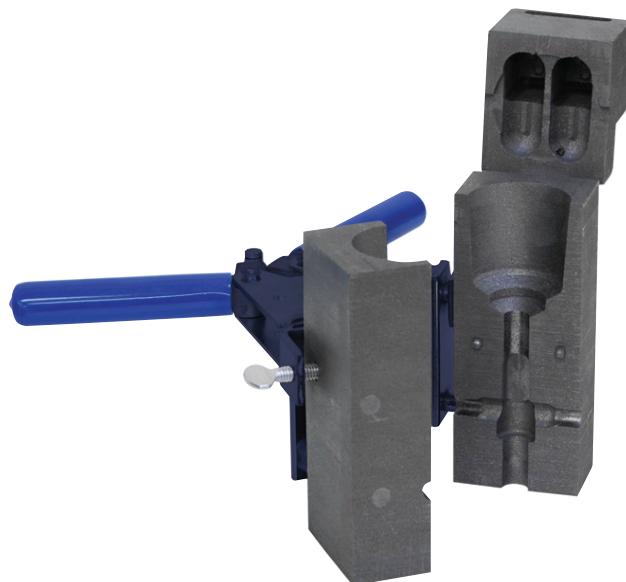
Colour coded, sealed weld metals deliver exactly the right amount of material to make a good connection. No need to pour or mix, simply place into the mold, connect the lead and make the connection.

CAT NO.	DESCRIPTION	PACK SIZE
32PLUSF20	ERICO CADWELD PLUS 32 WELD METAL	10
45PLUSF20	ERICO CADWELD PLUS 45 WELD METAL	20
65PLUSF20	ERICO CADWELD PLUS 65 WELD METAL	20
90PLUSF20	ERICO CADWELD PLUS 90 WELD METAL	10
115PLUSF20	ERICO CADWELD PLUS 115 WELD METAL	10
150PLUSF20	ERICO CADWELD PLUS 150 WELD METAL	10
200PLUSF20	ERICO CADWELD PLUS 200 WELD METAL	10
250PLUSF20	ERICO CADWELD PLUS 250 WELD METAL	10
300PLUSF20	ERICO CADWELD PLUS 300 WELD METAL	10
400PLUS20	ERICO CADWELD PLUS 400 WELD METAL	10

## CADWELD PLUS MOLDS

Because the CADWELD® PLUS process uses a high temperature reaction of powdered Copper oxide and Aluminium the mold needs to withstand these high temperatures. In order to achieve this heat they are made of semi permanent graphite and should last for more than 50 welds if properly cared for and maintained. Many different connection styles are available for a variety of applications.

The table below shows the most common connection styles, if the connection you desire is not shown below please contact customer services for more information.



### WHEN ORDERING YOUR CADWELD PLUS MOLD...

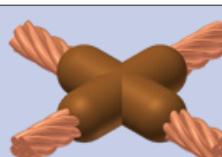
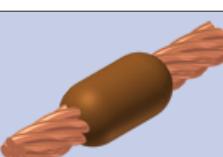
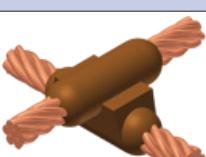
Please have the following information at hand when ordering your CADWELD PLUS Mold.

**CONNECTION STYLE** – Tee, Splice, Cross etc

**SUBSTRATES TO BE CONNECTED** – Cable to Rod, Cable to Cable etc

**MAIN OR RUN CONDUCTOR SIZE** – 35mm<sup>2</sup>, 95mm<sup>2</sup> etc

**TAP CONDUCTOR OR ROD SIZE** – 35mm<sup>2</sup>, 13mm Rod etc

MOLD TYPE		MOLD TYPE	
	<b>GT</b> – Tee/Horizontal cable, Vertical Rod		<b>PT</b> – Parallel thru/Horizontal, Over and under
	<b>TA</b> – Tee/Horizontal		<b>XA</b> – X/Horizontal, same plane
	<b>SS</b> – Splice/Horizontal		<b>XB</b> – X/Horizontal, lapped [uncut]

Above illustrates the most common connection types, there are many other types available. If there is a connection type you require but don't see above, please contact our customer service team.

## WRICONS

THE WRICON EARTHING SYSTEM enables the entire earthing system to be located completely within the structure, thus providing a location away from any possibility of accidental damage or unauthorised disconnection.

The heart of the WRICON Earthing System is the unique Earthing Terminal Plate which allows earthing to the building frame [foundations or rebar] easily, simply and very professionally by any person who can weld proficiently. Earthing to the building frame [foundations or rebar] is permitted under the E.W.R. of New Zealand and the use of WRICON Earthing System has obvious advantages:-

- Reinforcing steel in concrete foundations provides an indestructible earth electrode.
- Wricon earth lead is safely cast within the concrete and can not be severed by digging or theft.
- CADWELD welded connections [unlike compression connections] do not deteriorate. Additionally this system

prevents galvanic corrosion and high resistance joints, permanently.

- Lower resistance to earth than conventional methods and is much less subject to seasonal changes.



FOR CONNECTIONS TO CONCRETE REINFORCING MESH AS SHOWN ABOVE



### WHEN ORDERING YOUR WRICON...

Please have the following information at hand when ordering your WRICON

**CONNECTION STYLE** – What are you connecting to

**CONDUCTOR SIZE** – 35mm<sup>2</sup>, 95mm<sup>2</sup> etc

CAT NO.	DESCRIPTION	CONDUCTOR SIZE mm <sup>2</sup>	LENGTH M
TNC-6-CK	DOMESTIC WRICON INCLUDING CLAMP KIT	6	10
TNC-6-BT	DOMESTIC WRICON BARE TAIL WITHOUT PLATE	6	10
TNC-16	WRICON EARTHING SYSTEM WITH PLATE	16	3
TNC-16-BT	WRICON EARTHING SYSTEM BARE TAIL WITHOUT PLATE	16	3
TNC-35	WRICON EARTHING SYSTEM WITH PLATE	35	3
TNC-35-BT	WRICON EARTHING SYSTEM BARE TAIL WITHOUT PLATE	35	3
TNC-50	WRICON EARTHING SYSTEM WITH PLATE	50	3
TNC-50BT	WRICON EARTHING SYSTEM BARE TAIL WITHOUT PLATE	50	3
TNC-70	WRICON EARTHING SYSTEM WITH PLATE	70	3
TNC-70-BT	WRICON EARTHING SYSTEM BARE TAIL WITHOUT PLATE	70	3
TNC-95	WRICON EARTHING SYSTEM WITH PLATE	95	3
TNC-95BT	WRICON EARTHING SYSTEM BARE TAIL WITHOUT PLATE	95	3
TNC-120	WRICON EARTHING SYSTEM WITH PLATE	120	3
TNC-120BT	WRICON EARTHING SYSTEM BARE TAIL WITHOUT PLATE	120	3

Note: Customised Wricon Lengths are available on request

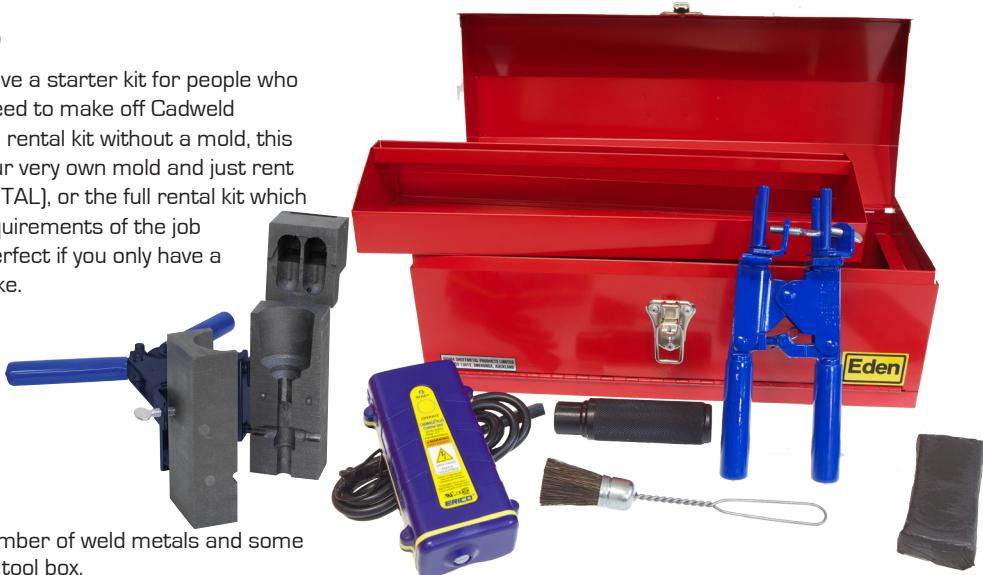
## CADWELD PLUS KITS

There are three kits available, we have a starter kit for people who want to purchase everything they need to make off Cadweld connections (CADWELDPLUSKIT), a rental kit without a mold, this gives you the option to purchase your very own mold and just rent the rest of the gear (CADWELDRENTAL), or the full rental kit which includes the mold specific to the requirements of the job (MOLDRENTALKIT), this last kit is perfect if you only have a small number of connections to make.

**All kits listed below include:**

- Mold Cleaning Brush
- Mold Sealing Putty
- Cadweld Plus Control Unit
- Mold Handles - L160
- Earth Rod Driving Tool

There is enough room to store a number of weld metals and some protective gloves and glasses in the tool box.



**Note:** Rental kits are rented by the day only.

For Rental Kit with Mold order form, please see the end of this section.

CAT NO.	DESCRIPTION	KIT CONTENTS
CADWELDPLUSKIT	STARTER KIT	CLEANING BRUSH, HANDLES, EARTH ROD DRIVING TOOL, CONTROL UNIT, TOOL BOX
CADWELDRENTAL	RENTAL KIT	CLEANING BRUSH, HANDLES, EARTH ROD DRIVING TOOL, CONTROL UNIT, TOOL BOX
MOLDRENTALKIT	MOLD RENTAL	MOLD, 10 WELD METALS (additional charge), CLEANING BRUSH, HANDLES, EARTH ROD DRIVING TOOL, CONTROL UNIT, TOOL BOX

## MOLD HANDLES

For most lug, cable or rectangular bus connections, handle clamps are used. These handle clamps are available in two sizes and between them fit many different sizes and types of molds. To secure them in place simply tighten the positioning screws.



CAT NO.	DESCRIPTION	MOLD TYPE
L160	CADWELD PLUS MOLD HANDLES	C, R
L159	CADWELD PLUS MOLD HANDLES	D, F

## MOLD CLEANING BRUSH

This soft bristle brush is used to clean the graphite mold without causing damage or undue wear to it.



CAT NO.	DESCRIPTION
T310	MOLD CLEANING BRUSH

## CONTROL UNIT + LEAD

The CADWELD® PLUS Control Unit initiates the reaction of the metal crucible. The unit includes a 6 foot long, high temperature, control unit lead. The lead attaches to the ignition strip using a custom made, purpose-designed termination clip. After the termination clip is installed on the ignition strip, the installer pushes and holds the ignition button to start a charging and discharging sequence. Within a few seconds the control unit sends a predetermined voltage to the ignition strip and the reaction is initiated.

CAT NO.	DESCRIPTION
PLUSCU	CADWELD PLUS CONTROL UNIT + LEAD



## REPLACEMENT LEAD

Six foot long, high temperature control unit lead, comes complete with quick connect terminals for easy replacement if existing lead is damaged.

CAT NO.	DESCRIPTION
PLUSCULDQC	CADWELD PLUS REPLACEMENT LEAD, QUICK CONNECT



## MOLD SEALING PUTTY

Used to prevent molten weld metal from leaking out of the mold. When the cable opening becomes worn from heavy use, sealing putty can be used to extend the mold life. 7 strand cable also requires sealing putty as it is prone to leakage around strands.

CAT NO.	DESCRIPTION
T403	1lb MOLD SEALING PUTTY



## GEM - GROUND ENHANCEMENT MATERIAL

GEM is a low-resistance, non-corrosive, carbon dust-based material that improves grounding effectiveness, especially in areas of poor conductivity or where ground rods can't be driven. GEM hardens when set, to become a conductive concrete that is permanent, maintenance-free and will never leach or wash away. GEM does not adversely affect soil and will not leach ions or contaminate ground water.

CAT NO.	DESCRIPTION
GEM25A	GROUND ENHANCING MATERIAL, 25LB BAG



## EARTH IDENTIFICATION TAG

Plastic earth tag, attaches to the main earth for easy identification. Tag is easy to install and UV stabilised for a longer life.

CAT NO.	DESCRIPTION
55002936	GREEN PLASTIC EARTH LABEL



## CADWELD MOLD RENTAL

1. Tick a box to identify the mold size you require
2. Enter number of connections to be made (10 weld metals will be charged for & supplied with each rental)
3. Complete the customer details
4. Complete the end user details
5. Fax or email to TransNet



### 1. CONNECTION SELECTION

NOTE: All rental molds are for GT type connection style, Kit contains all parts required to make 10 connections

#### Hire Molds for 13mm Ground Rods

- 35mm<sup>2</sup>
- 50mm<sup>2</sup>
- 70mm<sup>2</sup>
- 95mm<sup>2</sup>
- 120mm<sup>2</sup>

#### Hire Molds for 15mm Ground Rods

- 35mm<sup>2</sup>
- 50mm<sup>2</sup>
- 70mm<sup>2</sup>
- 95mm<sup>2</sup>
- 120mm<sup>2</sup>



Rental Molds offer GT Style Connection Only (cable to ground rod)

### 2. NUMBER OF CONNECTIONS

NOTE: Minimum of 10 connections catered for in each rental

QTY \_\_\_\_\_

### 3. CUSTOMER/WHOLESALE DETAILS

Company: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

### 4. END USER/CONTRACTOR DETAILS

Company: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Contact No: \_\_\_\_\_

Date Required: \_\_\_\_\_

Delivery Address (Customer Can Collect): \_\_\_\_\_

Estimated Rental Days (No Half Days): \_\_\_\_\_

#### \* RETURN MOLD KIT TO - CONTRACT CONNECTIONS, 20 Kerwyn Ave, East Tamaki

Additional costs will be incurred if goods are damaged

#### 5. FAX OR EMAIL THIS FORM - 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

#### TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested By: \_\_\_\_\_

Date: \_\_\_\_\_

#### CONTRACT CONNECTIONS LTD USE ONLY

Ship Date: \_\_\_\_\_

Actual Return Date: \_\_\_\_\_

Total Number of Days Hire: \_\_\_\_\_

Return Condition of Goods: \_\_\_\_\_

Entered By: \_\_\_\_\_

# GLANDS AND DUCT SEALING SYSTEMS

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## IP RATING

### What is an IP rating?

The following information is an extract from AS/NZ 1939 which gives the degrees of protection relating to IP rating. An IP rating is made up of two numbers, the first relating to solid objects and dust ingress and the second to water ingress.

### FIRST NUMERAL OF AN IP RATING (AS/NZ 1939) SOLID OBJECTS/DUST PROTECTION

0	Non-protected
1	Protected against solid objects greater than 50mm
2	Protected against solid objects greater than 12mm
3	Protected against solid objects greater than 2.5mm
4	Protected against solid objects greater than 1.0mm
5	Dust protected
6	Dust tight

### SECOND NUMERAL OF AN IP RATING (AS/NZ 1939) WATER PROTECTION

0	Non-protected
1	Protected against dripping water
2	Protected against dripping water when tilted up to 15 degrees
3	Protected against spraying water
4	Protected against splashing water
5	Protected against water jets
6	Protected against heavy seas
6D	Protected against driving rain
7	Protected against the effect of immersion
8	Protected against submersion

## NYLON CABLE GLANDS IP68

TransNet's range of Halogen Free Nylon Glands have a proven cable sealing mechanism making the gland IP68 rated. Disassembly is not required for installation of the gland – simply position the cable and tighten the gland. These glands accommodate a wide range of conductors meaning a reduced stock inventory.

In order to maintain the IP68 rating of the gland after installation, the interface with the equipment needs a seal. TransNet glands

### KEY FEATURES

- IEC 698
- Accommodates a wide range of conductors
- UV stable material for extended life
- Long metric thread to aid installation
- Halogen Free
- UL Nylon 66 94V-2 Halogen Free
- -40°C to 100°C (can run for short intervals to 120°C)
- Strength: 110N/mm<sup>2</sup> working, 240 N/mm<sup>2</sup> ultimate
- Density 1.35g/CM<sup>3</sup>
- Very resistant to;
  - Petrol
  - Diesel
  - Mineral oils
  - Strong alkalis
  - Weak acids

are supplied with a neoprene seal for the interface. Care must be taken to ensure the gland is not over tightened causing damage to the seal. The glands have a sealing ridge moulded into the base which works well with equipment with built in threads and a flat base for the gland to bed into – the seal is not required in these instances. It is advisable to use an appropriate sealing compound when IP rating is critical.



CAT NO.	CABLE THREAD	CABLE O.D. RANGE mm	WIDTH OF THREAD mm	LOCK NUT mm	PACK SIZE
TNGN12	M12	4.6-7.6	8.5	19	40
TNGN16	M16	6-10	15	24	40
TNGN20	M20	9-14	15	30	25
TNGN25	M25	13-18	15	36	15
TNGN32	M32	18-25	15	46	5
TNGN40	M40	24-30	20	57	5
TNGN50	M50	30-39	23	67	2
TNGN63	M63	40-48.5	24	81.5	2

\*Nylon glands come complete with locknut and seal

## METRIC BRASS LOCKNUTS NICKEL SILVER PLATED

CAT NO.	DESCRIPTION	PACK SIZE
TNLNM12	BRASS LOCKNUT 12mm	40
TNLNM16	BRASS LOCKNUT 16mm	20
TNLNM20	BRASS LOCKNUT 20mm	20
TNLNM25	BRASS LOCKNUT 25mm	10
TNLNM32	BRASS LOCKNUT 32mm	5
TNLNM40	BRASS LOCKNUT 40mm	3
TNLNM50	BRASS LOCKNUT 50mm	1
TNLNM63	BRASS LOCKNUT 63mm	1

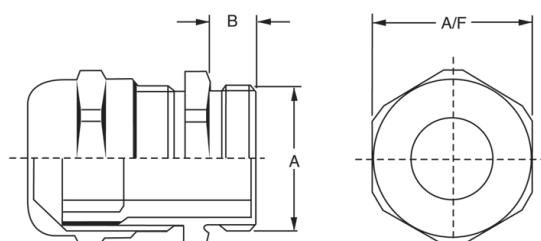


\*TNGU, TNA2 and TNCW glands all come complete with lock nuts

## METAL CABLE GLANDS UNARMOURED IP68

TransNet Metal Glands are made to the highest quality. Installation is extremely simple, just pass the cable through the assembled gland and tighten the nut until the cable is secured. There is no need to disassemble the gland. Perfect gland for unarmoured PVC, XLPE and other synthetic cables.

- IP68 rating – fully submersible
- Large cable range with each gland
- Nickel plated brass for corrosion protection
- Fully insulated by plastic insert
- Neoprene seal for fluid tightness
- Brass nickel plated Polyamide 6 Insert (self extinguishing) Neoprene seal & O-ring (both self extinguishing)
- Continuous Operating temperature -20°C to +100°C
- Resistant to normal organic solvents, mineral, animal and vegetable oils, fat and petrol
- Conformant Standard: DIN 46 319 – brass glands metric
- Threading: According to IEC 423, IEC 423A and EN 60423 Strain Relief and Twisting Protection To DIN VDE 0619



### INCLUDES LOCKNUT

CAT NO.	MOUNTING THREAD A DIA. mm	MOUNTING THREAD B LENGTH mm	CABLE O.D. RANGE mm	WIDTH A/F mm	RECOMMENDED TORQUE NM	PACK SIZE
TNGU12	12	10	3-6	14	6	40
TNGU16	16	10	5-9	17	6	20
TNGU20	20	10	9-13	22	6	20
TNGU25	25	11	11-16	27	7	10
TNGU32	32	13	14-21	34	10	5
TNGU40	40	13	19-27	43	10	3
TNGU50	50	13	24-35	55	10	1
TNGU63	63	14	32-42	65	10	1

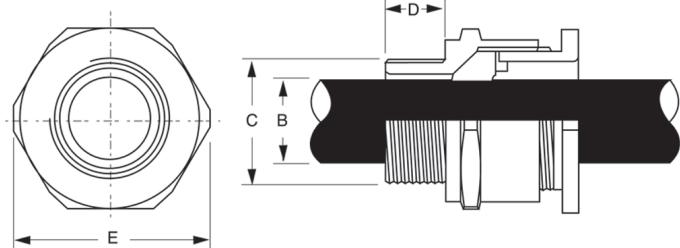
## METAL A2 CABLE GLANDS UNARMOURED IP66

TransNet's TNA2 range of IP66 unarmoured Brass Glands, are designed for general purpose use with PVC and XLPE cables. They have a neoprene seal that clamps onto the sheath of the cable, and this is fully weatherproof.

- These glands cover a wide range of cable sizes because of the unique seal, which simplifies gland selection, and reduces inventories
- Made of nickel plated brass ensuring superior corrosion protection
- Suitable for unarmoured PVC and XLPE insulated armoured cables
- Conform to BS612: Part 1: 1989

### KEY FEATURES

- BODY: Brass
- SEAL: Neoprene rubber
- FINISH: Nickel plated
- IP66



### INCLUDES LOCKNUT

CAT NO.	MOUNTING THREAD mm DIA. [C] mm	LENGTH [D]	CABLE RANGE (B) mm	WIDTH (E) mm	SHROUD NO. FOR GLAND	PACK SIZE
TNA2-20S	20	10	6.1-11.6	26.5	1	20
TNA2-20	20	10	6.5-13.9	30.0	2	20
TNA2-25	25	10	11.1-19.9	39.9	3	10
TNA2-32	32	10	17.0-26.2	46.0	3	5
TNA2-40	40	15	22.0-32.1	55.3	4	3
TNA2-50S	50	15	29.5-38.1	61.3	5	2
TNA2-50	50	15	35.6-44.0	66.8	5	2
TNA2-63S	63	15	40.1-49.9	77.5	6	1
TNA2-63	63	15	47.2-55.9	83.2	6	1
TNA2-75	75	15	60.5-67	94	7	1
TNA2-90	90	20	68-78	112.8	N/A	1
TNA2-100	100	25	78-88	131	N/A	1
TNA2-110	110	25	87-98	144.2	N/A	1

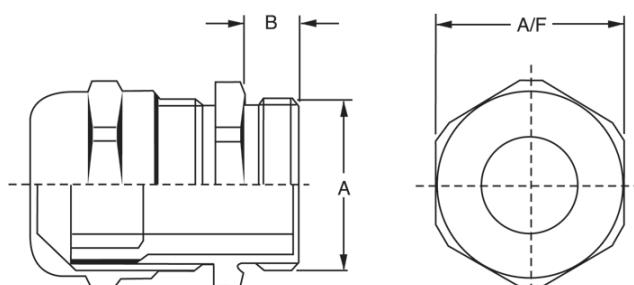
## EMC METAL CABLE GLANDS IP68

EMC — Electro Magnetic Compatibility glands are designed to enable an electrical or electronic device/system to operate in its electro magnetic environment without introducing intolerable EMI interference to that environment. EMC is designed not only to protect susceptible devices but also to control emissions of interference.

In order to effectively terminate EMC cables, an EMC gland is required. The full metric range is available along with EMC specific locknuts to suit. To ensure compatibility, the gland must be terminated into a metal enclosure or terminal box. The shielding is terminated into the bottom of the gland and the gland is then connected to the enclosure.

### KEY FEATURES

- Temperature Range: -40°C to 80°C, [up to 100°C for short periods]
- Silicone, phosphorous, cadmium free
- IP68
- Halogen free
- Self extinguishing



CAT NO.	MOUNTING DIA. mm [A]	THREAD LENGTH mm [B]	CABLE RANGE mm	WIDTH mm [A/F]	ASSEMBLED LENGTH mm	PACK SIZE
TNGU16EMC	16	10	6-9	17	20	20
TNGU20EMC	20	10	8-12	22	22	20
TNGU25EMC	25	10	11-17	27	24	10
TNGU32EMC	32	13	16-21	34	28	5
TNGU40EMC	40	13	19-28	43	30	3
TNGU50EMC	50	14	26-35	55	32	2
TNGU63EMC	63	14	32-47	68	34	2

## EMC LOCKNUTS

These EMC locknuts have sharp 'barbs' to cut an earthing path into the metal enclosure, through paint or most surface coverings. All our EMC glands come complete with an EMC lock nut.

CAT NO.	TO SUIT	THREAD	PACK SIZE
TNLNM16EMC	TNGU16EMC	M16	20
TNLNM20EMC	TNGU20EMC	M20	20
TNLNM25EMC	TNGU25EMC	M25	10
TNLNM32EMC	TNGU32EMC	M32	5
TNLNM40EMC	TNGU40EMC	M40	3
TNLNM50EMC	TNGU50EMC	M50	2
TNLNM63EMC	TNGU63EMC	M63	2



## METAL CW GLANDS, ARMOURED CABLES IP66 – GENERAL PURPOSE

Designed for general purpose use with steel wire armoured cables. These glands are suitable for weatherproof applications.

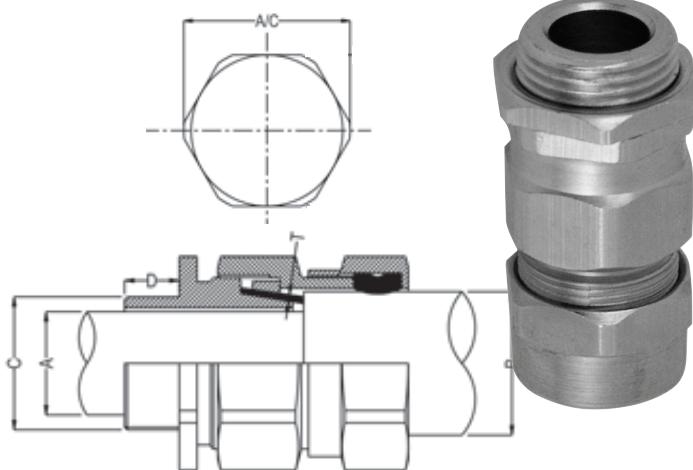
- Wedge seal causes the seal to deflect inwards much quicker and easier than conventional glands
- Each gland covers a large cable range reducing inventories
- Easy and fast to install
- Conform to BS 6121: Part 1: 1989
- Nickel plated brass ensuring superior corrosion protection
- Neoprene seal
- IP66
- Suitable for armoured PVC & XLPE insulated armoured cables

Select the gland required using the over and under armour dimensions, in the table below. This data can be found in the cable manufacturer's technical books or by measuring the cable.

### INCLUDES LOCKNUT

CAT NO.	MOUNTING THREAD		CABLE DIMENSIONS ACCOMMODATED (mm)				DIA. A/C mm	SHROUD NO. FOR GLAND	BOX QTY.
	DIA. C mm	LENGTH D mm	UNDER ARMOUR DIA. A MAX	OVERALL DIA. B MIN MAX	ARMOUR WIRE DIA.				
TNCW20/1620SS	20	15	8.6	8.0 – 13.4	0.9	24.5	0	20	
TNCW20S	20	15	11.6	11.4 – 15.9	0.9/1.25	26.5	1	20	
TNCW20	20	15	13.9	15.0 – 20.9	0.9/1.25	30.0	2	20	
TNCW25	25	15	19.9	20.3 – 27.4	1.25/1.6	39.9	3	10	
TNCW32	32	15	26.2	26.0 – 33.9	1.6/2.0	46.0	3	5	
TNCW40	40	15	32.1	31.0 – 40.4	1.6/2.0	55.3	4	3	
TNCW50S	50	15	38.1	36.5 – 46.7	2.0/2.5	61.3	5	2	
TNCW50	50	15	44.0	43.0 – 53.1	2.0/2.5	66.8	5	2	
TNCW63S	63	15	50.0	48.9 – 59.4	2.5	77.5	6	1	
TNCW63	63	15	55.9	58.0 – 65.9	2.5	83.2	6	1	

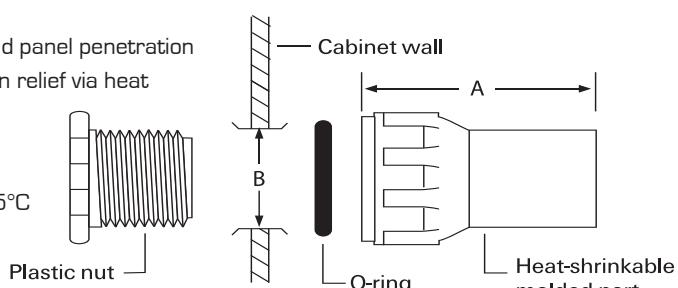
**Note:** This chart should be used as a guide only. Cable dimensions vary by manufacturer and insulation type.



## CFTS – HEATSHRINK FEED THROUGH CABLE GLANDS

### APPLICATIONS

- Sealing of bulkhead, equipment box and panel penetration
- Provides environmental seal and strain relief via heat activated adhesives
- Elastomeric 'O' ring with each part to accommodate irregularities on panel
- Operating temperatures -55°C to 135°C
- Cabinet wall thickness of 5mm is recommended

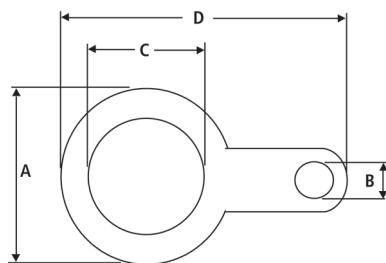


CAT NO.	CABLE DIAMETER mm	LENGTH (A) mm	RECOMMENDED HOLE SIZE (B) mm
CFTS-1	5-10	70	25
CFTS-2	6-17	70	25
CFTS-3	14-25	95	35
CFTS-4	20-37	114	51
CFTS-5	37-61	178	89

## GLAND ACCESSORIES

### EARTH TAG

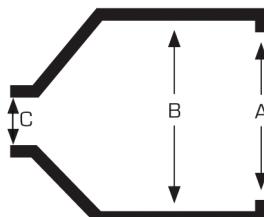
Earth Tags are made of brass and are used for earthing metal glands. They have a hole in the tag end for connecting the earth conductor to. Simple to use, just slip on before installation.



CAT NO.	DIMENSIONS mm				MATERIAL THICKNESS mm
	A	B	C	D	
TNET16	27	7	16	50	1.2
TNET20	29	7	20	50	1.2
TNET25	36	7	26	61	1.2
TNET32	44	7	32	70	1.2
TNET40	52	7	40	84	1.2
TNET50	64	7	51	94	1.4
TNET63	78	7	64	109	1.4

### PVC GLAND SHROUD

TransNet's gland shrouds are made from flexible PVC material in order to accommodate a large range of conductors. They are black, halogen free, flame retardant and low smoke.



CAT NO.	DIMENSIONS mm		
	A	B	C
TNSH0	20	25.5	13
TNSH1	25	30	16
TNSH2	30	36.5	20
TNSH3	40	45	25.5
TNSH4	48	57	32
TNSH5	60	73	40.5
TNSH6	78	87	50.5
TNSH7	93	100	80

**Note:** Gland Shrouds are designed for use with CW and A2 Gland ranges only. Shrouds will stretch, dimensions listed are a guide based on minimum size.

# CCG – PREMIUM INDUSTRIAL GLANDS

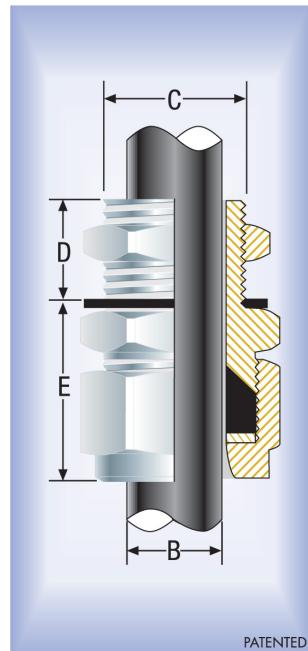
## CCG A2 COMPRESSION GLAND FOR FLEXIBLE CABLES

### FEATURES

- For indoor and outdoor use.
- Seals the cable sheath to IP68
- Specially formulated elastomeric seals
- Wide sealing range
- Precision manufactured from high quality brass and nickel plated, available in Aluminium or Stainless Steel on request
- Complete with high quality brass locknuts and IP gasket

### TECHNICAL DATA

GLAND MATERIAL	Brass (Nickel Plated) BS 2874, EN12164 Aluminium ASTM BS221, Stainless Steel 316
SEAL MATERIAL	Thermoplastic Elastomer (Silicone on request)
CABLE TYPE	Unarmoured
SEALING AREA	Outer Sheath
OPTIONAL ACCESSORIES	Locknut, Shroud, Earth Tag, Adaptor/Reducer
INGRESS PROTECTION	IP66/68
OPERATING TEMPERATURE	-30°C to 130°C
STANDARDS	ANZS 3000, BS 6121-5, BS 7671, BS 7430, IEC 60364-5-54, SANS 0142



CAT NO.	GLAND SIZE REFERENCE	ENTRY THREAD		CABLE DETAILS		MAX LENGTH (E)	HEXAGONAL DETAILS MAX	
		METRIC (C)	MIN (D)	MIN (B)	MAX (B)		FLATS	CORNERS
TN-053500-16	00-16	M16x1.5	10	1.0	6.0	20	17	19
TN-053500	00-20SS	M20x1.5	10	3.0	8.0	20	24	27
TN-0535-0	0-20S	M20x1.5	10	7.0	11.0	20	24	27
TN-053501	1-20	M20x1.5	10	11.0	15.5	24	27	31
TN-053502	2-25	M25x1.5	10	15.0	20.5	25	35	40
TN-053503	3-32	M32x1.5	10	20.0	26.5	30	42	48
TN-053504	4-40	M40x1.5	10	26.0	34.5	30	52	60
TN-053505	5-50	M50x1.5	10	34.0	44.5	42	65	75
TN-053506	6-63	M63x1.5	10	44.0	57.0	48	82	94
TN-053507	7-75	M75x1.5	20	56.0	68.0	50	96	110
TN-053508	8-80	M80x2.0	20	65.0	74.0	55	96	110
TN-053509	9-90	M90x2.0	20	73.0	82.0	60	110	125
TN-053510	*10-100	M100x2.0	20	81.0	92.0	74	-	-
TN-053511	*11-110	M110x2.0	20	91.0	102.0	92.5	-	-
TN-053512	*12-120	M120x2.0	28	101.0	110.0	92.5	-	-
TN-053513	*13-130	M130x2.0	28	109.0	120.0	92.5	-	-

All dimensions are in mm. \*Sizes 10 to 13 are of round slotted material, for use with CCG 'C' spanner.

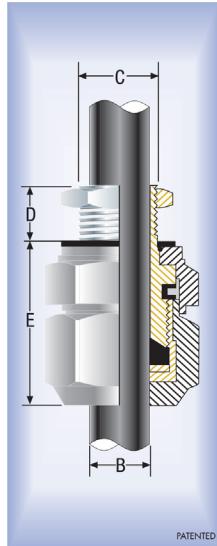
## CCG POSI FLEX COMPRESSION GLAND FOR FLEXIBLE CABLE

### FEATURES

- For use in highly corrosive areas
- All brass parts encapsulated in a non-corrosive body
- Wide sealing range
- Complete with a fitted elastomeric seal to seal cable IP68
- Supplied with a brass locknut and polypropylene gasket

### TECHNICAL DATA

GLAND MATERIAL	Brass encapsulated in glass reinforced polyester/PBT
SEAL MATERIAL	Thermoplastic Elastomer
CABLE TYPE	Unarmoured
SEALING AREA	Outer Sheath
INGRESS PROTECTION	IP66/68
OPERATING TEMPERATURE	-30°C to 130°C
STANDARDS	ANZS 3000, BS6121-5, BS 7671, BS 7430, IEC 60364-5-54, SANS 0142



CAT NO.	GLAND SIZE REFERENCE	ENTRY THREAD		CABLE DETAILS		MAX LENGTH (E)	HEXAGONAL DETAILS MAX	
		METRIC (C)	MIN (D)	MIN (B)	MAX (B)		FLATS	CORNERS
TN-053800	*00-20SS	M20x1.5	15	3.0	8.0	33	28	31.5
TN-0538-0	*0-20S	M20x1.5	15	7.0	11.0	33	30	33.5
TN-053801	*1-20	M20x1.5	15	11.0	14.5	37	34	36.5
TN-053802	*2-25	M25x1.5	15	14.5	20.5	40	42	48.5
TN-053803	*3-32	M32x1.5	15	20.0	26.5	50	52	58.0
TN-053804	4-40	M40x1.5	20	26.0	34.5	57	62	67.5

All dimensions are in mm. \*For use with CCG Handi Fit Boxes. For sizes larger than 4-40 use CCG Posi Grip Cable Glands.

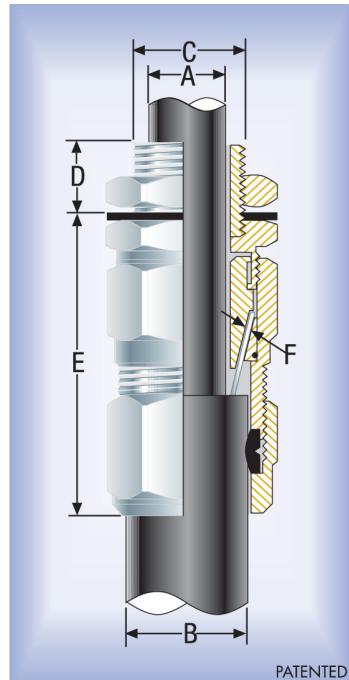
## CCG CW CAPTIVE COMPONENT GLAND FOR SWA & ALUMINIUM ARMOURED CABLE

### FEATURES

- For indoor and outdoor use
- Two piece handling, no loose parts
- Freely rotating captive cone and cone ring, providing an armour clamp and earth bond without twisting the armouring
- Patented disconnect armoured clamp system for ease of inspection
- Provides a seal on the outer sheath of the cable sealing to IP66
- Precision manufactured from high quality brass and nickel plated. Complete with high quality brass locknut. Also available in Aluminium and Stainless Steel

### TECHNICAL DATA

GLAND MATERIAL	Brass (Nickel Plated) BS 2874, EN 12164 Aluminium ASTM B221, Stainless Steel 316
SEAL MATERIAL	Thermoplastic Elastomer
CABLE TYPE	Steel Wire Armour / Aluminium Armour Wire
ARMOUR CLAMPING	Captive Rotating Cone
SEALING AREA	Outer Sheath
OPTIONAL ACCESSORIES	Shroud, Adaptor/Reducer, Locknut, Earth Tag
INGRESS PROTECTION	IP66
OPERATING TEMPERATURE	-30°C to 130°C
STANDARDS	ANZS 3000, BS6121-5, BS 7671, BS 7430, IEC 60364-5-54, SANS 0142



CAT NO.	GLAND SIZE REFERENCE	ENTRY THREAD		CABLE DETAILS			LENGTH MAX (E)	ARMOUR DIA MIN (F)	HEX DETAILS MAX	FLATS	CORNERS
		METRIC (C)	MIN (D)	MAX (A)	MIN (B)	MAX (B)					
TN-051200-16	*00-16SS	M16x1.5	10	8.0	8.0	13.5	41	0.9	-	24	27
TN-051200	*00-20SS	M20x1.5	10	8.0	8.0	13.5	41	0.9	-	24	27
TN-0512-0	*0-20SS	M20x1.5	10	12.0	11.5	16.0	43	0.9	1.25	24	27
TN-051201	*1-20	M20x1.5	10	15.5	14.5	21.0	47	0.9	1.25	27	31
TN-051202	*2-25	M25x1.5	10	20.5	20.5	27.0	56	1.25	1.6	35	40
TN-051203	*3-32	M32x1.5	10	26.5	26.5	33.5	57	1.60	2.0	42	48
TN-051204	4-40	M40x1.5	15	34.5	33.0	43.0	68	1.60	2.0	52	60
TN-051205	5-50	M50x1.5	15	44.5	42.5	52.5	72	2.0	2.5	65	75
TN-051206	6-63	M63x1.5	15	57.0	52.0	65.5	89	2.0	2.5	80	90
TN-051207	7-75	M75x1.5	15	68.0	65.0	78.0	97	2.5	3.0	96	110
TN-051208	8-80	M80x2.0	20	73.0	77.5	82.0	98	2.5	3.0	100	115
TN-051209	9-90	M90x2.0	20	81.0	81.0	91.0	123	3.0	3.5	110	125
TN-051210	**10-100	M100x2.0	20	91.0	90.0	101.0	124	3.0	3.5	-	-
TN-021211	**11-110	M110x2.0	20	98.0	100.0	114.0	134	3.0	4.0	-	-
TN-051212	**12-120	M120x2.0	20	103.0	103.0	118.0	136	3.0	4.0	-	-
TN-051213	**13-130	M130x2.0	20	115.0	113.0	124.0	140	3.0	4.0	-	-

All dimensions are in mm. \*Supplied with fixed cone and bush. \*For use with CCG Handi Fit Boxes.

\*\*Size 10 is of round slotted material, for use with CCG 'C' Spanner.

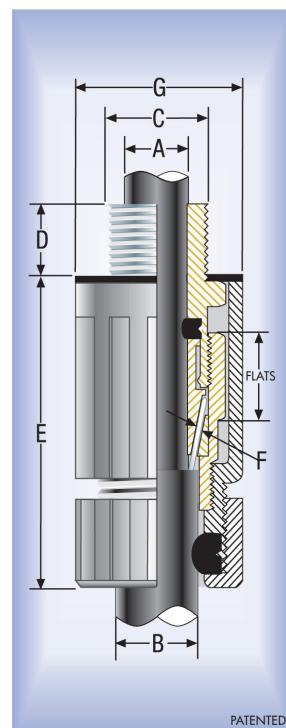
## CCG IPLUS CORROSION GUARD CAPTIVE COMPONENT GLAND FOR SWA CABLE

### FEATURES

- For highly corrosive and wet locations.
- Cable gland manufactured from high quality brass (Nickel plated)
- The screw-on Corrosion Guard is manufactured from non-corrosive material to protect the SWA and metal parts of the gland
- Provides sealing on inner and outer sheath of the cable sealing to IP66/68
- Corrosion guard screws onto the gland body and seals over the outer sheath of the cable giving an IP66/68 seal
- Complete with high quality brass locknuts and polypropylene gasket

### TECHNICAL DATA

GLAND MATERIAL	Brass (Nickel Plated) BS 2874, EN 12164
CORROSION GUARD MATERIAL	Glass reinforced polyester compound / PBT
SEAL MATERIAL	Thermoplastic Elastomer
CABLE TYPE	Steel Wire Armour (SWA)
ARMOUR CLAMPING	Captive rotating cone and cone ring
SEALING AREA	Outer Sheath and total enclosure of the metal body gland
INGRESS PROTECTION	IP66/68
OPERATING TEMPERATURE	-30°C to 130°C
STANDARDS	ANZS 3000, BS6121-5, BS 7671, BS 7430, IEC 60364-5-54, SANS 0142



CAT NO.	GLAND SIZE REFERENCE	ENTRY THREAD		CABLE DETAILS MIN-MAX		ARMOUR DIA MIN [F]	ARMOUR DIA MAX [F]	LENGTH MAX [E]	MAX DIA [G]
		METRIC (C)	MIN (D)	(A)	(B)				
TN-054600-16-IP	00-16SS	M16x1.5	15	3.0-8.0	8.0-13.5	0.2	1.25	53	35.0
TN-054600-IP	*00-20SS	M20x1.5	15	3.0-8.0	8.0-13.5	0.2	1.25	53	35.0
TN-0546-0-IP	*0-20SS	M20x1.5	15	7.0-12.0	11.5-16.0	0.2	1.25	53	35.0
TN-054601-IP	*1-20	M20x1.5	15	9.0-15.5	14.5-21.0	0.2	1.25	56	36.5
TN-054602-IP	*2-25	M25x1.5	15	14.0-20.5	20.5-27.0	0.2	1.6	60	46.0
TN-054603-IP	*3-32	M32x1.5	15	19.0-26.5	26.5-33.5	0.2	2.0	66	53.0
TN-054604-IP	4-40	M40x1.5	20	26.0-34.5	33.0-43.0	0.3	2.0	78	68.0
TN-054605-IP	5-50	M50x1.5	20	34.0-44.5	42.5-52.5	0.4	2.5	87	84.0
TN-054606-IP	6-63	M63x1.5	20	44.0-57.0	52.5-65.5	0.4	2.5	110	110.0
TN-054607-IP	7-75	M75x1.5	20	56.0-68.0	65.5-78.0	0.4	3.0	118	124.0

All dimensions are in mm. \*For use with CCG Handi Fit Boxes.

# CCG - EXPLOSION PROOF GLANDS

## CCG A2F EX DE IIC COMPRESSION GLAND FOR FLEXIBLE CABLE

### FEATURES

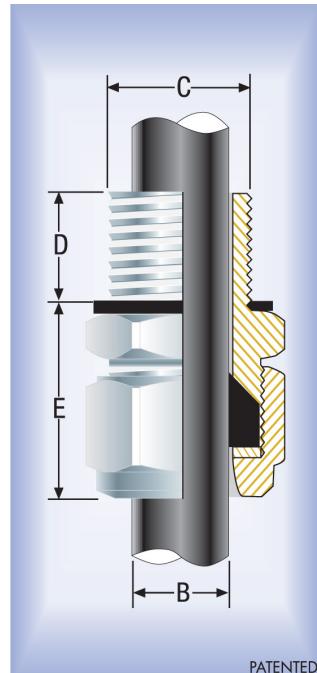
- For indoor, outdoor use and hazardous areas
- Fitted with specially formulated elastomeric displacement seal, giving superior cable retention, explosive protection and IP rating
- Precision manufactured from high quality Brass (Nickel plated) or Stainless Steel
- Supplied with a polypropylene or neoprene sealing gasket and end cap, safety gauge for correct gland selection

### TECHNICAL DATA

GLAND MATERIAL	Brass (Nickel Plated) or Stainless Steel	
SEAL MATERIAL	Thermoplastic Elastomer (Silicone on request)	
CABLE TYPE	Unarmoured	
SEALING AREA	Outer Sheath	
OPTIONAL ACCESSORIES	Locknut, Shroud, Earth Tag and Adaptor/Reducer	
INGRESS PROTECTION	IP66/68	
OPERATING TEMPERATURE	-20°C to 80°C	
STANDARDS	Aus/NZ/IEC ANZEx 09.4079X: AS/NZS 60079-0, AS/NZS 60079-1, AS/NZS 60079-7, AS/NZS 61241.1, AS/NZS 60529	

### HAZARDOUS AREA CERTIFICATION

SANS IEC, AS/NZS IEC, CNEx:	Zone 1, 2, 21 and 22 Ex de IIC, Ex tD A21
ATEX:	Category 2, Category 3, Ex de II2 GD, IIC



CAT NO.	GLAND SIZE REFERENCE	ENTRY THREAD			CABLE DETAILS		LENGTH MAX (E)	HEX DETAILS MAX	
		METRIC (C)	MIN (D)	NPT (C)	MIN (B)	MAX (B)		FLATS	CORNERS
TN-054100-16	00-16SS	M16x1.5	15	0.5/0.75	3.0	8.0	25	24	27
TN-054100	00-20SS	M20x1.5	15	0.5/0.75	3.0	8.0	25	24	27
TN-0541-0	0-20S	M20x1.5	15	0.5/0.75	7.0	11.0	25	24	27
TN-054101	1-20	M20x1.5	15	0.5/0.75	11.0	15.5	30	27	31
TN-054102	2-25	M25x1.5	15	0.75/1	15.0	20.5	25	35	40
TN-054103	3-32	M32x1.5	15	1/1.25	20.0	26.5	30	42	48
TN-054104	4-40	M40x1.5	20	1.25/1.5	26.0	34.5	38	52	60
TN-054105	5-50	M50x1.5	20	1.5/2	34.0	44.5	43	65	75
TN-054106	6-63	M63x1.5	20	2/2.5	44.0	57.0	50	82	94
TN-054107	7-75	M75x1.5	20	2.5/3	56.0	68.0	54	96	110
TN-054108	8-80	M80x2.0	20	3	65.0	74.0	68	96	110
TN-054109	9-90	M90x2.0	20	3/3.5	73.0	82.0	70	110	125
TN-054110	10-100	M100x2.0	20	3.5/4	81.0	92.0	70	125	142
TN-054111	11-110	M110x2.0	20	4	91.0	102.0	70	135	153

All dimensions except NPT are in mm.

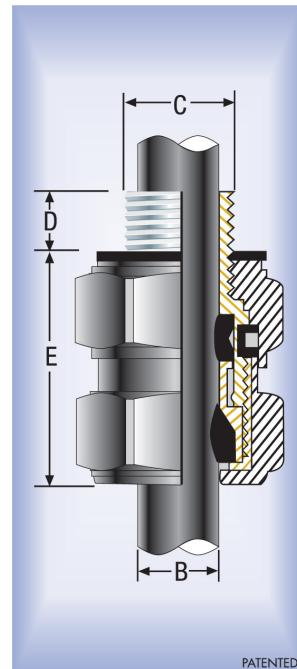
## CCG POSI GRIP EX E COMPRESSION GLAND FOR FLEXIBLE CABLE

### FEATURES

- For use in highly corrosive and hazardous areas
- Brass parts are encapsulated in a non-corrosive body
- Complete with a hard gripper seal, deluge proof O-Ring and elastomeric inner seal for complete ingress protection IP68
- Complete with a polypropylene sealing gasket and an end cap/safety gauge for correct gland selection

### TECHNICAL DATA

GLAND MATERIAL	Brass encapsulated in Glass Reinforced
Polyester/PBT	
SEAL MATERIAL	Thermoplastic Elastomer (Silicone on request)
CABLE TYPE	Unarmoured
SEALING AREA	Outer Sheath
OPTIONAL ACCESSORIES	Locknut
INGRESS PROTECTION	IP66/68
OPERATING TEMPERATURE	-30°C to 80°C
HAZARDOUS AREA CLASSIFICATION	
SANS IEC, ANZEx, CNEx:	Zone 1, 2, 21 and 22 Ex e IIC DIP A21
ATEX:	Category 2, Category 3, Ex e II 2 GD, IIC
STANDARDS	
Aus/NZ/IEC	ANZEx 08.2003U AS 2380.1, AS 2380.6



CAT NO.	GLAND SIZE REFERENCE	ENTRY THREAD		CABLE DETAILS DIA		LENGTH MAX (E)	HEX DETAILS MAX FLATS	CORNERS
		METRIC (C)	MIN (D)	MIN (B)	MAX (B)			
TN-054500	*00-20SS	M20x1.5	15	3.0	8.0	42	28	32
TN-0545-0	*0-20S	M20x1.5	15	8.0	12.0	42	30	34
TN-054501	*1-20	M20x1.5	15	11.0	15.5	46	34	36
TN-054502	*2-25	M25x1.5	15	15.0	20.5	51	42	47
TN-054503	*3-32	M32x1.5	15	20.0	26.5	60	52	58
TN-054504	4-40	M40x1.5	20	26.0	34.5	65	62	70
TN-054505	5-50	M50x1.5	20	34.0	44.5	75	74	83
TN-054506	6-63	M63x1.5	20	44.0	57.0	107	95	106
TN-054507	7-75	M75x1.5	20	56.0	68.0	107	110	124

All dimensions are in mm. \*For use with CCG Posi Fit Boxes.

## CCG E1EX EX DE IIC CAPTIVE COMPONENT GLAND FOR MULTI ARMOURED CABLE

### FEATURES

- For indoor, outdoor use and hazardous areas
- Two part handling, no loose parts. Multi armour captive cone and cone ring, providing an armour clamp and earth bond for steel wire armour, braid and tape armoured cable
- No need to reverse cones or cone rings or change seals to accommodate different armour cables
- Precision manufactured from high quality Brass (Nickel plated) or Stainless Steel. Patented disconnect system that allows inspection of armour clamp and inner seal after assembly
- Factory fitted captive elastomeric seals for built in safety. Seals on both inner and outer sheaths to IP66/68
- Complete with polypropylene sealing gasket and an end cap/safety gauge for correct gland selection

### TECHNICAL DATA

#### GLAND MATERIAL

Brass (Nickel Plated) or Stainless Steel

#### SEAL MATERIAL

Thermoplastic Elastomer (Silicone on request)

#### CABLE TYPE

Steel Wire, Braid, Tape Armour

#### ARMOUR CLAMPING

Multi Armour Cone and Cone Ring

#### SEALING AREA

Inner and Outer Sheath

#### OPTIONAL ACCESSORIES

Locknut, Shroud, Earth Tag and Adaptor/Reducer

#### INGRESS PROTECTION

IP66/68

#### OPERATING TEMPERATURE

-30°C to 80°C

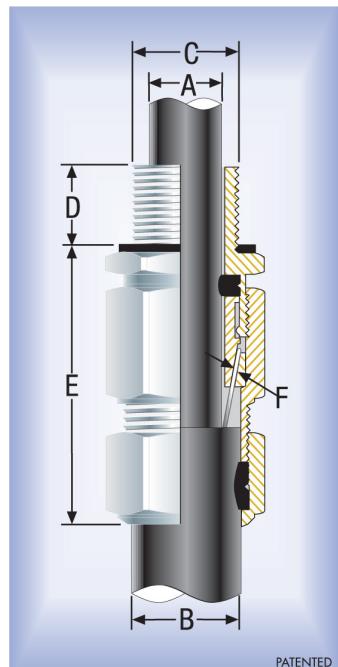
#### STANDARDS

Aus/NZ/IEC ANZEx 03.4083X: AS/NZS 60079-0, AS/NZS 60079-1, AS/NZS 60079-7, AS/NZS 61241.1, AS1939

#### HAZARDOUS AREA CLASSIFICATION

SANS IEC, AS/NZS IEC, CNEC: Zone 1, 2, 21 and 22 Ex de IIC, Ex de IIC DIP A21

ATEX: Category 2, Category 3, Ex de II 2 GD, IIC



CAT NO.	GLAND SIZE REF.	ENTRY THREAD			CABLE DETAILS MIN-MAX		ARMOUR DETAILS		LENGTH MAX (E)	HEX DETAILS MAX		INSTALL TORQUE VALUE (Nm)
		METRIC (C)	MIN (D)	NPT (C)	(A)	(B)	MIN (F)	MAX (F)		FLATS	CORNERS	
TN-052300-16	*00-16SS	M16x1.5	15	-	3.0-8.0	8.0-13.5	0.2	1.25	53	24	27	35
TN-052300	*00-20SS	M20x1.5	15	0.5	3.0-8.0	8.0-13.5	0.2	1.25	53	24	27	35
TN-0523-0	*0-20S	M20x1.5	15	0.5	7.0-12.0	11.5-16.0	0.2	1.25	53	24	27	35
TN-052301	*1-20	M20x1.5	15	0.5/0.75	9.0-15.5	14.5-21.0	0.2	1.25	56	27	31	35
TN-052302	*2-25	M25x1.5	15	0.75/1	14.0-20.5	20.5-27.0	0.2	1.6	60	35	40	50
TN-052303	*3-32	M32x1.5	15	1/1.25	19.0-26.5	26.5-33.5	0.2	2.0	66	42	48	70
TN-052304	4-40	M40x1.5	20	0.25/1.5	26.0-34.5	33.0-43.0	0.3	2.0	78	52	60	90
TN-052305	5-50	M50x1.5	20	1.5/2	34.0-44.5	42.5-52.5	0.4	2.5	87	65	75	100
TN-052306	6-63	M63x1.5	20	2/2.5	44.0-57.0	52.5-65.5	0.4	2.5	110	82	94	120
TN-052307	7-75	M75x1.5	20	2.5/3	56.0-68.0	65.5-78.0	0.4	3.0	118	96	110	120
TN-052308	8-80	M80x2.0	25	-	68.0-74.0	78.0-82.0	2.5	3.0	175	96	110	150
TN-052309	9-90	M90x2.0	25	-	74.0-82.0	82.0-91.0	3.0	3.5	184	112	125	160
TN-052310	10-100	M100x2.0	25	-	81.0-91.0	91.0-100.0	3.0	3.5	189	125	140	200
TN-052311	11-115	M115x2.0	20	-	86.0-98.0	100.0-114.0	3.0	4.0	189	135	152	230
TN-052312	12-120	M120x2.0	20	-	95.0-103.0	103.0-118.0	3.0	4.0	189	140	158	230
TN-052313	13-130	M130x2.0	20	-	100.0-115.0	113.0-124.0	3.0	4.0	189	146	164	230

All dimensions except NPT are in mm. Metric glands may be utilised with a locknut for increased safety (Ex e) only.

\*For use with CCG Posi Fit Boxes.

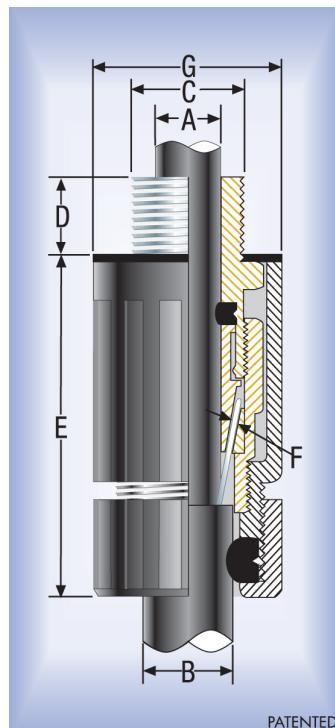
## CCG EX CORROSION GUARD EX DE IIC GLAND, FOR MULTI ARMOURED CABLE

### FEATURES

- For use in highly corrosive and wet areas
- Cable gland is precision manufactured from high quality Brass (Nickel plated)
- Factory fitted captive elastomeric seals for built in safety
- The screw-on Corrosion Guard™ is manufactured from non-corrosive material to protect the armour and metal parts of the gland
- Corrosion Guard™ screws onto the gland body and seals over the outer sheath of the cable giving an IP68 and deluge proof seal
- Complete with polypropylene sealing gasket and an end cap/safety gauge for correct gland selection

### TECHNICAL DATA

GLAND MATERIAL	Brass (Nickel Plated)
CORROSION GUARD MATERIAL	Glass Reinforced Polyester Compound/PBT
SEAL MATERIAL	Thermoplastic Elastomer
CABLE TYPE	Steel Wire, Braid, Tape Armour
ARMOUR CLAMPING	Multi Armour Cone and Cone Ring
SEALING AREA	Inner and outer sheath and total enclosure of gland
INGRESS PROTECTION	IP66/68
OPERATING TEMPERATURE	-30°C to 80°C
HAZARDOUS AREA CLASSIFICATION	
SANS IEC, AS/NZS IEC, CNEC:	Zone 1, 2, 21 and 22 Ex de IIC DIP A21
ATEX:	Category 2, Category 3, Ex de II 2 GD
STANDARDS	
Aus/NZ/IEC	ANZEx 03.4083X AS/NZS 60079-0, AS/NZS 60079-1, AS/NZS 60079-7, AS/NZS 61241.1, AS1939



CAT NO.	GLAND SIZE REFERENCE	ENTRY THREAD		CABLE DETAILS DIA MIN-MAX		ARMOUR DIAMETER		LENGTH MAX (E)	MAX DIA. (G)	HEX DETAILS FLATS	INSTALL TORQUE VALUE Nm
		METRIC [C]	MIN [D]	[A]	[B]	MIN [F]	MAX [F]				
TN-054700-16	00-16SS	M16x1.5	15	3.0-8.0	8.0-13.0	0.2	1.25	62	33	24	35
TN-054700	*00-20SS	M20x1.5	15	3.0-8.0	8.0-13.0	0.2	1.25	62	33	24	35
TN-0547-0	*0-20S	M20x1.5	15	7.0-12.0	11.5-16.0	0.2	1.25	62	33	24	35
TN-054701	*1-20	M20x1.5	15	9.0-14.5	14.5-21.0	0.2	1.25	75	36	27	35
TN-054702	*2-25	M25x1.5	15	14.0-20.0	20.5-27.0	0.2	1.6	90	46	35	50
TN-054703	*3-32	M32x1.5	15	19.0-26.5	26.5-33.5	0.2	2.0	94	53	42	70
TN-054704	4-40	M40x1.5	20	26.0-32.5	33.0-43.0	0.4	2.5	105	68	52	90
TN-054705	5-50	M50x1.5	20	34.0-44.5	42.5-52.5	0.4	2.5	125	84	65	100
TN-054706	6-63	M63x1.5	20	44.0-57.0	52.0-65.5	0.4	2.5	152	110	82	120
TN-054707	7-75	M75x1.5	20	56.0-68.0	65.0-78.0	0.4	3.0	172	124	96	120
TN-054708	8-80	M80x2.0	25	68.0-74.0	78.0-82.0	2.5	3.0	180	124	96	150
TN-054709	9-90	M90x2.0	25	74.0-82.0	82.0-91.0	3.0	3.5	190	140	112	160
TN-054710	10-100	M100x2.0	25	81.0-91.0	91.0-100.0	3.0	3.5	200	155	125	200

All dimensions are in mm. \*For use with CCG Posi Fit Boxes.

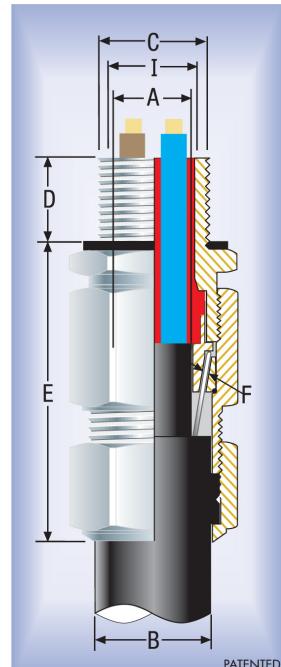
## CCG STOPEX™ EX DE IIC CABLE GLAND FOR ARMOURED CABLE

### FEATURES

- Provides a barrier seal between the individual cores of the cable
- Inspectable compound chamber
- Prevents explosive gasses propagating through a cable
- Prevents gas and moisture migrating through a cable
- Precision manufactured from high quality Brass (Nickel plated) or Stainless Steel

### TECHNICAL DATA

GLAND MATERIAL	Brass (Nickel Plated), Stainless Steel or Bronze
SEAL MATERIAL	CCG FR308 or ST574 Compound, Thermoplastic Elastomer
CABLE TYPE	Armoured Cable
ARMOUR CLAMPING	Captive Cone and Cone Ring
SEALING AREA	Inner compound barrier and outer sheath
INGRESS PROTECTION	IP66/68 (2m cont.)
OPERATING TEMPERATURE	-20°C to 80°C
STANDARDS	Aus/NZ/IEC Pending
HAZARDOUS AREA CLASSIFICATION	Zone 1, 2, 21 and 22 Ex e, Ex d IIC ExnR, Ex tD, A21



CAT NO.	GLAND SIZE REF	ENTRY THREAD		CABLE DETAILS MIN-MAX			DIA. MAX (I)	DIA. OVER CORE MAX	NO. OF CORES	ARMOUR		LENGTH MAX (E)	A/F
		METRIC (C)	MIN (D)	(A)	(B)					MIN (F)	MAX (F)		
TN-051500	00-20SS	M20x1.5	15.0	3.0-8.0	8.0-13.5	12.2	10.9	6.0	0.90	1.25	54.0	25.0	
TN-0515-0	0-20S	M20x1.5	15.0	7.0-12.0	11.5-16.0	12.2	10.9	6.0	0.90	1.25	56.0	25.0	
TN-051501	1-20	M20x1.5	15.0	9.0-15.5	14.5-21.0	12.3	11.0	10.0	0.90	1.25	60.0	27.0	
TN-051502	2-25	M25x1.5	15.0	14.0-20.5	20.5-27.0	17.3	15.5	20.0	1.25	1.60	66.0	35.0	
TN-051503	3-32	M32x1.5	15.0	19.0-26.5	26.5-33.5	24.3	21.7	40.0	1.60	2.00	75.0	42.0	
TN-051504	4-40	M40x1.5	20.0	26.0-34.5	33.0-43.0	30.6	27.4	60.0	1.60	2.00	83.0	52.0	
TN-051505	5-50	M50x1.5	20.0	34.0-44.5	42.5-52.5	40.6	36.3	80.0	2.00	2.50	101.0	65.0	
TN-051506	6-63	M63x1.5	20.0	44.0-57.0	52.5-65.5	53.6	47.9	100.0	2.00	2.50	111.0	80.0	

All dimensions are in mm.

## CCG - EXPLOSION PROOF JUNCTION BOXES

### CCG POSI FIT IP68 JUNCTION BOXES FOR HAZARDOUS INSTALLATIONS

#### FEATURES

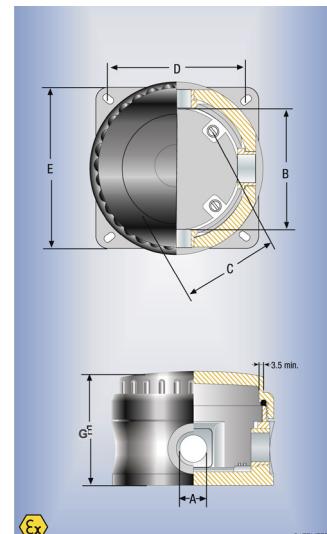
- High temperature resistance and anti-static properties
- DIN Rail mounting studs are provided for use with terminal blocks
- Raised domed lid facilitates connections to be made outside of the box
- Only approved CCG cable glands and non-sparking terminals must be used
- Dust and water tight to IP68 when fitted with CCG sealed cable glands
- Boxes can be buried for extended periods
- Boxes with see through polycarbonate "adapt-a-lids" available on request
- 4-way H-Boxes with parallel entries available on request
- Impact, corrosion and UV resistant glass reinforced polyester compound
- 4-blanking plugs included



#### CCG POSI FIT 4WAY/TX BOX - FOR HAZARDOUS AREAS

CAT NO.	ENTRY THREAD [A]	CLEAR INSIDE [B]	[C]	FIXING HOLES [D]	SIZE [E]	HEIGHT [G]
TN-1003-0	*M16	71	65	79	100	78
TN-1003-0	M20	71	65	79	100	78
TN-100301	*M16	88	80	92	118	91
TN-100301	M20	88	80	92	118	91
TN-100302	*M16	108	98	107	140	114
TN-100302	*M20	108	98	107	140	114
TN-100302	M25	108	98	107	140	114
TN-100303	*M16	168	150	167	203	142
TN-100303	*M20	168	150	167	203	142
TN-100303	*M25	168	150	167	203	142
TN-100303	M32	168	150	167	203	142

All dimensions are in mm. \*Australian Certification Pending

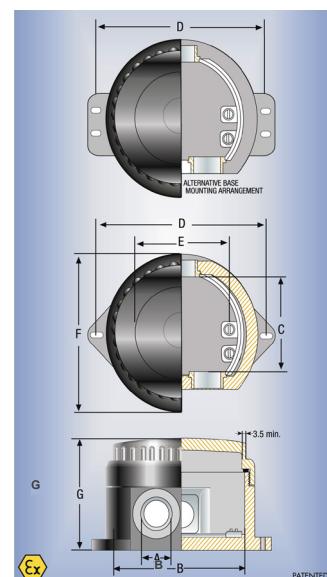


PATENTED

#### CCG POSI FIT 'Y' BOX - FOR HAZARDOUS AREAS

CAT NO.	ENTRY THREAD [A]	INSIDE DIA [B]	CLEAR INSIDE [C]	FIXING HOLES [D]	[E]	DIA [F]	HEIGHT [G]
TN-1009-0	*M16	84	60	108	64	99	81
TN-1009-0	M20	84	60	108	64	99	81
TN-100901	*M16	101	75	132	80	116	88
TN-100901	M20	101	75	132	80	116	88
TN-100902	*M16	123	94	148	98	138	88
TN-100902	*M20	123	94	148	98	138	88
TN-100902	M25	123	94	148	98	138	88
TN-100903	*M16	182	154	237	152	200	150
TN-100903	*M20	182	154	237	152	200	150
TN-100903	*M25	182	154	237	152	200	150
TN-100903	M32	182	154	237	152	200	150

All dimensions are in mm. \*Australian Certification Pending

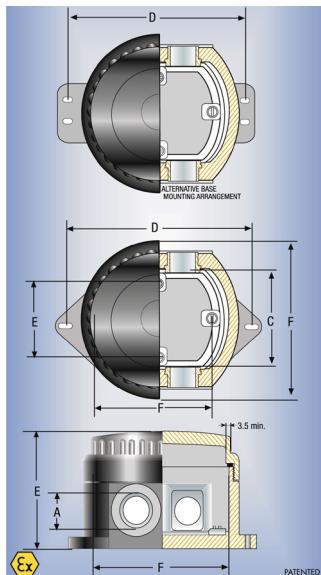


PATENTED

## CCG POSI FIT H BOX – FOR HAZARDOUS AREAS

CAT NO.	ENTRY THREAD (A)	INSIDE DIA (B)	CLEAR INSIDE (C)	FIXING HOLES (D)	DIA (E)	OVERALL DIA (F)	HEIGHT (G)
TN-100301-H	M16	103	69	130	58	88	94
TN-100301-H	M20	103	69	130	58	88	94
TN-100302-H	M16	124	78	148	-	106	100
TN-100302-H	M20	124	78	148	-	106	100
TN-100302-H	M25	124	78	148	-	106	100

All dimensions are in mm.



## CCG EXPLOSION PROOF BOX TOOLS AND ACCESSORIES

- Box Spanner – four sizes available
- Clear Lid – three sizes available
- Pole Mounting Bracket – four sizes available
- CCG Non Metallic Polybutylene Terephthalate (PBT) Ex e IIC

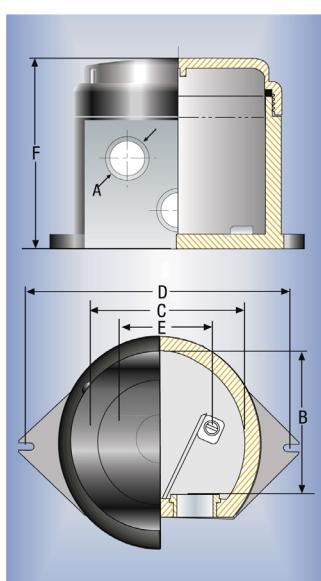
## CCG 3-WAY BOTTOM ENTRY BOX FOR HAZARDOUS AREAS

### FEATURES

- 3-Way bottom entry connect box for hazardous area lighting applications
- Screw on lid provides ease of installation locked with a special key prevents unauthorised tampering and ease of installation
- No exposed metal parts
- Dust and water proof to IP68 when used with CCG sealed cable glands
- No drilling or tapping of cable entries required
- Mounting studs provided for DIN rail if using CCG terminal blocks

### TECHNICAL DATA

BOX MATERIAL	Impact, corrosion and UV resistant glass reinforced polyester compound
SEAL MATERIAL	Nitrile Rubber
INSERTS	Brass, internal earthing and rail mountings
INGRESS PROTECTION	IP66/68
OPERATING TEMPERATURE	-30°C to 80°C
STANDARDS	ANZEx 08.2001 = AS 2380.0, AS 2380.6, AS 2380.9, AS 2236



CAT NO.	BOX SIZE REFERENCE	ENTRY THREAD (A)	CLEAR INSIDE HEIGHT (B)	CLEAR INSIDE DISTANCE (C)	DISTANCE OF FIXING HOLES (D)	DISTANCE (E)	DISTANCE (F)
TN-100201-B	20MM	M20x1.5	86	90	125	60	65

All dimensions are in mm. Certified for use in hazardous areas.

# REDUCERS/ADAPTORS SELECTION CHART



FEMALE	M16	M20	M25	M32	M40	M50	M63	M75	PG 11/13.5	PG16	PG21	PG29	PG36	PG42	PG48	1/2" NPT/ BSP	3/4" NPT/ BSP	1 1/4" NPT/ BSP	1 1/2" NPT/ BSP	2 1/2" NPT/ BSP	2" NPT/ BSP	3" NPT/ BSP	
MALE	M16	A															A						
M16	M20	R	A																				
M20	M25	R	R	A													R	A	A				
M25	M32	R	R	R	A												R	A	A				
M32	M40	R	R	R	R	A											R	A	A				
M40	M50	R	R	R	R	R	A										R	R	A	A			
M50	M63	R	R	R	R	R	R	A									R	R	R	A	A		
M63	M75	R	R	R	R	R	R	R									R	R	R	R	R	A	A
M75	PG 11/13.5	R	A	A													A						
PG 11/13.5	PG16	R	A	A													A						
PG16	PG21	R	R	A	A												R	A	A				
PG21	PG29	R	R	R	A	A											R	R	A	A	A		
PG29	PG36	R	R	R	R	A	A										A	A	R	R	A	A	
PG36	PG42	R	R	R	R	R	A	A									R	R	A	R	R	R	A
PG42	PG48	R	R	R	R	R	R	A									R	R	A	R	R	R	A
PG48	1/2" NPT/ BSP	R	A	A													A						
1/2" NPT/ BSP	3/4" NPT/ BSP	R	R	A	A												R		A				
3/4" NPT/ BSP	1" NPT/ BSP	R	R	R	A	A											R	R	R	R	R	R	A
1" NPT/ BSP	1 1/4" NPT/ BSP	R	R	R	R	A	A										R	R	R	R	R	R	A
1 1/4" NPT/ BSP	1 1/2" NPT/ BSP	R	R	R	R	R	A	A									R	R	A	A	R	R	A
1 1/2" NPT/ BSP	2" NPT/ BSP	R	R	R	R	R	A	A									R	R	A	R	R	R	A
2" NPT/ BSP	2 1/2" NPT/ BSP	R	R	R	R	R	R	A									R	R	R	R	R	R	A
2 1/2" NPT/ BSP	3" NPT/ BSP	R	R	R	R	R	R	R									R	R	R	R	R	R	
3" NPT/ BSP																							

## CODE STRUCTURING FOR REDUCERS AND ADAPTORS

Character denotes the type, R = Reducer A = Adaptor

Character denotes the male thread - Metric, NPT, BSP, or PG

Character denotes the size of the male thread

Character denotes the female thread - Metric, NPT, BSP or PG

Character denotes the size of the female thread

TYPE	THREAD	SIZE	CLASSIFICATION
TNR - REDUCER	M - METRIC	INDICATED BY 3 NUMERIC CHARACTERS	S - STANDARD
TNA - ADAPTOR	N - NPT		E - EX
	B - BSP		
P - PG			

# CCG ADAPTORS/REDUCERS/PLUGS

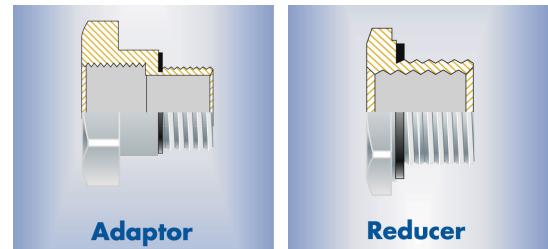
## CCG ADAPTORS/REDUCERS/PLUGS FOR INDUSTRIAL & EX DE GLANDS

### FEATURES

- Precision manufactured from high quality Brass (Nickel plated) or Stainless Steel on request
- Converts mismatching threads to the required thread

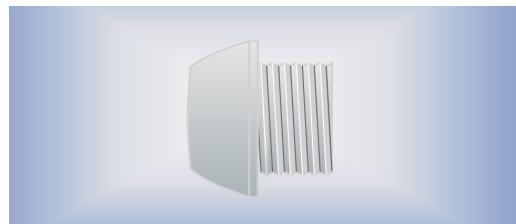
### TECHNICAL DATA

MATERIAL	Brass (Nickel Plated) or Stainless Steel
INGRESS PROTECTION	IP66/68
STANDARDS (CENELEC/ATEX)	Category 2, Category 3, Ex de I/II 2 GD, Ex d I M2
HAZARDOUS AREA CLASSIFICATION	Zone 1, 2, 21 and 22 Ex de I/IIC, DIP



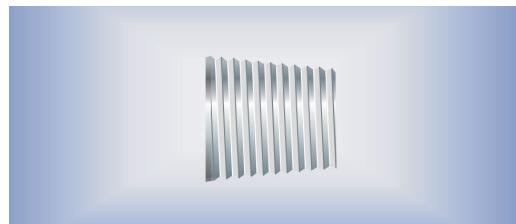
### CCG BRASS (NICKEL PLATED) EX E I/IIC METRIC PLUG

CAT NO.	SIZE REFERENCE	SIZE REFERENCE
TN-PM016E	00-16	M16
TN-PM020E	0/1	M20
TN-PM025E	2	M25
TN-PM032E	3	M32
TN-PM040E	4	M40
TN-PM050E	5	M50
TN-PM063E	6	M63
TN-PM075E	7	M75



### CCG BRASS (NICKEL PLATED) EX E I/IIC NPT PLUG

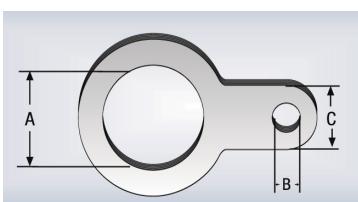
CAT NO.	SIZE REFERENCE
TN-PSN012E	1/2" NPT
TN-PSN034E	3/4" NPT
TN-PSN001E	1" NPT
TN-PSN114E	1 1/4" NPT
TN-PSN112E	1 1/2" NPT
TN-PSN002E	2" NPT
TN-PSN212E	2 1/2" NPT



## CCG ACCESSORIES

### CCG BRASS (NICKEL PLATED) SLIP ON EARTH TAG

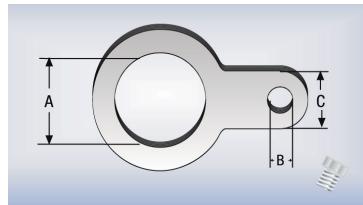
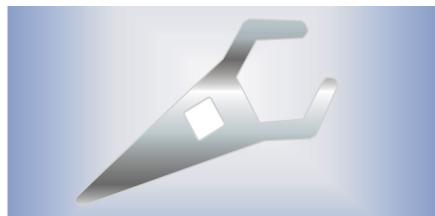
CAT NO.	SIZE REF	DIA (A) MM	DIA (B) MM	DIMENSION (C) MM	SQUARE SECTION MM <sup>2</sup>	SHORT CIRCUIT FAULT CURRENT RATINGS BS1621 PART5: 1993
TN-6220-1	0/1	20	7	12 x 1.5	18	20mm 3.06KA/1SEC
TN-622902	2	25	7	12 x 1.5	18	25mm 4.00KA/1SEC
TN-622903	3	32	12	22 x 1.5	33	32mm 5.40KA/1SEC
TN-622904	4	40	12	32 x 1.5	48	40mm 7.20KA/1SEC
TN-622905	5	50	12	40 x 1.5	60	50mm 10.40KA/1SEC
TN-622906	6	63	12	40 x 1.5	60	63mm 10.40KA/1SEC
TN-622907	7	75	12	40 x 1.5	60	75mm 10.40KA/1SEC
TN-622908	8	82	12	40 x 1.5	60	-
TN-622909	9	90	12	40 x 1.5	60	-



Stainless Steel available on request

**CCG BRASS (NICKEL PLATED) SCREW ON EARTH TAG**

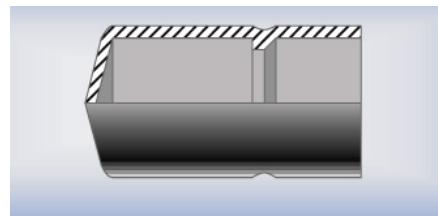
CAT NO.	SIZE REF	DIA (A) MM	DIA (B) MM	DIMENSION (C) MM	SQUARE SECTION MM <sup>2</sup>	SHORT CIRCUIT FAULT CURRENT RATINGS BS1621 PART5: 1993	
TN-6030-1	0/1	M20	M6	10 x 3	30	20mm	26KA/1SEC
TN-603202	2	M25	M6	10 X 4	40	25mm	26KA/1SEC
TN-603203	3	M32	M6	12 X 6	70	32mm	26KA/1SEC
TN-603204	4	M40	M8	20 X 6	120	40mm	26KA/1SEC
TN-603205	5	M50	M10	24 X 8	185	50mm	43KA/1SEC
TN-603206	6	M63	M12	40 X 8	300	63mm	43KA/1SEC
TN-603207	7	M75	M12	40 X 8	300	75mm	43KA/1SEC
TN-603208	8	M82	M12	40 X 8	300	-	-
TN-603209	9	M90	M12	40 X 8	300	-	-


**HEX SPANNER**


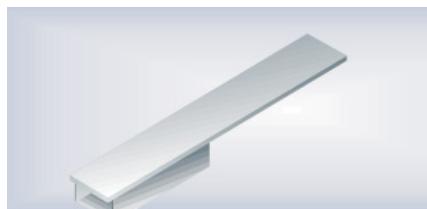
CAT NO.	SIZE REFERENCE
TN-401600	HANDLES
TN-401601	1
TN-401602	2
TN-401603	3
TN-401604	4
TN-401605	5
TN-401606	6
TN-401607	7
TN-401608	8
TN-401609	9
TN-401610	10
TN-401611	11

**C-SPANNER**


CAT NO.	SIZE REFERENCE
TN-401610	10
TN-401611	11
TN-401612	12

**INSULATION SLEEVE**


CAT NO.	SIZE REFERENCE
TN-550502	2
TN-550503	3
TN-550504	4

**WIRE BENDING TOOL**


CAT NO.
401701

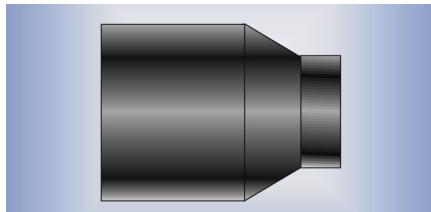
**TERMINAL CONNECTOR**


CAT NO.	SIZE REF	HOLE DIA.	ALLEN KEY NO.
580302	2	10mm	4mm

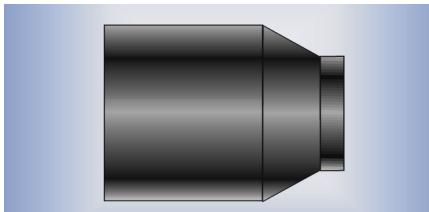
**SEALING GASKET - METRIC**

CAT NO.	SIZE REFERENCE MM
TN-805520	20
TN-805525	25
TN-805532	32
TN-805540	40
TN-805550	50
TN-805563	63
TN-805575	75
TN-805580	80
TN-805590	90

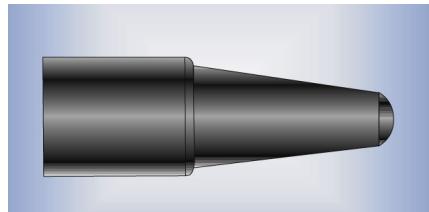


**NEOPRENE SHROUD -  
SHORT**


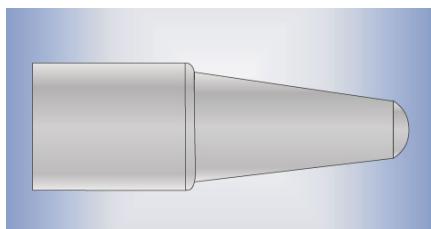
CAT NO.	SIZE REF.	SIZE REF.
TN-1521-0	0	M20
TN-152101	1	M20
TN-152102	2	M25
TN-152103	3	M32
TN-152104	4	M40
TN-152405	5	M50
TN-152106	6	M63
TN-152107	7	M75

**PVC SHROUD -  
SHORT**


CAT NO.	SIZE REF.	SIZE REF.
TN-1522-0	0	M20
TN-152201	1	M20
TN-152202	2	M25
TN-152203	3	M32
TN-152204	4	M40
TN-152205	5	M50
TN-152206	6	M63
TN-152207	7	M75
TN-152208	8	M80
TN-152209	9	M90
TN-152210	10	M100

**PVC SHROUD (BLACK)-  
LONG**


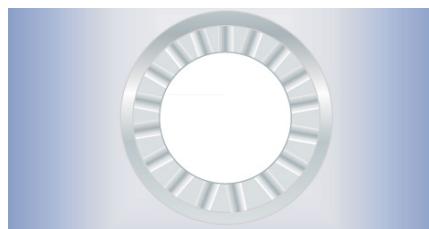
CAT NO.	SIZE REF.	SIZE REF.
TN-1525-0	0	M20
TN-152501	1	M20
TN-152502	2	M25
TN-152503	3	M32
TN-152504	4	M40
TN-152505	5	M50
TN-152506	6	M63
TN-152507	7	M75
TN-152508	8	M80
TN-152509	9	M90
TN-152510	10	M100
TN-152511	11	M115

**L.S.O.H SHROUD (GREY) -  
LONG**


CAT NO.	SIZE REF.	SIZE REF.
TN-1526-0	0	M20
TN-152601	1	M20
TN-152602	2	M25
TN-152603	3	M32
TN-152604	4	M40
TN-152605	5	M50
TN-152606	6	M63
TN-152607	7	M75
TN-152608	8	M80
TN-152609	9	M90
TN-152610	10	M100
TN-152611	11	M115

**BRASS (NICKEL PLATED)  
LOCKNUT**


CAT NO.	SIZE REF.	THREAD SIZE	A/F MM
TN-300900	0	M20x1.5	25
TN-300901	1	M20x1.5	25
TN-300902	2	M25x1.5	32
TN-300903	3	M32x1.5	42
TN-300904	4	M40x1.5	52
TN-300905	5	M50x1.5	65
TN-300906	6	M63x1.5	80
TN-300907	7	M75x1.5	90
TN-300908	8	M80x2.0	96
TN-300909	9	M90x2.0	110

**SERRATED WASHER**


CAT NO.	SIZE REF. MM
TN-805620	20
TN-805625	25
TN-805632	32
TN-805640	40
TN-805650	50
TN-805663	63
TN-805675	75
TN-805680	80
TN-805690	90

Stainless Steel available on request

# DUCT SEALING SYSTEMS

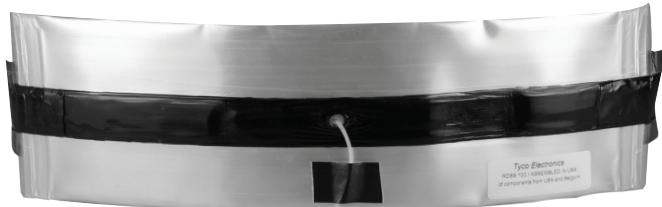
## RAYFLATE - DUCT SEALING SYSTEM

### APPLICATIONS

- For power cables
- For two or more cables, sealing clips are required
- Inflation tool is TDUX-IT-16 for purchase or hire
- Canisters of compressed air or CO<sub>2</sub> are compatible
- Each Raylate seal covers a large range of cable and duct diameters
- Raylate seals can be installed when water is still flowing out of the duct – thus saving valuable installation time
- Use not only for new cable installations but also for existing applications
- Raylate seals can be quickly and easily removed from a duct or pipe by deflation



RDSS Install Video



CAT NO. DUCT SIZE mm	RDSS-45 CABLE DIA. mm	RDSS-60 CABLE DIA. mm	RDSS-75 CABLE DIA. mm	RDSS-100 CABLE DIA. mm	RDSS-125 CABLE DIA. mm	RDSS150 CABLE DIA. mm
32.5	0 - 14	-	-	-	-	-
35	0 - 18	-	-	-	-	-
40	0 - 27	-	-	-	-	-
45	0 - 32	0 - 18	-	-	-	-
50	-	0 - 30	-	-	-	-
55	-	0 - 38	0 - 28	-	-	-
60	-	0 - 45	0 - 30	-	-	-
65	-	-	0 - 40	-	-	-
70	-	-	0 - 46	-	-	-
75	-	-	0 - 56	0 - 45	-	-
80	-	-	-	0 - 52	-	-
85	-	-	-	0 - 60	-	-
90	-	-	-	0 - 66	-	-
95	-	-	-	0 - 74	-	-
100	-	-	-	0 - 80	0 - 65	-
105	-	-	-	0 - 85	0 - 75	-
110	-	-	-	0 - 90	0 - 83	-
115	-	-	-	-	0 - 91	-
120	-	-	-	-	0 - 95	-
125	-	-	-	-	0 - 103	60 - 100
130	-	-	-	-	-	60 - 107
135	-	-	-	-	-	60 - 112
140	-	-	-	-	-	60 - 118
145	-	-	-	-	-	60 - 123
150	-	-	-	-	-	60 - 129

CAT NO.	DESCRIPTION
TDUX-IT-16	RDSS INSTALLATION TOOL
E4540-1250	LUBRICANT FOR INSTALLATION
CO2-CYLINDER	CO2-CYLINDER

## DUCT SEALING PLUGS

The TE Blank Duct Plug range effectively seal empty conduits. These plugs prevent the flow of water and the costly sedimentation of duct banks and conduit systems while confining problems of dangerous vapors to their source. Manufactured from high-impact plastic components, combined with durable elastic gaskets, they are corrosion proof and effective for long-term or temporary sealing. Equipped with a rope tie mechanism that provides the benefit of securing a pull rope to the back compression plate.

### FEATURES

- All plastic construction
- Corrosion proof
- Water and gas tight
- Easy Installation and removal
- Fully removable and reusable



CAT NO.	PLUG DIAMETER inch	DUCT ID inch	DUCT ID mm
RBDP-BLA-10D104U	1.00	0.96 - 1.16	24.4 - 29.5
RBDP-BLA-12D148U	1.25	1.14 - 1.48	29.0 - 37.6
RBDP-BLA-15D183U	1.50	1.49 - 1.83	37.8 - 46.5
RBDP-BLA-20D236U	2.00	1.83 - 2.36	46.5 - 59.9
RBDP-BLA-30D346U	3.00	2.99 - 3.46	75.9 - 87.9
RBDP-BLA-40D402U	4.00	3.94 - 4.17	100 - 105.9
RBDP-BLA-60D637U	6.00	5.82 - 6.37	147.8 - 161.8

## FILOSEAL+ - DUCT SEALING SYSTEM

The FiloSeal+ Duct sealing system is a universal product for sealing cables and pipes in ducts and bore holes. FiloSeal+ seals against gas and water but it can also be adapted to seal against fire. Easy to apply regardless of the type of cable scenario in the duct as it uses a uniquely shaped foam piece which fits neatly around the cables providing a backing for the MD+ to be applied on. FiloSeal+ allows for easy reentry of the seal to add or remove cables.

### FEATURES

- Flexible, single component, adhesive and sealing compound in 310ml cartridge
- Offers a gas and water tight seal
- Fire resistance in accordance with BS EN 1366-3:2009 if used in conjunction with other FiloForm systems\*
- Resistant to water, alkaline, chemical agents, oil and greases
- Complies with ATEX regulations
- Non toxic, solvent free, neutral and almost odourless
- Non corrosive
- Shock absorbing
- Re-enterable



CAT NO.	FIRE RESISTANT	COLOUR	CURING TIME	TENSILE STRENGTH	OPERATING TEMPERATURE	DUCT RANGE mm
FILOSEAL+	>90MINS*	RED-BROWN	1.5mm/24hrs	0.8N/mm <sup>2</sup>	+5°C to +40°C	95-200

# CIRCUIT PROTECTION

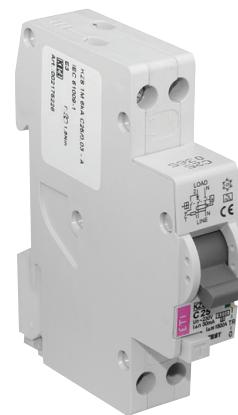
DISTRIBUTION BOARD CIRCUIT PROTECTION	PAGE
RCBO - Single Module Width	98
Surge Protection	98
Fuse Disconnect	98
Lock Off Kit	98
FUSE LINKS	PAGE
Staggered Tag	99
Offset Tag	99
Central Tag	101
J Type	102
Cylindrical Type	103
NH Din Type	104
Cooper Bussmann Oil Fuse Links 12kV	106
AB Chance Type K & Type T DDO Fuse Links	107
SERVICE FUSE CARRIERS	PAGE
K07 End Entry Fuse Carrier	108
TNNHP100 Fuse Carrier	108
IPC - Insulation Piercing Fuse Carriers	108
K223	108
K491	109
K291 & K292	109
Brackets	109
Fuse Pulling Tools	110
Waterproof Fuse Carriers	110
65U	110
K221	110
K199	110
LV Stand Off Insulators	110

## RCBO – SINGLE MODULE WIDTH

### KEY FEATURES

- Indication on contacts
- New din rail mount method
- Lockable
- 18mm width module

CAT NO.		CURRENT RATING AMP
10mA	30mA	
TN2175421	TN2175221	6
TN2175422	TN2175222	10
TN2175424	TN2175224	16
TN2175425	TN2175225	20
TN2175426	TN2175226	25
-	TN2175227	32



## SURGE PROTECTION

### KEY FEATURES

- Indication window
- Remote signalling up to 35mm<sup>2</sup>
- High discharge current
- Connection up to 35mm<sup>2</sup>
- High degree of protection
- Two module system

CAT NO.	DESCRIPTION
TN2441510	ETI SURGE ARRESTOR 40KA 1P
TN2441710	ETI SURGE ARRESTOR 40KA 1P, WITH REMOTE SIGNAL
TN2441522	ETI SURGE ARRESTOR 40KA 3P
TN2441523	ETI SURGE ARRESTOR 40KA 3P, WITH REMOTE SIGNAL
TN2441511	ETI REPLACEMENT MODULE
TN2441701	ETI SURGE ARRESTOR 24V DC, WITH REMOTE SIGNAL

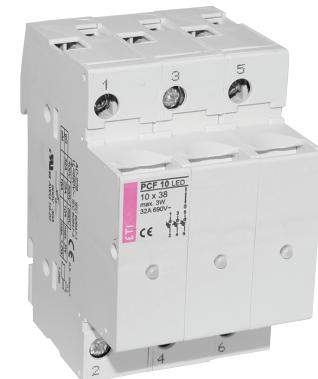


## FUSE DISCONNECT

### KEY FEATURES

- Double connection clamp
- Lockable
- LED indicator
- Extraction of entire fuse
- Chamber for spare fuse

CAT NO.	DESCRIPTION
TN2550011	ETI FUSE DISCONNECT 1P, WITH LED INDICATION
TN2550014	ETI FUSE DISCONNECT 3P, WITH LED INDICATION



## LOCK OFF KIT

This convenient lock off kit works on most distribution boards and provides a safe way of ensuring that once the supply is isolated it stays isolated.

### KIT INCLUDES

- MCB Locks (5 different sizes)
- Padlock
- Steel safety hasp
- Black marker pen
- Carry case
- Warning Tags (Pack of 10)

CAT NO.	DESCRIPTION
MARLOKKIT1	LOCK OFF COMPLETE KIT

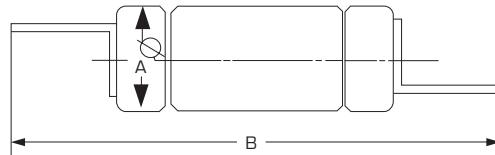


For more information and the complete range visit [www.etigroup.eu](http://www.etigroup.eu)



## HRC FUSE LINK STAGGERED TAGS 60MM - NS TYPE (G06)

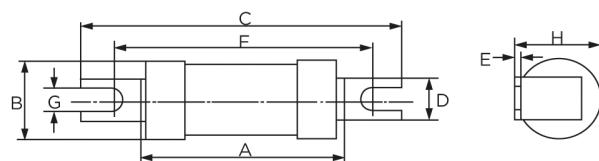
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2/IEC 60269-2-1
- Class: gG/Q1



CAT NO.	TYPE	AMPS	PACK SIZE	DIMENSIONS mm	
				A	B
TNNS2		2	20	13.9	50.8
TNNS4		4	20	13.9	50.8
TNNS6		6	20	13.9	50.8
TNNS10		10	20	13.9	50.8
TNNS10M16	M/R	10	20	13.9	50.8
TNNS16		16	20	13.9	50.8
TNNS16M20	M/R	16	20	13.9	50.8
TNNS20		20	20	13.9	50.8
TNNS20M25	M/R	20	20	13.9	50.8
TNNS25		25	20	13.9	50.8
TNNS25M32	M/R	25	20	13.9	50.8
TNNS32		32	20	13.9	50.8
TNNS32M40	M/R	32	20	13.9	50.8

## HRC FUSE LINK OFFSET TAGS 73MM FIXING CENTRE - TIA TYPE (H07)

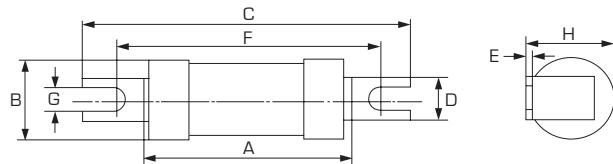
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2/IEC 60269-2-1
- Class: gG/Q1



CAT NO.	TYPE	AMPS	PACK SIZE	DIMENSIONS mm							
				A	B	C	D	E	F	G	H
TNTIA2		2	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA4		4	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA6		6	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA10		10	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA16		16	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA20		20	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA25		25	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA32		32	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA32M40L	M/R	32	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA32M50	M/R	32	10	52	22	82	8.5	1.2	73	5.5	24
TNTIA32M63	M/R	32	10	52	22	82	8.5	1.2	73	5.5	24

## HRC FUSE LINK OFFSET TAGS 73MM FIXING CENTRE – TIS TYPE (K07)

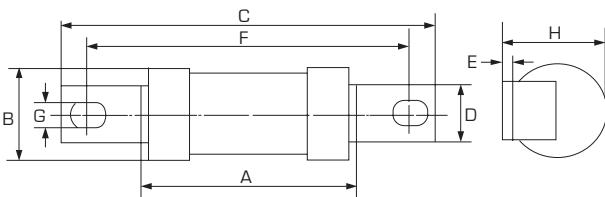
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2-1  
IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm							
			A	B	C	D	E	F	G	H
TNTIS40	40	10	53	22	85.5	12	1.6	73	5.5	24
TNTIS50	50	10	53	22	85.5	12	1.6	73	5.5	24
TNTIS63	63	10	53	22	85.5	12	1.6	73	5.5	24
TNTIS63M80	63	10	53	22	85.5	12	1.6	73	5.5	24
TNTIS63M100	63	10	53	22	85.5	12	1.6	73	5.5	24
TNTIS80	80	10	53	22	85.5	12	1.6	73	5.5	24
TNTIS100	100	10	53	22	85.5	12	1.6	73	5.5	24

## HRC FUSE LINK OFFSET TAGS 94MM FIXING CENTRE – TCP TYPE (L14)

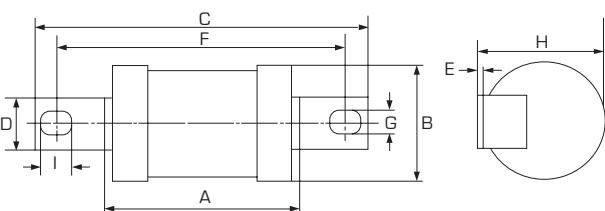
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2-1  
IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm							
			A	B	C	D	E	F	G	H
TNTCP32	32	10	63	28	109	18	2.4	94	8.7	30
TNTCP40	40	10	63	28	109	18	2.4	94	8.7	30
TNTCP50	50	10	63	28	109	18	2.4	94	8.7	30
TNTCP63	63	10	63	28	109	18	2.4	94	8.7	30
TNTCP80	80	10	63	28	109	18	2.4	94	8.7	30
TNTCP100	100	10	63	28	109	18	2.4	94	8.7	30
TNTCP100M125	100	10	63	28	109	18	2.4	94	8.7	30
TNTCP100M160	100	10	63	28	109	18	2.4	94	8.7	30

## HRC FUSE LINK OFFSET TAGS 94MM FIXING CENTRE – TFP TYPE (M14)

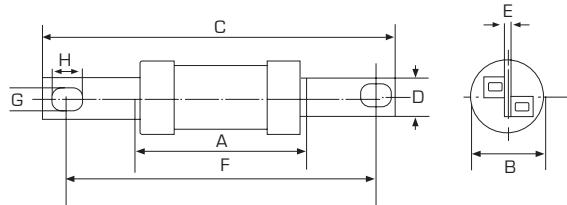
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2-1  
IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm								
			A	B	C	D	E	F	G	H	I
TNTFP125	125	10	63	40	109	18	2.4	94	8.7	41	10
TNTFP160	160	10	63	40	109	18	2.4	94	8.7	41	10
TNTFP200	200	10	63	40	109	18	2.4	94	8.7	41	10

## HRC FUSE LINK CENTRAL TAGS 111MM FIXING CENTRE – TBC TYPE

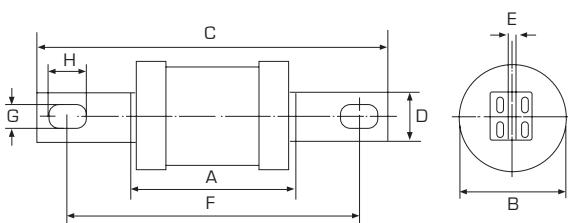
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2/ IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm							
			A	B	C	D	E	F	G	H
TNTBC32	32	10	53	22	128	14	1.5	111	9	12
TNTBC40	40	10	53	22	128	14	1.5	111	9	12
TNTBC50	50	10	53	22	128	14	1.5	111	9	12
TNTBP63	63	10	53	22	128	14	1.5	111	9	12

## HRC FUSE LINK CENTRAL TAGS 111MM FIXING CENTRE – TC TYPE (L09)

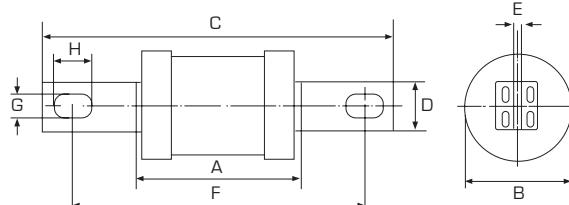
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2/ IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm							
			A	B	C	D	E	F	G	H
TNTC80	80	5	62	28	134	18	3.2	111	8.7	14
TNTC100	100	5	62	28	134	18	3.2	111	8.7	14
TNTC100M160	100	5	62	28	134	18	3.2	111	8.7	14

## HRC FUSE LINK CENTRAL TAGS 111MM FIXING CENTRE – TF TYPE (M09)

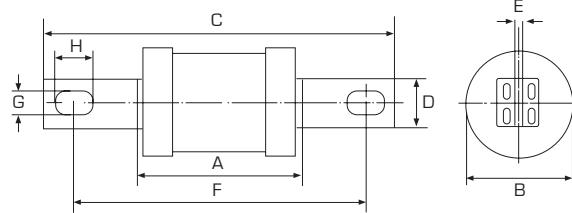
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2/ IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm							
			A	B	C	D	E	F	G	H
TNTF125	125	5	62	40	134	18	3.2	111	8.7	14
TNTF160	160	5	62	40	134	18	3.2	111	8.7	14
TNTF200	200	5	62	40	134	18	3.2	111	8.7	14

## HRC FUSE LINK CENTRAL TAGS 111MM FIXING CENTRE – TKF TYPE (N09)

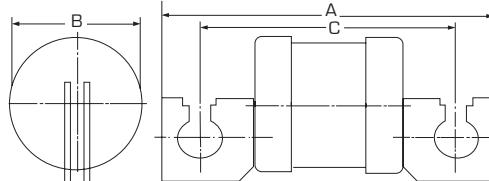
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2-/ IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm							
			A	B	C	D	E	F	G	H
TNTKF250	250	1	65	56	134	25	6.5	111	9	14
TNTKF315	315	1	65	56	134	25	6.5	111	9	14

## HRC FUSE LINK J TYPE FEEDER PILLAR 76MM FIXING CENTRE – JHU TYPE (MJ29)

- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2-/ IEC 60269-2-1
- Class: gG/Q1

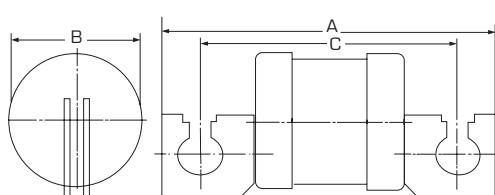


CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm		
			A	B	C
TNJHU63	63	3	100	40	76
TNJHU100	100	3	100	40	76
TNJHU160	160	3	100	40	76
TNJHU200	200	3	100	40	76

\*Other current ratings available on request

## HRC FUSE LINK J TYPE FEEDER PILLAR 82MM FIXING CENTRE – JPU TYPE (MJ30)

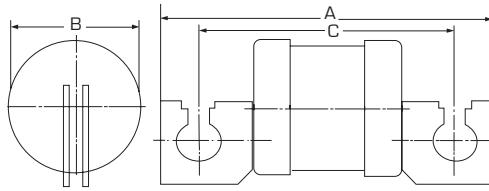
- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2-/ IEC 60269-2-1
- Class: gG/Q1



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm		
			A	B	C
TNJPU63	63	3	111	40	82
TNJPU80	80	3	111	40	82
TNJPU100	100	3	111	40	82
TNJPU125	125	3	111	40	82
TNJPU160	160	3	111	40	82
TNJPU200	200	3	111	40	82
TNJPU250	250	3	111	40	82
TNJPU315	315	3	111	40	82
TNJPU400	400	3	111	40	82

## HRC FUSE LINK J TYPE FEEDER PILLAR 92MM FIXING CENTRE – JSU TYPE (MJ31)

- Rated Voltage: 550V AC
- Rated breaking capacity: 80kA
- Standard specifications: BS88-2/ IEC 60269-2-1
- Class: gG/Q1

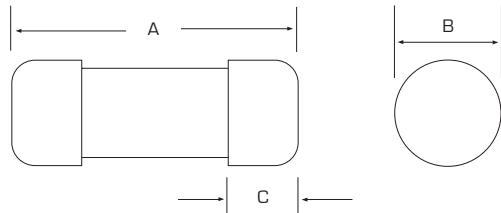


CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm		
			A	B	C
TNJSU63	63	3	131	46	92
TNJSU80	80	3	131	46	92
TNJSU100	100	3	131	46	92
TNJSU160	160	3	131	46	92
TNJSU200	200	3	131	46	92
TNJSU315	315	3	131	46	92
TNJSU355	355	3	131	46	92
TNJSU400	400	3	131	46	92

\*Other current ratings available on request

## HRC FUSE LINK CYLINDRICAL 10X38MM

- Rated Voltage: 500V AC
- Rated breaking capacity: 120kA
- Standard specifications: IEC 60269-2-1
- Class: gG/gL

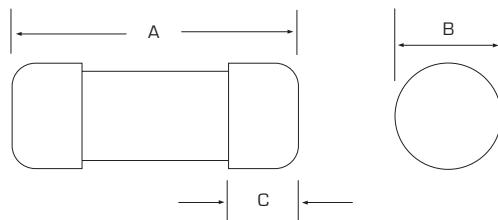


CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm		
			A	B	C
CH10-NB002	2	10	38	10.3	9.5
CH10-NB004	4	10	38	10.3	9.5
CH10-NB006	6	10	38	10.3	9.5
CH10-NB010	10	10	38	10.3	9.5
CH10-NB016	16	10	38	10.3	9.5
CH10-NB020	20	10	38	10.3	9.5
CH10-NB025	25	10	38	10.3	9.5
CH10-NB032	32	10	38	10.3	9.5



### HRC FUSE LINK CYLINDRICAL 22X58MM - ME TYPE (KR85)

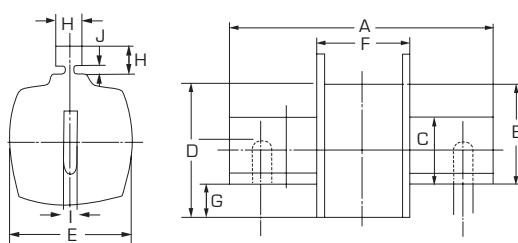
- Rated Voltage: 500V AC
- Rated breaking capacity: 100kA
- Standard specifications: IEC EN 60269-2-1
- Class: gG/gL



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm		
			A	B	C
TNME5	5	5	58	22	9.5
TNME10	10	5	58	22	9.5
TNME15	15	5	58	22	9.5
TNME20	20	5	58	22	9.5
TNME30	30	5	58	22	9.5
TNME40	40	5	58	22	9.5
TNME50	50	5	58	22	9.5
TNME60	60	5	58	22	9.5
TNME80	80	5	58	22	9.5
TNME100	100	5	58	22	9.5

### FUSE LINK DIN TYPE SIZE 00 - (NH00)

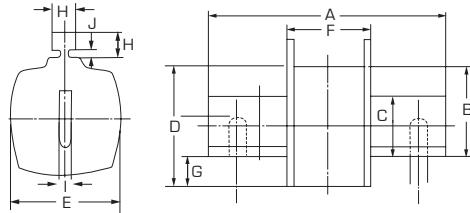
- Rated Voltage: 690V AC
- Rated breaking capacity: 120kA
- Standard specifications: IEC EN 60269-2-1
- Class: gG/gL



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm									
			A	B	C	D	E	F	G	H	I	J
TNNH0016	16	5	78.5	35	15	45	29	49	11.5	10	6	2.5
TNNH0032	32	5	78.5	35	15	45	29	49	11.5	10	6	2.5
TNNH0040	40	5	78.5	35	15	45	29	49	11.5	10	6	2.5
TNNH0063	63	5	78.5	35	15	45	29	49	11.5	10	6	2.5
TNNH0080	80	5	78.5	35	15	45	29	49	11.5	10	6	2.5
TNNH00100	100	5	78.5	35	15	45	29	49	11.5	10	6	2.5
TNNH00125	125	5	78.5	35	15	45	29	49	11.5	10	6	2.5
TNNH00160	160	5	78.5	35	15	45	29	49	11.5	10	6	2.5

## FUSE LINK NH DIN TYPE SIZE 1 - (NH1)

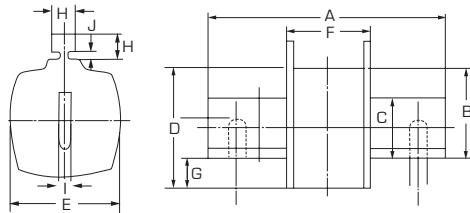
- Rated Voltage: 500V/690V AC
- Rated breaking capacity: 120kA
- Standard specifications: IEC EN 60269-2-1
- Class: gG/gL



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm									
			A	B	C	D	E	F	G	H	I	J
TNNH163	63	3	135	40	21	48	48	68	12	10	6	2.5
TNNH180	80	3	135	40	21	48	48	68	12	10	6	2.5
TNNH1100	100	3	135	40	21	48	48	68	12	10	6	2.5
TNNH1125	125	3	135	40	21	48	48	68	12	10	6	2.5
TNNH1160	160	3	135	40	21	48	48	68	12	10	6	2.5
TNNH1200	200	3	135	40	21	48	48	68	12	10	6	2.5
TNNH1250	250	3	135	40	21	48	48	68	12	10	6	2.5

## FUSE LINK DIN TYPE SIZE 2 - (NH2)

- Rated Voltage: 500V/690V AC
- Rated breaking capacity: 120kA
- Standard specifications: IEC EN 60269-2-1
- Class: gG/gL



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm									
			A	B	C	D	E	F	G	H	I	J
TNNH263	63	1	150	48	27	58	58	68	13	10	6	2.5
TNNH280	80	1	150	48	27	58	58	68	13	10	6	2.5
TNNH2100	100	1	150	48	27	58	58	68	13	10	6	2.5
TNNH2125	125	1	150	48	27	58	58	68	13	10	6	2.5
TNNH2160	160	1	150	48	27	58	58	68	13	10	6	2.5
TNNH2200	200	1	150	48	27	58	58	68	13	10	6	2.5
TNNH2250	250	1	150	48	27	58	58	68	13	10	6	2.5
TNNH2315	315	1	150	48	27	58	58	68	13	10	6	2.5
TNNH2400	400	1	150	48	27	58	58	68	13	10	6	2.5

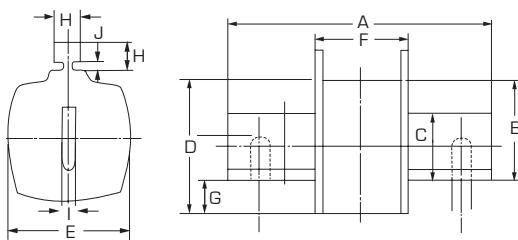
## FUSE LINK NH DIN TYPE SIZE 3 - (NH3)

Rated Voltage: 690V AC

Rated breaking capacity: 120kA

Standard specifications: EN 60269-2-1

Class: gG/gL



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm									
			A	B	C	D	E	F	G	H	I	J
TNNH3315	315	1	150	60	33	67	67	68	14	10	6	2.5
TNNH3400	400	1	150	60	33	67	67	68	14	10	6	2.5
TNNH3500	500	1	150	60	33	67	67	68	14	10	6	2.5
TNNH3630	630	1	150	60	33	67	67	68	14	10	6	2.5

## SOLID BLADE LINKS DIN TYPE - (NH)

CAT NO.	AMPS	DIMENSIONS mm						
		A	B	C	F	H	I	J
SLLPN00160	160	78.5	35	15	48	10	6	2.5
SLLPN1250	250	135	40	21	68	10	6	2.5
SLLPN2400	400	150	48	27	68	10	6	2.5
SLLPN3630	630	150	60	33	68	10	6	2.5



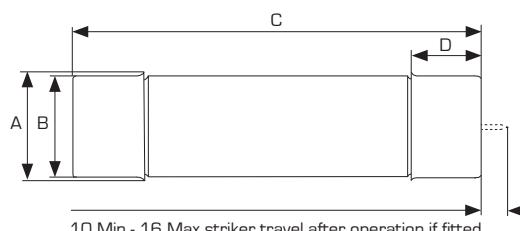
## COOPER BUSSMANN OIL FUSE LINKS 12kV

Current Limiting 12kV Fuse Links for use in Oil Switchgear

Rated Voltage: 12kV

Rated Breaking Capacity: 40kA

Standard specifications: IEC 282-1/BS 2692-1/ESI 12-8



CAT NO.	AMPS	DIMENSIONS mm			
		A	B	C	D
120EFMA10	10	68	63.5	254	44
120EFMA16	16	68	63.5	254	44
120EFMA20	20	68	63.5	254	44
120EFMA31.5	31.5	68	63.5	254	44
120EFMA35.5	35.5	68	63.5	254	44
120EFMA40	40	68	63.5	254	44
120EFMA50	50	68	63.5	254	44
120EFMA56	56	68	63.5	254	44
120HFMA80	80	68	63.5	254	44
120HFMA90	90	68	63.5	254	44

## AB CHANCE TYPE K AND TYPE T FUSE LINKS – 11KV, 22KV, 33KV

Chance Type K and Type T fuse links are made in complete accordance with ANSI/NEMA standards. Chance fuse links assure system protection because they are precision manufactured. The fusible materials used in Chance Fuse Links are under continual control during manufacture. Pre-tested to guarantee their electrical values, these materials are held to

precise tolerances. At critical points during the manufacturing process, rigid inspections are made.

Chance Type K and Type T fuse links are designed to carry 150% of their rated current without damage to the fuse link itself or the cutout in which it is installed. This capacity is for special loading situations, such as short-time overloads and cold load pick-up.

### TYPE T FUSE LINKS

Application – Chance Type T fuse links provide slower time current characteristics than the Type K links. Type T links coordinate particularly well with automatic oil-circuit reclosers.



### TYPE K FUSE LINKS

Application – The fast characteristics of Type K fuse links were established by ANSI/NEMA to provide fuse links that would meet existing coordination schemes.

T SPEED	CAT NO.	K SPEED	DESCRIPTION
M1TA23		M1KA23	1A FUSELINK 23"
M2TA23		M2KA23	2A FUSELINK 23"
M3TA23		M3KA23	3A FUSELINK 23"
M6TA23		M6KA23	6A FUSELINK 23"
M8TA23		M8KA23	8A FUSELINK 23"
M10TA23		M10KA23	10A FUSELINK 23"
M12TA23		M12KA23	12A FUSELINK 23"
M15TA23		M15KA23	15A FUSELINK 23"
M20TA23		M20KA23	20A FUSELINK 23"
M25TA23		M25KA23	25A FUSELINK 23"
M30TA23		M30KA23	30A FUSELINK 23"
M40TA23		M40KA23	40A FUSELINK 23"
M50TA23		M50KA23	50A FUSELINK 23"
M65TA23		M65KA23	65A FUSELINK 23"
M80TA23		M80KA23	80A FUSELINK 23"
M100TA23		M100KA23	100A FUSELINK 23"

# SERVICE FUSE CARRIERS

## K07 END ENTRY FUSE CARRIER

The TE end entry/end entry fuse carrier is designed to fit the same footprint as other K07 style fuse carriers. Will accommodate fuse links up to 63amps this fuse carrier is excellent for fusing a house service.

CAT NO.	FUSE LINK STYLE	CABLE RANGE (mm <sup>2</sup> )	AMPS
2-361000-0	OFFSET TAG 73mm CENTRE	UP TO 50	63



## TNNHP100 FUSE CARRIER

### KEY FEATURES

- UV Stabilised Glass Reinforced body
- Double Circlip for retention of fuselink
- Captured fuse base, will stay in place even without fuselink
- Watertight cable entry ports
- Stainless steel bracket for cross arm application
- Swanneck pin for pole application
- Contacts are made of high quality materials, and tested for performance
- Conductor range 6-35mm<sup>2</sup>

CAT NO.	FUSE LINK STYLE	CABLE RANGE (mm <sup>2</sup> )	AMPS
TNNHP100	22x58mm BARREL	6-35	100



## INSULATION PIERCING (IPC) FUSE CARRIERS

Michaud fuse carriers offer the added simplicity of being an insulation piercing connector (IPC) meaning the insulation on the conductor does not need to be removed. The special shear head

bolt breaks off at the correct torque ensuring an accurate and consistent connection pressure is reached.

### KEY FEATURES

- UV Stabilised black body
- Double circlip for retention of fuse
- Captured fuse base, will stay in place even without fuselink
- Watertight cable entry points
- IPC connection

## K223

This fuse carrier is designed to use a 10.3x38mm fuse cartridge or neutral tube. It provides electrical protection to insulated service or street light conductors connected to a low voltage circuit. Maximum rating is 20A.

CAT NO.	FUSE LINK STYLE	CABLE RANGE (mm <sup>2</sup> )	AMPS
K223	10x38mm BARREL	16-95MAIN, 1.5-10TAIL	20



## K491

This fuse switch disconnector is a single phase device that is normally used as a house service fuse or isolation point. It provides electrical protection to an individual customer. It is designed to accommodate up to 100A 22x58 size barrel fuse cartridge or neutral tube (according to IEC 269-2.1). It suits aluminium or copper insulated cables from 6 up to 35mm<sup>2</sup>.



CAT NO.	FUSE LINK STYLE	CABLE RANGE (mm <sup>2</sup> )	AMPS
K491	22x58mm BARREL	6-35	100

## K291 & K292

This Fuse switch disconnector is a single phase device that is normally used as a house service fuse or isolation point. It provides electrical protection to either an aerial service supplying an individual customer or for a low voltage circuit of a pole mounted transformer.

There are two types of FSD; the K292 suits 160A size 00 DIN fuse links and 240A solid connecting links (according to IEC 269-2.1) and the K291 suits up to 100A 22x58 barrel fuse links (according to IEC 269-2.1). FSD suits aluminium or copper insulated cables from 6 up to 95mm<sup>2</sup>.



CAT NO.	FUSE LINK STYLE	CABLE RANGE (mm <sup>2</sup> )	AMPS
K291	22x58mm BARREL	6-35	100
K292	NH00	6-95	160

## BRACKETS

### KEY FEATURES

- All brackets are made of galvanised steel highly resistant to corrosion
- Fixing on pole is achieved by bolting galvanised bracket to pole/crossarm
- All brackets will fit all overhead Michaud fittings
- All overhead Michaud fuse corners come with a individual bracket



CAT NO.	DESCRIPTION
BRAC001	Galvanised Bracket for mounting 1, 2 or 3 fuses
BRAC001TWISTED	Galvanised Bracket for mounting 1, 2 or 3 fuses, Twisted 90°
BRAC002TWISTED	Galvanised Bracket for single mounting, Twisted 90°



## FUSE PULLING TOOLS

Designed specifically to remove the fuse holder from the overhead fuse carriers, both have the hotstick attachment.

CAT NO.	DESCRIPTION
TNHSFP	HOUSE SERVICE FUSE PULLER FOR HAND OR HOTSTICK APPLICATION
DUALPULLER	DUAL HOUSE SERVICE & DDO FUSE PULLER



## WATERPROOF FUSE CARRIERS

This range of watertight fuse carriers covers applications from 2.5mm<sup>2</sup> up to 50mm<sup>2</sup> conductor and up to 100amps.

### 65U

Compression style installation is required for this fuse carrier. Designed for lighting applications, the 65U is fully submersible and perfect for lighting installations. The rubber housing is easily adjusted to fit a range of conductor sizes. This fuse carrier is simple to use, just push the two halves together to create a friction seal.

CAT NO.	FUSE LINK STYLE	DESCRIPTION	CABLE RANGE (mm <sup>2</sup> )	AMPS
65U	10x38mm BARREL	WATERTIGHT	2.5-16	30



### K221

This fuselink carrier is designed to accommodate 22x58 barrel fuse cartridges, neutral tube or mini-switch. It is designed for use without mechanical load. Mechanical tightening terminals allow installation in the ABC (Aerial Bundled Conductors) using a simple spanner. The K221 has an IP65 rating which makes it perfect for use in pillar boxes.

CAT NO.	FUSE LINK STYLE	DESCRIPTION	CABLE RANGE (mm <sup>2</sup> )	AMPS
K221	22x58mm BARREL	IP65 - IPC	6-50	100



### K199

This Insulation Piercing Pit Connector is designed to accommodate a 22x58 size fuse cartridge, neutral tube or mini-switch. It is used to connect the customer to the underground supply cable. It is designed to be installed in a pit and to operate fully submersed in water. Mechanical tightening terminals allow installation on a conductor using a simple hexagon wrench.

CAT NO.	FUSE LINK STYLE	DESCRIPTION	CABLE RANGE (mm <sup>2</sup> )	AMPS
K199	22x58mm BARREL	P68 - IPC	6-50	100



## STAND OFF INSULATORS

### LV STAND OFF INSULATORS

CAT NO.	DIMENSIONS	KV RATING
1050GN	50x41xM10	3.3
1050HN	50x41xM12	3.3



# TAPE

TAPE	PAGE
Insulation Tape	112
Self Amalgamating Rubber Tape	112
Duct Tape	113
Double Sided Tape	114
Hook 'n' Loop	114



## INSULATION TAPE

This flame retardant PVC Electrical Tape consists of a plasticised Polyvinyl Chloride film backing, coated on one side with aggressive Rubber-Resin adhesive with good ageing characteristics giving it excellent elasticity and adhesion properties.

### TECHNICAL DATA

- Nominal Dimensions – 0.18mm x 18mm x 20m
- Tape backing – PVC
- Adhesive – Rubber-Resin Adhesive
- Thickness – 0.18mm
- Adhesion – >0.45kg/25mm
- Tensile strength – >7kg/25mm
- Elongation – >100%
- Breakdown Voltage – >7kV

Highly conformable and unaffected by moisture and most chemicals, this tape showed no flagging or deterioration even under temperatures as high as 80°C. Can be used for basic insulation, harnessing and general wire wrapping.



CAT NO.	DESCRIPTION	COLOUR
ITBK/10	10pkt PVC TAPE BLACK	BLACK
ITBL/10	10pkt PVC TAPE BLUE	BLUE
ITWH/10	10pkt PVC TAPE WHITE	WHITE
ITRD/10	10pkt PVC TAPE RED	RED
ITY/10	10pkt PVC TAPE YELLOW	YELLOW
ITG/10	10pkt PVC TAPE GREEN	GREEN
ITRP	10pkt PVC TAPE RAINBOW	RAINBOW
ITGY/10	10pkt PVC TAPE GREEN/YELLOW	GREEN/YELLOW

## SELF AMALGAMATING BUTYL RUBBER TAPE – SELF FUSING

Premium self fusing butyl rubber tape, widely used for the electrical insulation, protection, waterproofing and termination of 6-22kV cables.

No inter liner, no peeling off time. Exceptional weatherability and ozone resistance. Excellent resistance to moisture, water and chemicals. Good self fusing properties – completely self amalgamates in two hours.

### TECHNICAL DATA

- Application temperature – From -10°C to 40°C
- Operating temperature – Constant Max 65°C, up to 100°C for short periods
- Breakdown Voltage – 44kV/mm

To use this tape correctly, elongate approximately 80% [almost twice its original length]. Keep the tape under tension and wrap, overlapping successive layers approximately 50% until the desired build up of insulation is achieved. Finish by folding the tape end inside for about 2cm, to avoid danger of external pressure making it difficult to unwind. The surface on which this tape is to be used must be clean, dry and free from grease and dust.

### STANDARDS

- ASTM D 1000
- ASTM D 1373
- ASTM D 1973
- ASTM D 150
- ASTM D 470



CAT NO.	DESCRIPTION	COLOUR	ROLL WIDTH	ROLL LENGTH
SAT25	SELF AMALGAMATING BUTYL RUBBER TAPE – SELF FUSING	BLACK	25mm	10m
SAT50	SELF AMALGAMATING BUTYL RUBBER TAPE – SELF FUSING	BLACK	50mm	10m

## WATERPROOF PREMIUM CLOTH TAPE – DUCT TAPE

Premium polyethylene coated rayon cloth with a thick layer of high tack rubber adhesive. Extra strong 80 mesh rayon fabric construction.

Waterproof multi purpose joining and sealing tape for difficult situations. Hand tearable for ease of use, good conformability and clean removal characteristics. Thick, high tack adhesive bonds to most surfaces including rough and irregular ones. Rolls can be cut to required width onsite.

### TECHNICAL DATA

- PE plastic coated rayon cloth fabric backing
- Natural rubber resin adhesive
- Silver colour
- 0.31mm Tape thickness
- 67N/CM Breaking load
- 11% elongation at break
- 9N/25mm Adhesion
- 12 months Shelf life

### SURFACE PREPARATION

The surface on which the tape is to be used must be clean, dry and free from grease and dust. Remember that this pressure sensitive tape must be applied with the maximum possible pressure in order to achieve maximum adhesion levels. The recommended application temperature is between 15°C and 25°C.



CAT NO.	DESCRIPTION	COLOUR	ROLL LENGTH
CDT48	WATERPROOF PREMIUM CLOTH TAPE – DUCT TAPE	SILVER	25m

## PVC DUCT TAPE

Plasticised PVC Film one side coated with a high tack pressure sensitive natural rubber adhesive. It has excellent conformability and durability. Often called a plastic 'DUCT TAPE'. Used for joining, patching and repairing polythene/plastic films and ducts. Good UV and water resistance, suitable for exterior use.

### TECHNICAL DATA

- Backing PVC Film
- Adhesive Natural Rubber – Excellent bonding power
- Silver colour
- 0.13mm Tape thickness
- 6N/25mm Adhesion
- 150% Elongation
- 80°C Temperature resistance

### SURFACE PREPARATION

The surface on which the tape is to be used must be clean, dry and free from grease and dust. The recommended application temperature is between 15°C and 25°C.



CAT NO.	DESCRIPTION	COLOUR	ROLL WIDTH	ROLL LENGTH
DT48	PVC DUCT TAPE	SILVER	48mm	30m

## DOUBLE SIDED TAPE

Used for holding, joining or bonding a wide variety of surfaces, this double sided tape is available in three sizes and boasts an aggressive adhesive for strength and durability. Fast and easy to install, this cost effective fastener is versatile and reliable.

- Adhesion-0.25kg/cm<sup>2</sup>
- Colour-White

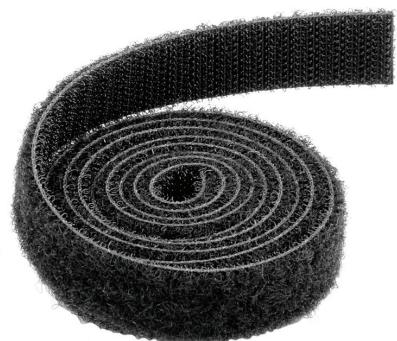


CAT NO.	DESCRIPTION
TNDST12	12mm x 10m DOUBLE SIDED TAPE
TNDST18	18mm x 10m DOUBLE SIDED TAPE
TNDST24	24mm x 10m DOUBLE SIDED TAPE

## HOOK & LOOP

Continuous reel of back to back grip hook and loop. Reduce waste by cutting to required length onsite. Offers a secure but gentle cable support. Reusable over and over, simply open and refasten as required.

CAT NO.	DESCRIPTION	LENGTH m
TNHL1225	12mm BLACK HOOK & LOOP	25
TNHL1250	12mm BLACK HOOK & LOOP	50
TNHL2025	20mm BLACK HOOK & LOOP	25



# CABLE MANAGEMENT & ASSOCIATED PRODUCTS

The products in this section are used for fastening, bonding and identification. A large range of options are available for a range of

cable bundle requirements. They provide a good means for neatly securing cables to surfaces.

PLUGS & CLIP STYLE CONNECTORS	PAGE
Trailer Plugs	116
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CABLE BUNDLING & HARNESS ACCESSORIES	PAGE
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Anti-Bacterial Hand Cleaning Wipes	132
PROTECTION	PAGE
Cable Cover	133
Warning Strip	134
Pole Cover	134

## TRAILER PLUGS

The Utilux flat trailer connector has two parts - plug and socket. Connectors are UV stabilised, made from impact resistant thermoplastic and have a spring loaded lid that locks the connection. Nickel plated contacts provide excellent electrical performance.

CAT NO.	DESCRIPTION
H40904/D1	7 PIN TRAILER PLUG
H40905/D1	7 PIN TRAILER PLUG BASE
H40904-HOLDER	7 PIN TRAILER PLUG HOLDER



H40904-HOLDER

## BATTERY BOOSTER CLIPS

- Supplied in equal quantities of positive & negative
- All clips supplied with coloured plastic handles
- H811 has a Copper shunt between handles
- All clips supplied with Copper cable lug, screw and nut



CAT NO.	MATERIAL	MAX AMPS	JAW OPENING mm
H811/2	2mm COPPER	200	38
H812/2	2mm STEEL ZINC PLATED	100	38



## ALLIGATOR CLIPS

A high standard zinc chromate finish suitable makes these clips perfect for constant potential or series charging

- Pan head screw to ensure perfect contact



CAT NO.	DESCRIPTION	PACK SIZE
H141/150	NICKEL PLATED BRASS 5AMP CLIP	150
H141/D12		12
H2790/D10	ALLIGATOR CLIP 5AMP	10

## TEST CLIPS

CAT NO.	DESCRIPTION	PACK SIZE
H145/12	10 AMP ZINC PLATED STEEL TEST CLIP	12
H170	15 AMP ZINC PLATED STEEL TEST CLIP	1
H143/12	25 AMP ZINC PLATED STEEL TEST CLIP	12
H144/12	50 AMP ZINC PLATED STEEL TEST CLIP	12



# SINGLE CONDUCTOR CLAMPS

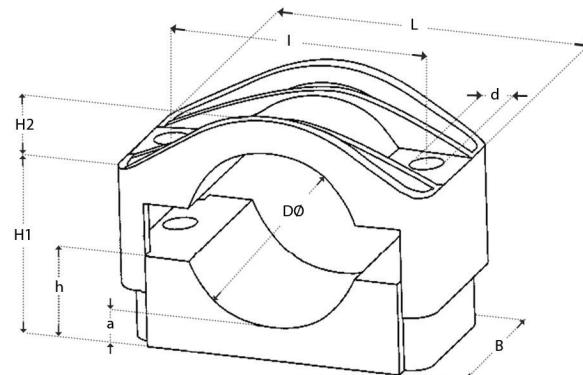
## SE26-38

### APPLICATIONS

For the mounting of one single or multi-conductor cable. For low, medium and high voltage cables with diameters of 26–38mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 30,000Nm
- Black coloured



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
SE26-38	30,000Nm	26-38	92	60	60	12	33-49	7	18	7

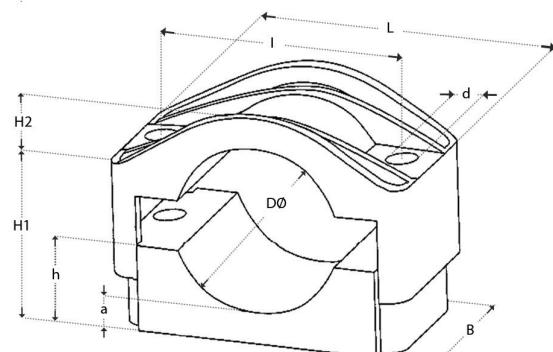
## SE36-52

### APPLICATIONS

For the mounting of one single or multi-conductor cable for low, medium and high voltage cables with diameters of 36–52mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 20,000Nm
- Black coloured



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
SE36-52	20,000Nm	36-52	105	60	75	12	39-55	15	23	8

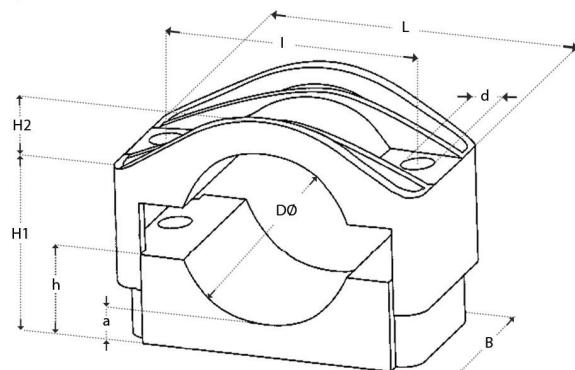
## SE50-75

### APPLICATIONS

For the mounting of one single or multi-conductor cable. For low, medium and high voltage cables with diameters of 50–75mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions.
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 20,000Nm
- Black coloured



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
SE50-75	20,000NM	50-75	126	60	95	12	46-71	22	30	9

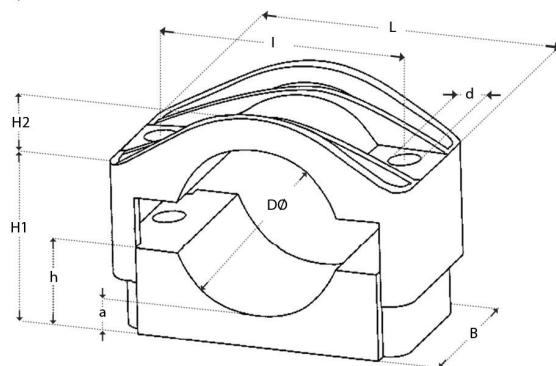
## SE75-100

### APPLICATIONS

For the mounting of one single or multi-conductor cable. For low, medium and high voltage cables with diameters of 75–100mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions.
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 68,800Nm
- Black coloured



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
SE75-100	68,800NM	75-100	200	80	150	12	70-95	32	45	10

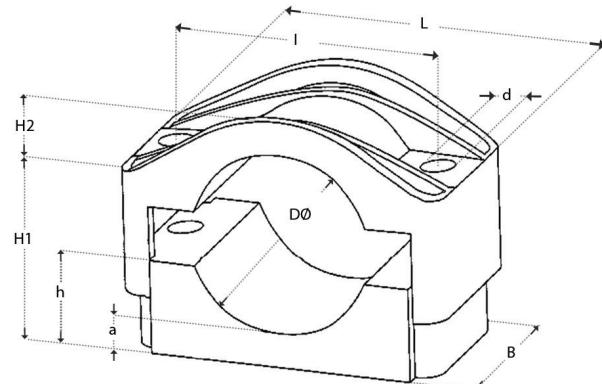
## SE100-135

### APPLICATIONS

For the mounting of one single or multi-conductor cable. For low, medium and high voltage cables with diameters of 100–135mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-0 (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 67,400Nm
- Black coloured



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
SE100-135	67,400NM	100-135	225	82	175	15	85-120	43	58	10

## SEG26-50 – WITH CENTRE MOUNTING HOLE

### APPLICATIONS

For the mounting of one single or multi-conductor cable. For low, medium and high voltage cables with diameters of 26–50mm as well as conduits and hoses.

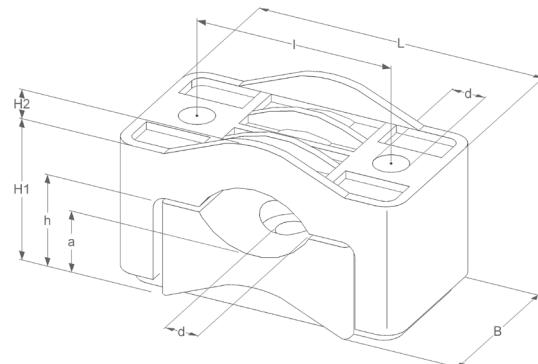
This clamp has a central mounting hole, the hole is counter sunk to ensure the head of the bolt does not impose on cable position.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-0 (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 20,000Nm
- Black coloured



CENTRE MOUNTING HOLE



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
SEG26-50	20,000NM	26-50	111	60	76	12.5	55.5	11.5	36	24

## SEG50-80 – WITH CENTRE MOUNTING HOLE

### APPLICATIONS

For the mounting of one single or multi-conductor cable. For low, medium and high voltage cables with diameters of 50–80mm as well as conduits and hoses.

This clamp has a central mounting hole, the hole is counter sunk to ensure the head of the bolt does not impose on cable position.

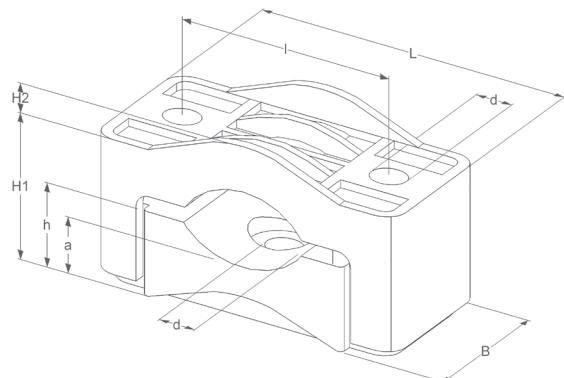


### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions.
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 20,000Nm
- Black coloured



CENTRE MOUNTING HOLE



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
SEG50-80	20,000NM	50-80	136	60	100	12.5	108	15	47	22.7

## TREFOIL CONDUCTOR CLAMPS

### TRIPLE27-38

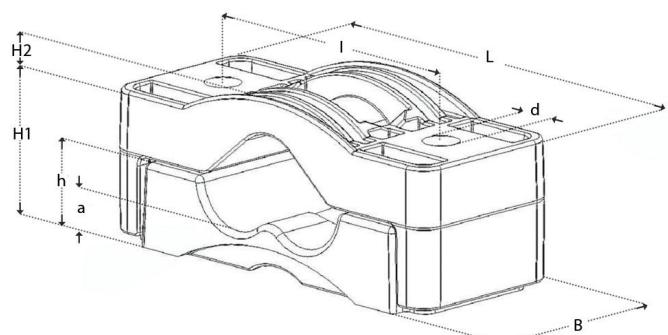
### APPLICATIONS

For the mounting of three single or multi-conductor cables in a triangular configuration. For low, medium and high voltage cables with diameters of 27–38mm as well as conduits and hoses.



### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 35,900Nm
- The mounting holes are Ø15.5mm, allowing the thread to be extended. The existing configuration can be expanded at any time. Easily, simply and at little cost
- The centre of the lower shell has an extra mounting hole for optional mounting using a single bolt
- Black coloured
- Stackable



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
TRIPLE27-38	35,900NM	27-38	180	180	75	125	15.5	63	12	16.5

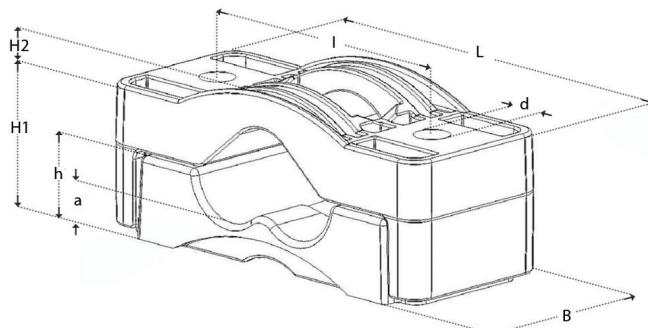
## TRIPLE38-51

### APPLICATIONS

For the mounting of three single or multi-conductor cables in a triangular configuration. For low, medium and high voltage cables with diameters of 38–51mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 39,800Nm
- The mounting holes are Ø15.5mm, allowing the thread to be extended. The existing configuration can be expanded at any time. Easily, simply and at little cost
- The centre of the lower shell has an extra mounting hole for optional mounting using a single bolt
- Black coloured
- Stackable



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
TRIPLE 38-51	39,800NM	38-51	195	80	145	15.5	84	16	45	20

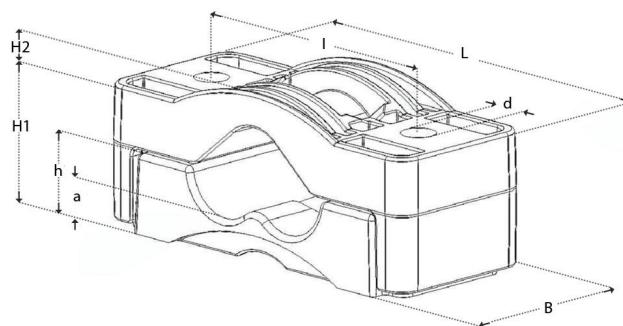
## TRIPLE51-69

### APPLICATIONS

For the mounting of three single or multi-conductor cables in a triangular configuration. For low, medium and high voltage cables with diameters of 51–69mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 69,900Nm
- The mounting holes are Ø15.5mm, allowing the thread to be extended. The existing configuration can be expanded at any time. Easily, simply and at little cost
- The centre of the lower shell has an extra mounting hole for optional mounting using a single bolt
- Black coloured
- Stackable



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
TRIPLE51-69	69,900NM	51-69	220	85	170	15.5	109	21	56	26

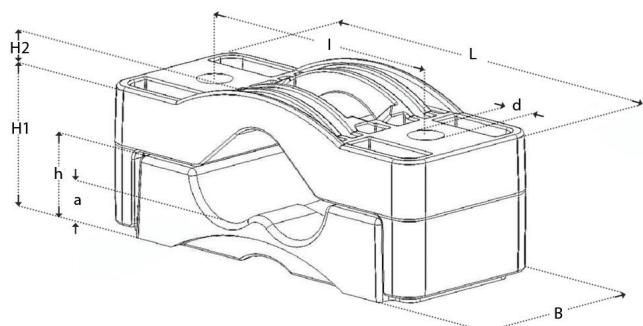
## TRIPLE69-90

### APPLICATIONS

For the mounting of three single or multi-conductor cables in a triangular configuration. For low, medium and high voltage cables with diameters of 69-90mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 56,700Nm
- The mounting holes are Ø15.5mm, allowing the thread to be extended. The existing configuration can be expanded at any time. Easily, simply and at little cost
- The centre of the lower shell has an extra mounting hole for optional mounting using a single bolt
- Black coloured
- Stackable



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
TRIPLE69-90	56,700NM	69-90	252	90	215	15.5	134	29	72	30

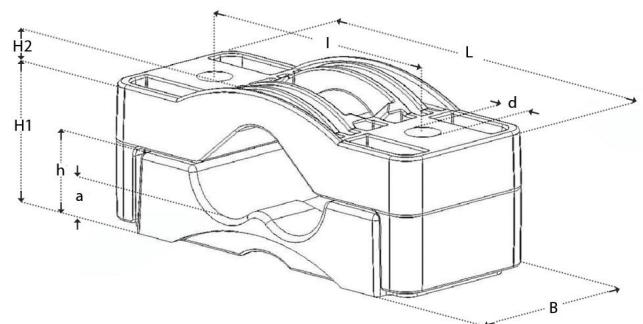
## TRIPLE 90-118

### APPLICATIONS

For the mounting of three single or multi-conductor cables in a triangular configuration. For low, medium and high voltage cables with diameters of 90-118mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke
- Temperature range from -40°C to 120°C
- Mechanical strength: 54,300Nm
- The mounting holes are Ø15.5mm, allowing the thread to be extended. The existing configuration can be expanded at any time. Easily, simply and at little cost
- The centre of the lower shell has an extra mounting hole for optional mounting using a single bolt
- Black coloured
- Stackable



CAT NO.	MECHANICAL STRENGTH	mm O.D	L	B	I	d	H <sub>1</sub>	H <sub>2</sub>	h	a
TRIPLE90-118	54,300NM	90-118	321	100	270	15.5	180	27	69	33

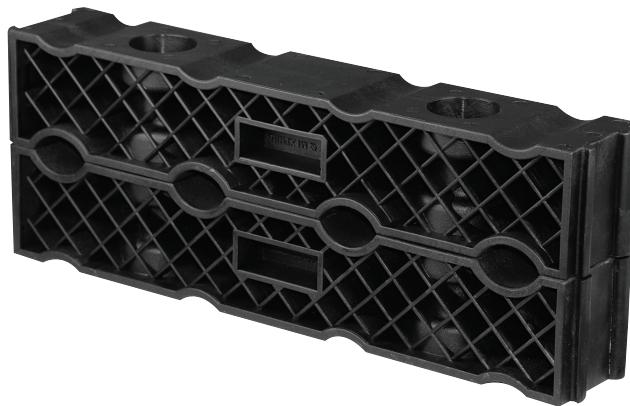
## UNIFIX

### APPLICATIONS

For mounting four single or multi-conductor cables or any multiple for low, medium and high voltage cables with diameters of 12–48mm as well as conduits and hoses.

### CHARACTERISTICS

- Made of glass fibre reinforced polyamide (PA)
- Resistant to oils, UV, ozone, salts, moisture, acids and even radioactive emissions
- Self-extinguishing V-O (UL94), halogen-free, low smoke.
- The mounting holes are Ø13mm, allowing the thread to be extended. The existing configuration can be expanded at any time. Easily, simply and at little cost
- Temperature range from -40°C to 120°C
- Mechanical strength: 29,500Nm
- Stackable
- Dovetail connections for end-to-end attachment
- Black coloured



1 layer of cables	[2 pieces] for installation of 4 cables
2 layers of cables	[3 pieces] for installation of 8 cables
3 layers of cables	[4 pieces] for installation of 12 cables
4 layers of cables	[5 pieces] for installation of 16 cables
5 layers of cables	[6 pieces] for installation of 20 cables

\* Sold in packs of 2 pieces

CAT NO.	MECHANICAL STRENGTH	DESCRIPTION
UNIFIX-IM	29,500NM	CABLE CLAMP LV 4 X 12-32mm O.D.
UNIFIX-32-48	29,500NM	CABLE CLAMP LV 4 X 32-48mm O.D.

## CABLE CLAMPS – UNIVERSAL

For securing electrical cable from a diameter of 30mm–100mm, to a power pole or beam. The design of the cable holder allows for a variety of cable sizes due to, the variable adjustment and locking points. The clamp has applications in power authorities, mining, railways, building and construction.

### FEATURES

- Optional fixing methods, either using a bolt or band clamp strapping

### MATERIAL

The clamp body is made from mild steel, which has been blanked and formed, then hot-dip galvanised

- The strap is made from 304 grade stainless steel
- The pin is die cast zinc
- Horizontal and vertical fixing options available



CAT NO.	CABLE (DIA.) mm	DESCRIPTION
CBH30-100/1	30-100	HORIZONTAL DOUBLE FIXING BOLT
CBH30-100V/1	30-100	VERTICAL DOUBLE FIXING BOLT
UKR90	20-90	SINGLE FIXING BOLT

## CABLE BUNDLING & HARNESS ACCESSORIES

### CABLE TIES – UTI TIES

- Durable
- Available in natural finish or weather resistant black
- Smooth edges to avoid cuts
- Tapered tip for ease of use
- Self locking system resists slippage
- Halogen Free



NATURAL	WEATHER RESISTANT	LENGTH mm	WIDTH mm	MAX BUNDLE DIA. mm	TENSILE STRENGTH KG	PACK SIZE* SUFFIX
HST80M/	HST80M-BK/	80		18	8	100/1000
HST100M/	HST100M-BK/	102		25	8	100/1000
HST140M/	HST140M-BK/	140	2.5	35	8	100/1000
HST160M/	HST160M-BK/	160		44	8	100/1000
HST200M/	HST200M-BK/	200		55	8	100/1000
HST140L/	HST140L-BK/	140		35	18	100/1000
HST200L/	HST200L-BK/	200	3.2	55	18	100/1000
HST300L/	HST300L-BK/	300	3.6	85	18	100/1000
HST250ST/	HST250ST-BK/	250	4.6	74	22	100
HST160ST/	HST160ST-BK/	160		44	22	100/1000
HST200ST/	HST200ST-BK/	200		55	22	100/1000
HST300ST/	HST300ST-BK/	300		85	22	100/1000
HST370ST/	HST370ST-BK/	370		102	22	50/100
-	HST430ST-BK/	430		125	22	50/100
HST200HD/	HST200HD-BK/	200		55	55	100
HST300HD/	HST300HD-BK/	300		102	55	100
HST370HD/	HST370HD-BK/	370		102	55	50/100
HST380HD/	HST380HD-BK/	380		102	55	50
-	HST940HD-BK/	940		270	80	100
-	HST1030EHD-BK/	1030		317	114	100
-	HST1168HD-BK/	1168		360	80	100
-	HST1219HD-BK/	1219		380	80	100
HST430HD/	HST430HD-BK/	430	8	125	80	50/100
HST450HD/	HST450HD-BK/	450		133	80	100
-	HST530HD-BK/	530		166	80	100
-	HST760HD-BK/	760		236	80	50
-	HST580EHD-BK/	580	13	175	114	100

\*When ordering add suffix 100 = Pack Size 100, 1000 = Pack Size 1000

### CABLE TIE MOUNTS – 4 WAY

Stick on mounting bases are low profile and have a 4-way base for quick and easy installation. Bases stick to most indoor surfaces, simply peel off the paper backing and firmly apply to any clean, dry, smooth, non-greasy surface. Standard and light Cable Ties insert and secure easily for all types of bundling requirements.



CAT NO.	COLOUR	LENGTH mm	WIDTH mm	HEIGHT mm	PACK QTY
TM19194/100	NATURAL	19	19	4	100
TM28284/100	NATURAL	28	28	4	100

## STAINLESS STEEL CABLE TIES

Stainless Steel Cable Ties are a quick and effective way to secure cables. They are much quicker than traditional strapping systems and have a unique ball bearing locking mechanism that allows the tie to be easily installed and fixed. These cable ties have an off-set

tip to ease insertion of the tie end. The cable ties are made from 316 non-magnetic stainless steel. Typical uses are flame-proof installations, chemical environments and situations of long-term external exposure.

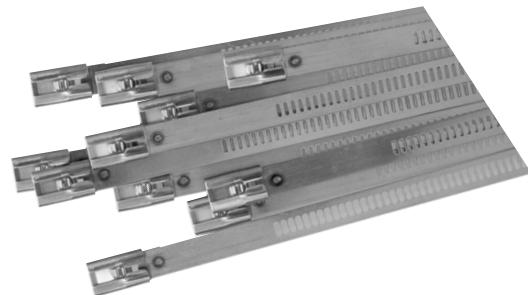
### TECHNICAL DATA

Material	Stainless Steel 316 grade
Tensile Strength	60kg/mm <sup>2</sup>
Operating Temp	-80°C to >500°C
Loop Tensile Strength	Standard Range 45kg Heavy Duty Range 110kg

## 316 STAINLESS STEEL CABLE TIES

- 0.3mm Thick

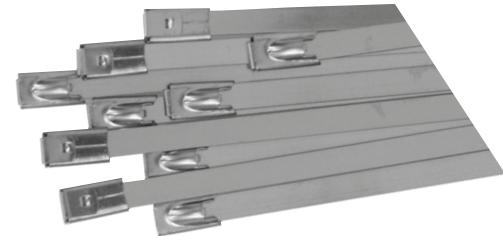
CAT NO.	LENGTH mm	WIDTH mm
STL-195S/10	195	
STL-255S/10	255	7
STL-335S/10	335	
STL-195M/10	195	
STL-255M/10	255	12
STL-335M/10	335	



## 316 STAINLESS STEEL CABLE TIES - BALL LOCK

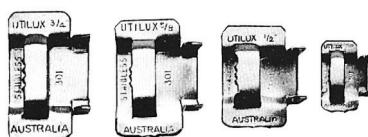
- 0.3mm Thick

CAT NO.	LENGTH mm	WIDTH mm
STB-152S/10	152	4.5
STB-200S/10	200	4.5
STB-360S/10	360	4.5



## STAINLESS STEEL BAND STRAP & BUCKLES

- Versatile
- Durable
- Ease of handling
- Low cost
- Stainless steel minimising corrosion
- Width: 10, 12.7, 16, 19mm
- Supplied in dispensers of 30m



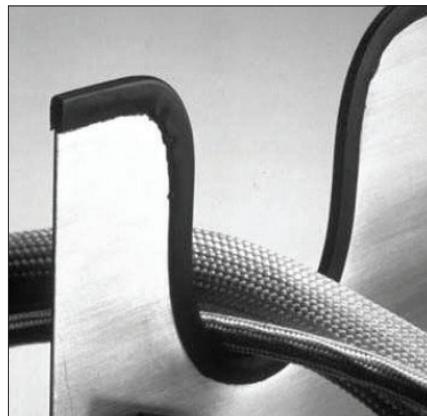
CAT NO.	REEL LENGTH	BRAND STRAP WIDTH mm	BUCKLES	PACK QTY	TOOLING
H3013M-30/1	30	9.5	H3001	100	#46
H3016M-30/1	30	12.7	H3004	100	
H3019M-30/1	30	16	H3007	100	
H3022M-30/1	30	19	H3010	100	

## RAYRIM - PROTECTIVE SELF-ADHESIVE EDGING MATERIAL

### APPLICATIONS

- Rayrim offers a clean and rapid means of covering metal, wood and glass edges for all round protection
- The flexible nature of Rayrim allows application to both internal and external radii, as well as straight edges
- Adhesive lining enables excellent adherence to many substrates

CAT NO.	PLATE THICKNESS		LENGTH mm
	SWG	mm	
RAYRIM - NR6 - 0 - STK	30-24	0.31-0.56	1200
RAYRIM - NR7 - 0 - STK	23-16	0.61-1.63	1200
RAYRIM - NR8 - 0 - STK	15-10	1.83-3.25	1200
RAYRIM - NR9 - 0 - STK	9-5	3.66-5.38	1200



## HOOK & LOOP

Continuous reel of back to back grip hook and loop. Reduce waste by cutting to required length onsite.

Offers a secure but gentle cable support. Reusable over and over, simply open and refasten as required.

CAT NO.	DESCRIPTION	LENGTH m
TNHL1225	12mm BLACK HOOK & LOOP	25
TNHL1250	12mm BLACK HOOK & LLOOP	50
TNHL2025	20mm BLACK HOOK & LOOP	25



## BRAIDED SLEEVING

The PEBS range is an expandable close weave braided sleeving. Offers mechanical strength and a very good resistance against salt water, oil, fuels and solvents.

Excellent for applications where cables are connected to moving parts and are constantly flexed.

### FEATURES

- Operating Temperature -70°C to 150°C
- Expandable to 300% of original size

CAT NO.	DIMENSIONS I.D. [mm]		LENGTH m
	MIN	MAX	
PEBS104PK	2	7	10
PEBS106PK	4	11	10
PEBS112PK	6	20	5
PEBS116PK	8	23	5
PEBS120PK	12	30	5
PEBS130PK	20	40	5
PEBS140PK	25	60	5



## STAINLESS STEEL SADDLES

Used to secure cables to substrates, simple to install and remove. A range of sizes available.

CAT NO.	SIZE mm OD
TSM16MM	STAINLESS SADDLE 16MM
TSM20MM	STAINLESS SADDLE 20MM
TSM25MM	STAINLESS SADDLE 25MM
TSM32MM	STAINLESS SADDLE 32MM



## METER SEALS

In order to ensure meters are not tampered with a seal of some type is required.

Meter seals also offer technicians a visual confirmation that the meter is still in the state it was left after the last technician was on site.

CAT NO.	DESCRIPTION	PACK SIZE
0-0361411-9	METER SEAL WITH RED PLASTIC CLIP	1
3268-100-100	METER SEALING WIRE 100mm	1000
3283-006	METER SEALING FERRULES 6mm	5000
3283-006-100	METER SEALING FERRULES 6mm	1000



## CABLE WRAPTORS

- Available in 3 different sizes (small, medium and large)
- Holds between 40kg -90kg load
- Reusable
- Suitable to hold cables, hoses, rope, cords tools, sports equipment, wire, household appliances and much much more

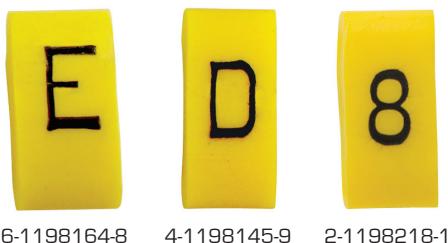


CAT NO.	I.D. mm
TNKCWSMALL	31-43
TNKCW MEDIUM	45-74
TNKCW LARG E	57-92

## CRITCHLEY K65 MARKERS

K-Type markers and carrier strips are ideal for identifying large cables, conduit and pipes, either before or after termination. The K-type cable markers are typically grouped together by sliding either a 7, 12, or 18 way marker carrier strip through the centre of the cable markers.

The marker carrier strip has slotted ends allowing fastening with cable ties or cable strapping to any size cable, conduit, or pipe.



6-1198164-8

4-1198145-9

2-1198218-1



CAT NO.	DESCRIPTION
0-1198219-4	250pce CRITCHLEY K-65 18 WAY STRIP
4-1198183-9	500pce CRITCHLEY K-65 12 WAY STRIP
9-1198155-1	CRITCHLEY K-65 CARRIER STRIP 7 DIGIT
9-1198175-7	CRITCHLEY K-65 MARKER B/Y BLANK
5-1198195-0	CRITCHLEY K-65 MARKER B/Y -
6-1198206-5	CRITCHLEY K-65 MARKER B/Y /
9-1198201-5	CRITCHLEY K-65 MARKER B/Y +
8-1198200-0	CRITCHLEY K-65 MARKER B/Y 0 (ZERO)
5-1198138-9	CRITCHLEY K-65 MARKER B/Y 1
8-1198139-9	CRITCHLEY K-65 MARKER B/Y 2
8-1198172-8	CRITCHLEY K-65 MARKER B/Y 3
2-1198143-6	CRITCHLEY K-65 MARKER B/Y 4
2-1198209-7	CRITCHLEY K-65 MARKER B/Y 5
3-1198173-0	CRITCHLEY K-65 MARKER B/Y 6
1-1198144-5	CRITCHLEY K-65 MARKER B/Y 7
2-1198218-1	CRITCHLEY K-65 MARKER B/Y 8
0-1198198-6	CRITCHLEY K-65 MARKER B/Y 9
1-1198173-5	CRITCHLEY K-65 MARKER B/Y A
3-1198151-6	CRITCHLEY K-65 MARKER B/Y B
4-1198148-6	CRITCHLEY K-65 MARKER B/Y C
4-1198145-9	CRITCHLEY K-65 MARKER B/Y D
6-1198164-8	CRITCHLEY K-65 MARKER B/Y E

CAT NO.	DESCRIPTION
6-1198198-3	CRITCHLEY K-65 MARKER B/Y F
5-1198200-0	CRITCHLEY K-65 MARKER B/Y G
7-1198153-3	CRITCHLEY K-65 MARKER B/Y H
3-1198157-2	CRITCHLEY K-65 MARKER B/Y I
8-1198143-6	CRITCHLEY K-65 MARKER B/Y J
1-1198192-6	CRITCHLEY K-65 MARKER B/Y K
7-1198206-0	CRITCHLEY K-65 MARKER B/Y L
9-1198163-9	CRITCHLEY K-65 MARKER B/Y M
6-1198189-6	CRITCHLEY K-65 MARKER B/Y N
3-1198192-9	CRITCHLEY K-65 MARKER B/Y O
9-1198203-9	CRITCHLEY K-65 MARKER B/Y P
4-1198184-7	CRITCHLEY K-65 MARKER B/Y Q
6-1198196-3	CRITCHLEY K-65 MARKER B/Y R
3-1198167-1	CRITCHLEY K-65 MARKER B/Y S
4-1198166-8	CRITCHLEY K-65 MARKER B/Y T
0-1198185-3	CRITCHLEY K-65 MARKER B/Y U
6-1198194-6	CRITCHLEY K-65 MARKER B/Y V
3-1198139-0	CRITCHLEY K-65 MARKER B/Y W
2-1198159-4	CRITCHLEY K-65 MARKER B/Y X
8-1198139-2	CRITCHLEY K-65 MARKER B/Y Y
6-1198147-6	CRITCHLEY K-65 MARKER B/Y Z

## SHRINKMARK – HEATSHRINKABLE LV PRINTABLE IDENTIFICATION SLEEVES

ShrinkMark marking sleeves are durable, flame-retardant and heatshrinkable. Ideal for tough industrial environments, including switchgear, motor control centers and terminal boxes, they shrink faster than convectional thermoplastic tags and offer a 3:1 shrink ratio.

Because ShrinkMark sleeves are extruded from tubes, they have a low installed profile with no edges to snag. The crosslinked polyolefin construction makes ShrinkMark sleeves resistant to abrasion, aggressive cleaning solvents and industrial fluids.

UL recognised to Standard 224 (file E35586) and CSA certified to C22.2 No. 198.1.

Used in conjunction with WINTOTAL software they are easy to setup and produces. Available in a range of sizes and two colours (Yellow and White).



CAT NO.	COLOUR	NOMINAL CONDUCTOR SIZE RANGE mm <sup>2</sup>	APPLICATION RANGE mm	PACK QUANTITY
SHRINKMARK-18-2-4	Yellow			250
SHRINKMARK-18-2-9	White	1.0-0.5	3.0-1.0	250
SHRINKMARK-18-2-9-1K	White			1000
SHRINKMARK-10-2-4	Yellow			250
SHRINKMARK-10-2-9	White	4.0-1.5	6.0-2.0	250
SHRINKMARK-2-2-4	Yellow			250
SHRINKMARK-2-2-9	White	16.0-4.0	12.0-4.0	250
SHRINKMARK-2-9-1K	White			1000
SHRINKMARK-250-2-9	White	95.0-6.0	25.0-8.0	250
SHRINKMARK-250-2-9-1	White			1000

\*Computer software and printer required

## SHRINKMARK PRINTER & ACCESSORIES

Printer, consumables and software are available from TransNet, complete system installation and back up service provided. See below for product codes.



CAT NO.	DESCRIPTION
T208M-PRINTER-KIT	KIT INCLUDES PRINTER, RIBBON, USB CABLE & SOFTWARE
TMS-101-RIBBON-4RPSC	RIBBON FOR T208M PRINTER
T208-USB CABLE	USB CABLE FOR T208M PRINTER KIT
IDP-DONGLE-SWARE	WIN TOTAL DONGLE SOFTWARE

## TEST TAGS

### STANDARD TAG

- The 'Great All Rounder' suitable for most environments
- Constructed from Cross-Laminated High Density Polyethylene giving them superior tear resistance
- Laminated adhesive label with a seal down Security Flap. Self laminating to protect printed information
- Each Test Tag has a unique number to aid with record keeping.
- UV Stable
- Supplied in re-sealable packets of 100 with permanent marking pen

### HEAVY DUTY

- Adhesive label
- Formulated to withstand Hostile Environments
- 35mm x 110mm. Constructed from 350 Micron PVC and coated with EXTRA STRONG adhesive for superior durability
- Each Test Tag has a unique number to aid with record keeping
- UV Stable
- Supplied in re-sealable packets of 100 with Permanent Marking Pen
- Space for – Tested By, Plant/Item No., Licence No., Test Date, Next Test Due
- Ideal for Factory Environments & Construction Sites.

All Tags are manufactured to AS/NZS 3760 & AS/NZS 3012.

Customised tags are also available. Add your company logo, registration number, barcode, etc. Contact customer services for details – SEE PAGE 238 FOR CUSTOM TAG ORDER FORM



CAT NO.	TAG STYLE	COLOUR	PACK SIZE
TNTTBK	MEDIUM DUTY	BLACK	100
TNTTBKHD	HEAVY DUTY	BLACK	100
TNTTBL	MEDIUM DUTY	BLUE	100
TNTTBLHD	HEAVY DUTY	BLUE	100
TNTTBU	MEDIUM DUTY	BURGUNDY	100
TNTTBUHD	HEAVY DUTY	BURGUNDY	100
TNTTGN	MEDIUM DUTY	GREEN	100
TNTTGNHD	HEAVY DUTY	GREEN	100
TNTTGY	MEDIUM DUTY	GREY	100
TNTTGYHD	HEAVY DUTY	GREY	100
TNTTMIX	MEDIUM DUTY	MIXED	100
TNTTMIXHD	HEAVY DUTY	MIXED	100
TNTTOR	MEDIUM DUTY	ORANGE	100
TNTTORHD	HEAVY DUTY	ORANGE	100
TNTTRD	MEDIUM DUTY	RED	100
TNTTRDHD	HEAVY DUTY	RED	100
TNTTWH	MEDIUM DUTY	WHITE	100
TNTTWHHD	HEAVY DUTY	WHITE	100
TNTTYL	MEDIUM DUTY	YELLOW	100
TNTTYLH	HEAVY DUTY	YELLOW	100
TNTTREMOVER	TEST TAG REMOVAL TOOL	BLACK	1
TNTTLOG	TEST TAG LOG BOOK	-	1

## TECHLUBE CABLE LUBRICANT

This is a pourable, low viscosity water based polymer lubricant designed for friction reduction in cable pulling installations of both fibre optic and light Copper cable, underground systems. This lubricant is slow drying, with a stringy consistency which coats the cable and duct evenly and remains on the surfaces throughout the installation. It is bio-degradable, worker friendly and environmentally responsible.

CAT NO.	DESCRIPTION
TLFO20	20L TECHLUBE FIBRE OPTIC CABLE LUBRICANT



## TECHLUBE HEAVY DUTY CABLE LUBRICANT

Heavy duty, high performance water-based lubricant for heavy cables and difficult pulls. It provides superior friction reduction between cable and all forms of conduit, including concrete duct. Techlube HD dries slowly and leaves a very small amount of residue. Where large quantities of lubricant are needed, Techlube HD is pumpable. It is bio-degradable, worker friendly and environmentally responsible. It has high and low temperature stability, compatibility with cable jacket materials, non-flammable, pleasant odour.

CAT NO.	DESCRIPTION
TLHD20	20L TECHLUBE HEAVY DUTY CABLE PULLING LUBE



## TECHLUBE HEAVY DUTY PRE-LUBE CABLE LUBRICANT

PRE-LUBRICATING 2L BAG OF HEAVY DUTY TECHLUBE.

### APPLICATION

The opened Prelube Bag will deposit lubricant inside the conduit as it is being pulled through by a winch rope. THE CABLE SHOULD ALSO BE LUBRICATED WITH TECHLUBE® HD DIRECTLY AS IT ENTERS THE CONDUIT.

CAT NO.	DESCRIPTION
TLHDPLB	2L TECHLUBE HEAVY DUTY PRELUBE BAG



## TECHLUBE PHD CABLE LUBRICANT

Pourable, high performance water-based cable lubricant for lighter cable installations. It provides superior friction reduction between cable and all forms of conduit and dries slowly to form a thin friction reducing film which retains slip. Where large quantities of lubricant are needed Techlube PHD is pumpable. It is biodegradable, worker friendly and environmentally responsible.

CAT NO.	DESCRIPTION
TLPDH20	20L TECHLUBE PHD CABLE PULLING LUBE



## CLEANING SOLVENT

Solvent for surface preparation of bonding area. It cleans tools and equipment including motors, conductors, switchgear and generators and is fully compatible with all components. PF solvent is user friendly, environmentally responsible, 100% stable and non-ozone depleting.

CAT NO.	DESCRIPTION
PF1LTR	PF CLEANING SOLVENT 1LTR BOTTLE



## CLEANING SOLVENT WIPES

Solvent wipes for surface preparation of bonding area. It cleans tools and equipment including motors, conductors, switchgear and generators leaving no residue or fibres and is fully compatible with all components. PF solvent is user friendly, environmentally responsible, 100% stable and non-ozone depleting.

CAT NO.	DESCRIPTION
PF250	PF CLEANING SOLVENT WIPES (250PK)



## FIBRE OPTIC CLEANING SOLVENT WIPES

d'Gel is a high performance cleaner of cables, tools and equipment. It was specifically developed for the safe and easy removal of petroleum, polyethylene and silicone based gels from filled Copper and fibre optic communication cables.

d'Gel wipes remove oils, soils, gels and cable blocking compounds without removing ID inks or leaving residue and fibres. It is alcohol and halogen free, low odour, non toxic, equally effective with copper and fibre cables, 100% stable, environmentally responsible, non-ozone depleting and user friendly.

CAT NO.	DESCRIPTION
DGELBW150	SOLVENT BUCKET (150) WIPES – FIBRE



## ANTI-BACTERIAL HAND CLEANING WIPES

Heavy duty antibacterial hand cleaning wipes allow safe and effective waterless hand cleaning in the field. Removes oils, greases, combustion and tar residues.

Tested and proven against Weil's Disease and E-Coli. Anti Bac is a double-sided smooth/abrasive wipe with a highly effective foaming cleaning solution. Contains skin rehydrant to prevent dryness.

CAT NO.	DESCRIPTION
PFANTIBAC	ANTI-BAC HAND CLEANING WIPES x 100



## CABLE COVER

TransNet Cable cover is manufactured in New Zealand from recycled High Density Polyethylene (HDPE). There are various sizes and strengths available off the shelf with some special manufacture sizes also available. Cable Cover is designed to protect the cables/pipes it is covering, we have two ranges available, one that complies with the Australia/New Zealand Standard AS/NZ4702-2000 (Cat No. begins with CCASNZ) and the 3mm & 5mm thick range that does not comply. The AS/NZ4702-2000 standard is (amongst other things) based primarily on the strength of the cable cover not how thick it is.

### KEY FEATURES

- CCASNZ (compliant with AS/NZ4702-2000 standard)
  - 3mm thick (not compliant)
  - 5mm thick (not compliant)
- Various widths available, standard widths are 100mm, 150mm and 300mm
- Gas and Electricity specific product available
- Rolls are 25m long (custom roll lengths may differ)
- AS/NZ4702-2000 compliant cable cover available ex stock
- Every batch of AS/NZ4702-2000 compliant cable cover is tested throughout the manufacturing process to ensure it consistently complies
- Retains mechanical strength characteristics even in extreme temperatures

### 3MM AND 5MM THICKNESS RANGE – Not Compliant with AS/NZ4702-2000 standard

CAT NO.	DESCRIPTION	LENGTH
CC100X3X25	ROLL 100mm x 3mm	25m
CC100X5X25	ROLL 100mm x 5mm	25m
CC150X3X25	ROLL 150mm x 3mm	25m
CC150X5X2	STRIP 150mm x 5m	2m+
CC150X5X25	ROLL 150mm x 5mm	25m
CC300X5X25	ROLL 300mm x 5mm	25m

\* Additional sizes available on request

+ Pallet lots only

### MADE TO AS/NZ4702-2000 STANDARD REQUIREMENTS

CAT NO.	DESCRIPTION	LENGTH
CCASNZ4702-150X1	STRIP 150mm x AS/NZ4702-2000	1m+
CCASNZ4702-150X25	ROLL 150mm x AS/NZ4702-2000	25m
CCASNZ4702-170X2	STRIP 170mm x AS/NZ4702-2000	2m+
CCASNZ4702-170X25	ROLL 170mm x AS/NZ4702-2000	25m
GPCASNZ4702-150X1	YELLOW GAS PIPE COVER 150mm x AS/NZ4702-2000	1m+
CCASNZ4702 300X25	ROLL 300mm x AS/NZ4702-2000	25m

\* Additional sizes available on request

+ Pallet lots only

There is a list of requirements to adhere to for compliance with this standard but the one that stands out is the penetration protection, all AS/NZ4702-2000 cable cover must pass a penetration test where a specifically designed dart of known weight is dropped from a predetermined height through 125 joules of energy. The cable cover passes the test only when the dart penetrates it by less than 50mm. Confusion is created with the reference to thickness of material, Cable cover to AS/NZ4702-2000 standard does not adhere to a thickness it is determined by strength resulting from the penetration test.



## WARNING STRIP

Warning strip is laid in the ground above the cable after the trench has been partially backfilled. This secondary protection for underground utility cables and pipes is the main use for warning

### KEY FEATURES

- Orange with black text signifies “ELECTRICAL CABLE BELOW”
- White with red text signifies a warning of hazardous area “DANGER KEEP OUT”
- Made from recycled Polyethylene
- Operating temperature -20°C to 120°C
- Designed and manufactured to AS/NZS 2648.1:1995
- Underground marking tape – Non-detectable standard



strip. Another common use is for cordoning off hazardous areas to keep the public safe. Durable yet light weight means this warning strip can stand up to the elements.

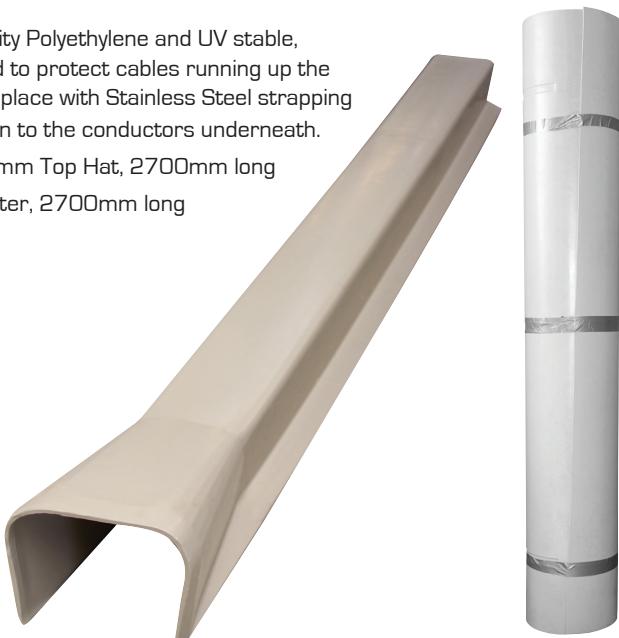


CAT NO.	DESCRIPTION
BTDT100M	DANGER KEEP OUT WARNING STRIP 100m
BTOE100MT	ELECTRICAL WARNING STRIP 100m
BTOE300MT	ELECTRICAL WARNING STRIP 300m
BTOE500MT	ELECTRICAL WARNING STRIP 500m

## POLE COVER

Manufactured from High Density Polyethylene and UV stable, these pole covers are designed to protect cables running up the side of a pole. They are fixed in place with Stainless Steel strapping and offer mechanical protection to the conductors underneath.

- Pole Cover 150mm x 150mm Top Hat, 2700mm long
- Pole Wrap 600mm Diameter, 2700mm long



CAT NO.	DESCRIPTION
PC2700X150X150	MARINO PLASTIC POLE COVER 2700 x 150 x 150mm
PC2700X600DIA	WHITE PLASTIC POLE WRAP 2700 x 600mm DIA

# HEATSHRINK PRODUCTS

RAYCHEM HEATSHRINK MOULDED ACCESSORIES	PAGE
Break Out Boots – Heatshrinkable Cable Breakouts	136
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RAYCHEM HEATSHRINK TUBING	PAGE
EZI Shrink – Thin Wall General Purpose Tubing Heatshrink	138
RNF100 – General Purpose Low Voltage Heatshrink	139
DWP//ATUM – ES1000/ES2000 – Thin Wall Adhesive Lined Heatshrink	140
MWTM – Medium Wall Adhesive Lined Heatshrink	141
WCSM – Heavy Wall Adhesive Lined Heatshrink	142
CRSM – Heatshrinkable Adhesive Lined Wrap-around Repair Sleeve	143
DCPT – Flexible Polyolefin Tubing	144
TFER – Heatshrinkable Teflon Tubing	144
FCSM – Flexible Medium-Wall Tubing	145
CFTS – Heatshrinkable Feedthrough Cable Glands	145
LVBT – Low Voltage Busbar Tape	146
LVIT – Flexible Low Voltage Insulation Tubing	146
LV Heatshrink Multipacks	146



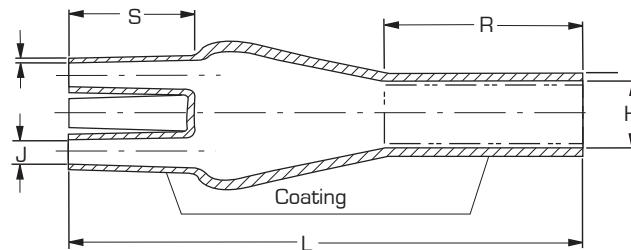
## BREAKOUT BOOTS - HEATSHRINKABLE CABLE BREAKOUTS FOR POWER CABLES

Raychem low voltage breakouts are an easily installed, light weight insulation for sealing the crutches of plastic, paper and rubber insulated cables up to 1kV. Made from semi-rigid cross-linked

halogen free polyolefin, these medium wall breakouts also offer resistance to abrasion, weathering, and atmospheric pollution.

### APPLICATIONS

- For sealing and insulating multi-core cables
- Resistant to corrosion and decay
- Waterproof
- IP68
- Inner adhesive wall
- UV Resistant
- Sealant lined



CAT NO.	NUMBER OF CORES	CONDUCTOR SIZE mm <sup>2</sup>	INSIDE DIAMETER (D) mm				LENGTH mm		
			(H) MIN A	MAX B	(J) MIN A	MAX B	(L) B +/-10%	(R) B +/-10%	(S) B +/-10%
302K333/S	2	4-25	28	9.2	15	4.1	90	-	25
302K224/S	2	35-150	48	32	22	7	172	-	70
302K466/S	2	185-300	86	42	40	17	200	-	75
402W533/S	3	4-35	38	13	16	4.2	103	45	28
402W516/S	3	50-150	63	22	26	9	180	85	40
402W526/S	3	185-300	95	28	44	13	205	90	45
402W248/S	3	400	115	45	52	22	240	100	60
402W439/S	3	630	170	60	60	30	252	90	66
502K033/S	4	4-35	45	16.5	14	3.4	98	71	25
502K046/S	4	35-70	45	19	20	7	165	75	40
502K016/S	4	70-150	75	25	25	9	217	100	44
502K026/S	4	185-300	100	31	40	13.5	223	103	51
603W035/S	4 + 1	16-185	68	26	30*	7*	182	75	40

\*One of 5 outlets dim = 20/6

#### Note:

1. Dimensions in millimeters  
A = as supplied

2. Recommended application range is from 20% above recovered dia to 20% below expanded dia  
B = after heating

## END CAPS - HEATSHRINKABLE CABLE END CAPS

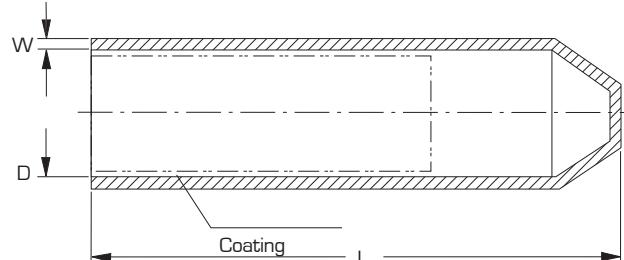
Raychem Cable Caps shrink when heated to tightly fit a range of cable sizes and constructions. At the same time a special sealant also melts and flows under the shrinking action, gripping the cable and ensuring a high-integrity moisture seal.

Our advances in materials science ensure that these crosslinked halogen-free polymer products also provide high quality electrical insulation while at the same time resisting abrasion, weathering, and chemical attack.



### FEATURES

- Environmental sealing of all cable types
- Resistant to corrosion and decay
- Caps for pressurised and live sealing are available
- Operating temperature range -40°C to 120°C
- Inner adhesive wall
- Sealant lined



CAT NO.	APPLICATION RANGE mm	INSIDE DIAMETER [D] mm		LENGTH [L] mm	WALL THICKNESS [W] mm
		MIN A	MAX B		
102L011-R05/S	4.0-8.0	10	4	38	2.0
102L022/S	8.0-17.0	20	7.5	55	2.8
102L033/S	15.0-30.0	35	15	90	3.2
102L044/S	30.0-45.0	55	25	143	3.9
102L048/S	45.0-65.0	75	32	150	3.3
102L055/S	65.0-95.0	100	45	162	3.8
102L066/S	95.0-115.0	120	70	145	3.8

**Note:** A = as supplied, B = after heating

## GURO-CEC - PUSH ON SILICONE CABLE END CAPS

### FEATURES

- Made from Silicone Rubber
- Used to protect cable ends from humidity during storage
- High elasticity & toughness against crack propagation
- Weatherproof
- UV resistant
- Range taking



CAT NO.	APPLICATION RANGE mm	CABLE CROSS SECTION mm <sup>2</sup>	
		mm <sup>2</sup>	mm <sup>2</sup>
GURO-CEC-20/26	20-26	4x10-5x16	
GURO-CEC-24/34	24-34	5x16-4x35	
GURO-CEC-30/38	30-38	4x35-4x70	
GURO-CEC-38/48	38-48	4x70-4x120	
GURO-CEC-44/55	44-55	4x120-4x185	

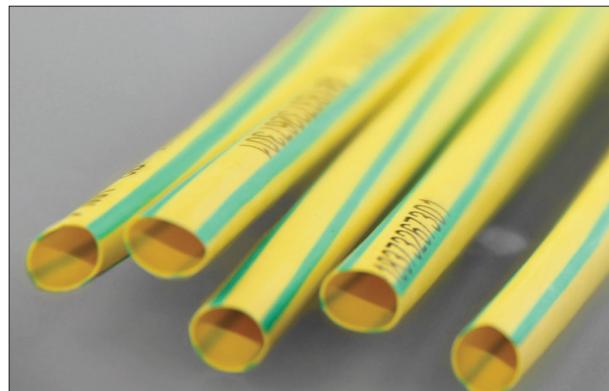
**Note:** No heat required, simply push on

## EZISHRINK - THIN WALL TUBING HEATSHRINK

EziShrink Thin Wall Tubing is a high quality, heatshrinkable product for a variety of uses. Made from Flame Retardant Polyolefin Material, EziShrink has excellent physical, chemical and electrical properties.

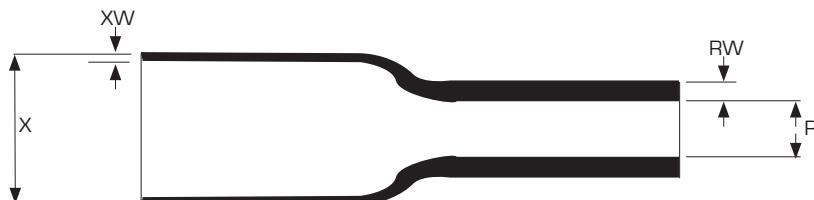
### TECHNICAL DATA

- Rated Voltage: 600 Volts
- Dielectric Strength: 15kV/mm
- Tensile Strength: 10.4Mpa
- Available in 1200mm stick lengths
- Shrink Ration 2:1



### OPERATIONAL PARAMETERS

- Operating Temperatures: -55°C up to 125°C
- Shrink Start Temperature: 70°C
- Longitudinal Shrinkage: Less than 8%
- UL recognised to standard 224



## COLOUR CODES

### IN STOCK

	BK = BLACK
	BU = BLUE
	YO = YELLOW

	G/Y = GREEN/YELLOW
	GN = GREEN
	RD = RED

### INDENT ONLY

	VT = VIOLET
	BR = BROWN
	WH = WHITE

### CATALOGUE NUMBER EXAMPLE

EZHSBU(BLUE)6/3

CAT NO.	EXPANDED DIA. AS SUPPLIED (X) mm	EXPANDED WALL THICKNESS (XW) mm	RECOVERED DIA. (R) mm	RECOVERED WALL THICKNESS (RW) mm	APPLICATION RANGE DIA. mm	STANDARD LENGTH mm
EZHScolourcode1.5/0.8	1.5	0.15	0.8	0.28	0.9-1.4	1200
EZHScolourcode2/1	2	0.18	1	0.35	1.1-1.8	1200
EZHScolourcode3/1.5	3	0.18	1.5	0.40	1.7-2.8	1200
EZHScolourcode6/3	6	0.28	3	0.55	3.2-5.5	1200
EZHS-colourcode10/5	10	0.30	5	0.60	5.5-9	1200
EZHScolourcode12/6	12	0.30	6	0.60	6.4-11	1200
EZHScolourcode20/10	20	0.40	10	0.80	11-18	1200
EZHScolourcode25/12	25	0.55	12	0.90	13-23	1200
EZHScolourcode40/20	40	0.55	20	1.00	22-36	1200
EZHScolourcode50/25	50	0.55	25	1.00	28-45	1200
EZHScolourcode80/40	80	0.70	40	1.46	44-70	1200

## RNF100 - GENERAL PURPOSE LOW VOLTAGE HEATSHRINK

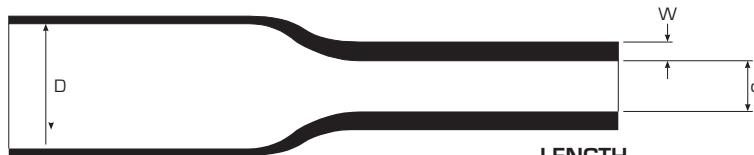
A premium grade flame-retardant polyolefin heatshrinkable tubing. Outstanding all round performance, good chemical and solvent resistance, flexible. Used extensively in military applications for lightweight harness jackets, insulation, colour coding, identification, protection against fluids and provides mechanical strength.

### TECHNICAL DATA

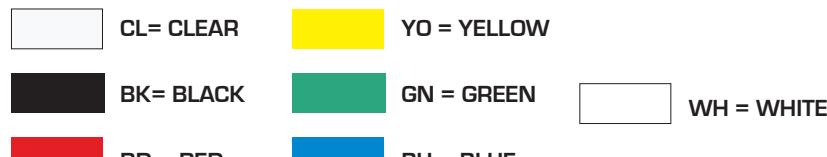
- Excellent UV resistance
- Flame retardant (Black and colours only)
- Operating temperature -55°C to 135°C
- Minimum shrink temperature 95°C
- Minimum full recovery temperature 121°C
- Shrink ratio 2:1
- Available in 1200mm lengths or spools

### APPLICATIONS

- Electrical insulation
- Wire strain relief
- Colour coding and identification
- Light weight and harness jacket



**LENGTH**  
STK = Standard stick  
SP = Spool



### EXAMPLE CATALOGUE NUMBER

RNF-100-3/64-BK [BLACK] -STK(1200mm)  
(Standard length-1200mm)

CAT NO.	INSIDE DIAMETER (D) MIN mm A	MAX mm B	WALL THICKNESS (W) NOM RECOVERED mm	STANDARD LENGTH mm	SPool LENGTH m
RNF-100-3/64-colourcode-length	1.2	0.6	0.45	1200	300
RNF-100-1/16-colourcode-length	1.6	0.8	0.45	1200	300
RNF-100-3/32-colourcode-length	2.4	1.2	0.50	1200	150
RNF-100-1/8-colourcode-length	3.2	1.6	0.50	1200	150
RNF-100-3/16-colourcode-length	4.8	2.4	0.50	1200	150
RNF-100-1/4-colourcode-length	6.4	3.2	0.65	1200	75
RNF-100-3/8-colourcode-length	9.5	4.8	0.65	1200	121
RNF100-1/2-colourcode-length	12.7	6.4	0.65	1200	90
RNF-100-3/4-colourcode-length	19.0	9.5	0.75	1200	60
RNF-100-1-colourcode-length	25.4	12.7	0.90	1200	60
RNF-100-1-1/2-colourcode-length	38.0	19.0	1.00	1200	91
RNF-100-2-colourcode-length	51.0	25.4	1.15	1200	30
RNF-100-3-colourcode-length	76.0	38.0	1.25	1200	15
RNF-100-4-colourcode-length	102.0	51.0	1.40	1200	15
RNF-100-5-colourcode-length	127.0	63.5	1.52	1200	30

A = as supplied, B = after heating

### APPROVALS

*UL File E35586	Def Stan 59-97 Type 2b
*CSA LR31929	MIL-DTL-23053/5 Class 1 [colours], [Clear] [exclude 1-3/4]
VG 95343 Part 5 Type A and B	BS 4G-198PART 3 11B
VDE 0341-Pt9005	

## DWP/ATUM - ES1000/ES2000 - THIN WALL HEATSHRINK

Semi-flexible, general purpose adhesive-lined, moisture proof heatshrinkable tubing, with high shrink ratio. Designed to provide moisture proof sealing to a wide range of substrates such as electrical wire splices, cable jackets, wire breakouts and electrical components.

### TECHNICAL DATA - ES1000/ES2000

- Operating Temperature -40°C to 135°C
- Minimum shrink temperature 110°C
- Maximum full recovery temperature 135°C
- Shrink ratio 4:1
- ES1000 Clear, ES2000 Black
- Adhesive lined

### TECHNICAL DATA - DWP/ATUM

- Operating Temperature -55°C to 110°C
- Minimum shrink temperature 80°C
- Minimum full recovery temperature 110°C
- Shrink ratio 3:1
- Black (clear ATUM 40/13 only)
- Adhesive lined

### APPLICATIONS

- Environmental sealing
- Cable insulation
- Connector insulation for control wiring



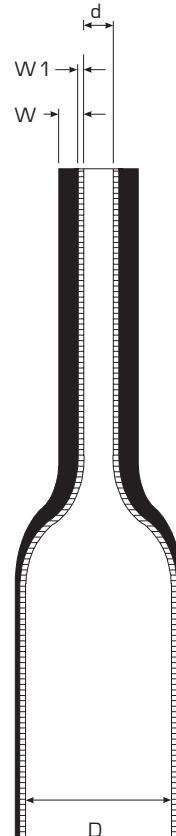
### APPROVALS

- UL E85381 (Black only)
- MIL-DTL-23053/4 Class 3 (Black only)
- 3:1 Shrink ratio only (excludes sizes 9/3,19/6)
- VG 95343 (clear 3:1 only)
- VDE 0341/Pt 9012 (clear 3:1 only)

### 3:1 SHRINK RATIO - DWP/ATUM

CAT NO.	INSIDE DIAMETER (D) mm		WALL THICKNESS (W) RECOVERED (NOM) mm	COLOUR	STANDARD LENGTH mm
	MIN A	B			
DWP-125-1/8-0-STK	3.2	0.6	1.02-0.5	BLACK	1200
DWP-125-3/16-0-STK	4.8	1.5	1.40-0.5	BLACK	1200
DWP-125-1/4-0-STK	6.4	2.0	1.45-0.5	BLACK	1200
DWP-125-3/8-0-STK	9.5	3.0	1.65-0.6	BLACK	1200
DWP-125-1/2-0-STK	12.7	4.0	1.78-0.7	BLACK	1200
DWP-125-3/4-0-STK	19.0	6.0	1.90-0.8	BLACK	1200
DWP-125-1-0-STK	25.4	8.0	2.50-1.0	BLACK	1200
DWP-125-1-1/2-0-STK	32.0	11	2.50-1.0	BLACK	1200
ATUM-3/1-0-STK	3	1	1.00-0.5	BLACK	1200
ATUM-6/2-0-STK	6	2	1.00-0.5	BLACK	1200
ATUM-9/3-0-STK	9	3	1.40-0.6	BLACK	1200
ATUM-12/4-0-STK	12	4	1.75-0.7	BLACK	1200
ATUM-19/6-0-STK	19	6	2.25-0.8	BLACK	1200
ATUM-24/8-0-STK	24	8	2.50-1.0	BLACK	1200
ATUM-40/13-X-STK	40	13	2.50-1.0	CLEAR	1200
ATUM-52/13-0-STK	52	13	2.54-1.0	BLACK	1200

A = as supplied, B = after heating



## 4:1 SHRINK RATIO - ES1000/ES2000

CAT NO.	INSIDE DIAMETER (D) mm		WALL THICKNESS (W) mm	COLOUR	STANDARD LENGTH mm
	MIN A	MAX B	RECOVERED (NOM)		
ES1000-NO.2-B7-X-STK	7.4	1.6	1.52		
ES1000-NO.3-B7-X-STK	10.8	2.4	1.91	CLEAR	1200
ES1000-NO.4-B7-X-STK	17.7	4.4	2.41		
ES2000-NO.2-B8-0-STK	7.4	1.6	1.52		
ES2000-NO.3-B8-0-STK	10.8	2.4	1.91	BLACK	1200

A = as supplied, B = after heating

## MWTM - MEDIUM WALL HEATSHRINK

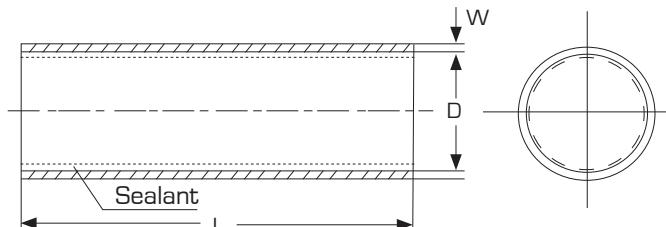
Raychem MWTM tubing is fast and easily installed, and has proven its long term reliability in harsh climatic conditions and polluted environments.

### TECHNICAL DATA

- Operating Temperature range -40°C to 120°C
- Shrink ratio 3:1
- Adhesive lined
- UV resistant
- Voltage class 1kV
- Sealant lined
- Halogen free

### APPLICATIONS

- Fast cost effective way to waterproof joints
- Low voltage underground jointing and terminations
- Sealing of lugs and glands
- Resistant to chemicals, corrosion and decay



CAT NO.	APPLICATION RANGE DIA. mm	INSIDE DIAMETER mm (D)		WALL THICKNESS mm (W)		STANDARD LENGTH (L) mm
		MIN A	MAX B	MIN A	MAX B	
MWTM-10/3-1200/S	3.5-9.0	10	3	0.3	1.0	1200
MWTM-16/5-1200/S	5.5-14.5	16	5	0.3	1.4	1200
MWTM-25/8-1200/S	9.0-22.5	25	8	0.4	2.0	1200
MWTM-35/12-1200/S	13.0-31.5	35	12	0.4	2.0	1200
MWTM-50/16-1200/S	18-45.0	50	16	0.5	2.0	1200
MWTM-63/19-1200/S	21.0-57.0	63	19	0.6	2.4	1200
MWTM-75/22-1200/S	24.0-68.0	75	22	0.6	2.7	1200
MWTM-85/25-1200/S	28.0-77.0	85	25	0.6	2.8	1200
MWTM-95/29-1200/S	32.0-86.0	95	29	0.7	3.1	1200
MWTM-115/34-1200/S	37.0-104.0	115	34	0.7	3.1	1200
MWTM-140/42-1200/S	46.0-126.0	140	42	0.7	3.1	1200
MWTM-160/50-1200/S	55.0-144.0	160	50	0.7	3.2	1200

A = as supplied, B = after heating

## WCSM - HEAVY WALL HEATSHRINK

WCSM is a heatshrinkable heavy-wall tubing for insulating and sealing power cables and accessories. WCSM material is halogen free and UV resistant. WCSM tubing's mechanical strength enables immediate back-filling of cable trenches after jointing. Widely used to insulate, protect and seal power cable joints, accessories and electrical connections.

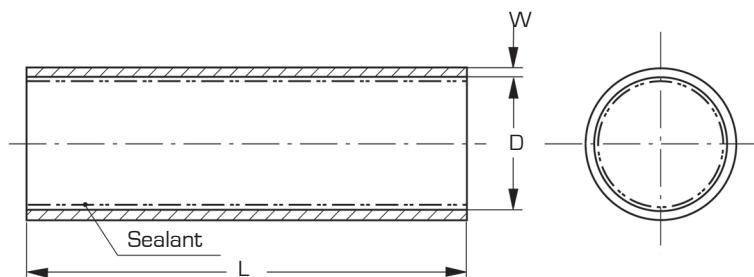
### TECHNICAL DATA

- Operating Temperature range -40°C to 120°C
- Shrink ratio 4:1
- Adhesive wall
- Voltage class 1kV
- Black Colour
- Other lengths available on request.
- All lengths subject to standard cutting tolerances
- Sealant lined
- Halogen free



### APPLICATIONS

- Fast cost effective way to waterproof joints
- Low voltage underground jointing and terminations
- Sealing of lugs and glands
- Resistant to chemicals, corrosion and decay



CAT NO.	APPLICATION RANGE DIAMETER mm	INSIDE DIAMETER (D) mm		WALL THICKNESS (W) mm		STANDARD LENGTH (L) mm
		MIN A	MAX B	NOM A	MAX B	
WCSM-12/3-1200/S	3.5-10	12	3	0.8	2	1200
WCSM-16/4-1200/S	4.5-14	16	4	0.9	2.4	1200
WCSM-24/6-1200/S	6.5-22	24	6	1	2.7	1200
WCSM-34/8-1200/S	9-31	33	8	1.3	4	1200
WCSM-48/12-1200/S	13-44	48	12	1.5	4.5	1200
WCSM-56/16-1200/S	17.5-50	56	16	1.5	4.4	1200
WCSM-70/20-1200/S	22-63	70	20	1.4	4.4	1200
WCSM-90/25-1200/S	27-81	90	25	1.3	4.3	1200
WCSM-110/30-1200/S	33-100	110	30	1.2	4.3	1200
WCSM-130/35-1200/S	38-118	130	35	1.2	4.3	1200
WCSM-160/50-1200/S	55-144	160	50	1	4.3	1200
WCSM-180/50-1200/S	55-162	180	50	1	4.3	1200
WCSM-250/65-2000/S	55-180	200	50	n.a.	4.3	2000

### Note:

1. Dimensions in millimeters  
A = as supplied

2. Max. Longitudinal change after free recovery: +5%/-10%  
B = after heating

## CRSM - HEATSHRINKABLE WRAP-AROUND REPAIR SLEEVE

CRSM wrap-arounds are a fast and permanent cable repair and sealing system. The repair sleeve is quickly fitted in place by means of its rail and channel closure.

### TECHNICAL DATA

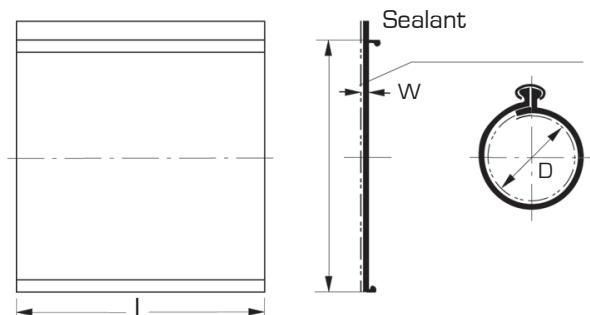
- Operating temperature range -40°C to 120°C
- Shrink ratio 3:1
- Sealant lined
- Halogen free

### APPLICATIONS

- Repair cable sheath damage without cutting cable
- Underground jointing (and in tight areas)
- Sealing cable glands
- Abrasion corrosion and decay resistant
- IP68
- 100% waterproof
- Inner adhesive wall
- UV resistant
- Voltage class 1kV

Labour-saving installation. Fitting and sealing all in one step. Abrasion and corrosion resistant. Each size covers a range of cable sizes.

Raychem's distinctive closure system, which incorporates a stainless steel channel slid over rails on the sleeve, keeps the wrap-around in place during installation but can be easily removed when the adhesive has set.



CAT NO.	APPLICATION RANGE DIAMETER mm	INSIDE DIA. (D) mm MIN A	INSIDE DIA. (D) mm MAX B	WALL THICKNESS (W) mm MIN A	WALL THICKNESS (W) mm MAX B	LENGTH (L) mm
CRSM-34/10-300	11-21	35	9	0.3	2.4	
CRSM-53/13-300	17-32	54	15	0.3	2.0	
CRSM-84/20-300	24-50	86	21	0.3	2.0	
CRSM-107-29-300	31-65	108	27	0.3	2.0	300
CRSM-143-36-300	33-86	144	28	0.3	1.8	
CRSM-198-55-300	56-120	203	50	0.3	2.1	
CRSM-250-98-300	103-150	257	91	0.4	1.7	
CRSM-34-10-500	11-21	35	9	0.3	2.4	
CRSM-53-13-500	17-32	54	15	0.3	2.0	
CRSM-107-29-500	31-65	108	27	0.3	2.0	500
CRSM-143-36-500	33-86	144	28	0.3	1.8	
CRSM-198-55-500	56-120	203	50	0.3	2.1	
CRSM-34/10-1500	11-21	35	9	0.3	2.4	
CRSM-53/13-1500	17-32	54	15	0.3	2.0	
CRSM-84/20-1500	24-50	86	21	0.3	2.0	1500
CRSM-107-29-1500	31-65	108	27	0.3	2.0	
CRSM-143-36-1500	33-86	144	28	0.3	1.8	
CRSM-198-55-1500	56-120	203	50	0.3	2.1	
CRSM-250-98-1500	103-150	257	91	0.4	1.7	

\* Other lengths available on request

**Note:**

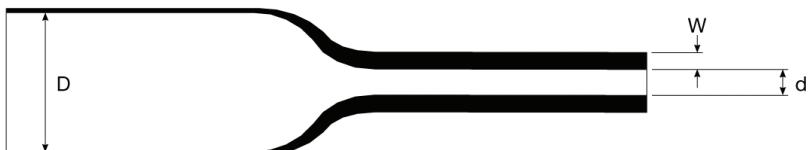
1. Dimensions in millimeters  
A = as supplied

2. Max. Longitudinal change after free recovery: 0 - +10%  
B = after heating

## DCPT - FLEXIBLE POLYOLEFIN TUBING

### APPLICATIONS

- 2:1 Shrink ratio
- Earth Colours (green/yellow) for instant identification
- Flame retardant
- Flexibility: able to conform to irregular shapes
- Excellent physical, chemical and electrical properties
- Minimum shrink temperature: 95°C
- Minimum full recovery temperature: 120°C
- Operating temp range (-55°C to 135°C)
- Standard length 1.2m



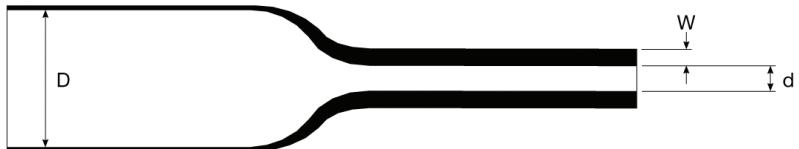
CAT NO.	INSIDE DIAMETER MIN EXPANDED mm [D]	MAX RECOVERED mm [d]	WALL THICKNESS FULLY RECOVERED [W] mm	LENGTH mm
DCPT-3/1.5-45-STK	3.0	1.5	0.51	1200
DCPT-6/3-45-STK	6.0	3.0	0.58	1200
DCPT-10/5-45-STK	10.0	5.0	0.64	1200
DCPT-19/9-45-STK	19.0	9.0	0.76	1200
DCPT-26/13-45-STK	26.0	13.0	0.89	1200
DCPT-38/19-45-STK	38.0	19.0	1.00	1200

**Note:** D = as supplied d = after heating

## TFER - HEATSHRINKABLE TEFLON TUBING

### APPLICATIONS

- Operating temperature -67°C to 250°C
- Installation temp minimum 340°C
- Chemically inert
- Modified Teflon tubing
- Standard length 1.2m
- Colour: Clear



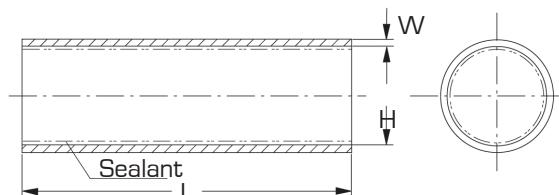
CAT NO.	INSIDE DIAMETER MIN EXPANDED mm [D]	MAX RECOVERED mm [d]	WALL THICKNESS FULLY RECOVERED [W] mm	LENGTH mm
TFER-5/64-X-STK	2.0	0.6	0.23	1200
TFER-1/8-X-STK	3.2	1.0	0.25	1200
TFER-3/16-X-STK	4.8	2.47	0.25	1200
TFER-1/4-X-STK	6.4	1.6	0.30	1200
TFER-3/8-X-XTK	4.4	0.30	0.30	1200
TFER-1/2-X-STK	12.7	3.7	0.38	1200

**Note:** D = as supplied d = after heating

## FCSM - FLEXIBLE MEDIUM WALL HEATSHRINK TUBING

### APPLICATIONS

- Electrical insulation
- Indoor or outdoor busbar insulation
- Corrosion protection
- Operating temp range -40°C to 120°C
- 15m roll size Shrink ratio 3:1
- Flame retardant
- Flexible



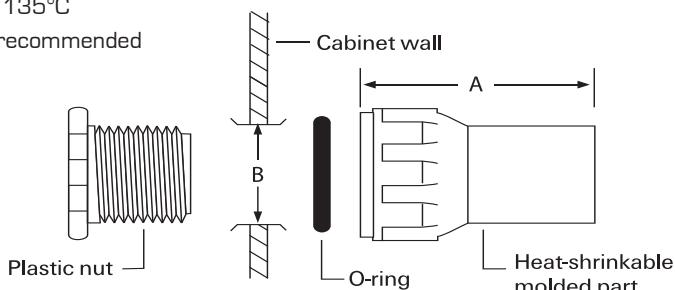
CAT NO.	APPLICATION RANGE mm	INSIDE DIA (H) mm MIN MAX	WALL THICKNESS FULL RECOVERY (W) mm	LENGTH (L) m
FCSM-19/6-A/U-4	6.5-17.0	19	6	2.4
FCSM-28/9-A/U-4	10.0-25.0	28	9	3.2
FCSM-51/16-A/U-4	17.5-46.0	51	16	4.1

**Note:** A = as supplied B = after heating

## CFTS - HEATSHRINK FEED THROUGH CABLE GLANDS

### APPLICATIONS

- Sealing of bulkhead, equipment box and panel penetration
- Provides environmental seal and strain relief via heat activated adhesives
- Elastomeric 'O' ring with each part to accommodate irregularities on panel
- Operating temperatures -55°C to 135°C
- Cabinet wall thickness of 5mm is recommended



CAT NO.	CABLE DIAMETER mm	LENGTH (A) mm	RECOMMENDED HOLE SIZE (B) mm
CFTS-1	5-10	70	25
CFTS-2	6-17	70	25
CFTS-3	14-25	95	35
CFTS-4	20-37	114	51
CFTS-5	37-61	178	89

## LVBT – LOW VOLTAGE BUSBAR TAPE

Tape is adhesive coated and when heated will shrink and seal to itself.

### APPLICATIONS

- Designed for areas of restricted access where tubing cannot be easily used
- LVBT is a general purpose, flexible, heatshrinkable insulating tape (adhesive coated)
- Colour: Black
- 1kV Voltage rating



CAT NO.	LENGTH m	WIDTH mm
LVBT-1-R	8	25
LVBT-2-R	8	50
LVBT-4-R	8	100

## LVIT – FLEXIBLE LOW VOLTAGE INSULATION TUBING

### APPLICATIONS

- Electrical insulation
- Indoor or outdoor busbar insulation
- Corrosion protection
- Operating temperature -40°C to 150°C
- Flame retardant



CAT NO.	APPLICATION RANGE mm	WALL THICKNESS mm	RECTANGULAR BUSBAR APP. RANGE mm	SPool SIZE m
LVIT-30/10-A/U-4	28-12	1.5	40-18	60
LVIT-75/25-A/U-4	70-28	1.5	100-43	30
LVIT-150/50-A/U-4	145-55	1.5	200-86	30

## RAYCHEM LV HEATSHRINK MULTIPACKS

### RMP Packs

- Contain various colours & sizes of Raychem RNF Heatshrink
- Premium grade, Mil Spec compliant
- Perfect for identification, colour coding, light harness jackets and light protection against abrasion.
- AMS-DTL-23053/5 class 2

### RDWP Packs

- Premium grade polyolefin heatshrinkable tubing.
- Good chemical and solvent resistance.
- Adhesive lined for protection against moisture ingress
- Flexible
- AMS-DTL-23053/4 class 3 (Black only)



CAT NO.	TYPE	SIZES OD	COLOURS
RMP-3S	RNF – THIN WALL COLOURED	1/8", 3/16", 1/4" 3/8", 1/2", 3/4"	RED, WHITE, BLUE, BLACK, GREEN
RMP-3L			
RDWP-3S	THIN WALL, ADHESIVE LINED	6, 7.4, 9, 10.8, 12mm	BLACK, CLEAR
RDWP-3L		10.8, 12, 17.4, 19, 24mm	

# LV JOINTS & TERMINATIONS UP TO 1KV

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## GELPORTS

Submersible connectors for underground reticulation. The GelPort connection system represents a revolutionary product for secondary connectors. Strip the cable and push it into the gel-filled cable port. The cable is encapsulated in PowerGel and instantly sealed. GelPort's are corrosion resistant, with an impact resistant housing they can withstand rough installations. The gel-filled cable entry ports provide a reliable cable seal. PowerGel sealing gel was specifically developed for the electrical power industry. It is hydrophobic and provides an excellent moisture seal over a wide range of operating temperatures (-40°C to 95°C).



## GELPORT TESTING

### TESTING

Complete Unit

### TEST CONDITION

ANSI C 119.1, 2002 Report: EDR-5379, EDR-5409, EDR-5427

Connector

ANSI C119.4, 2003, Report: 502-47264, 502-47302, 502-47308

Chemical Resistance

ASTM D543 to liquids: Sulphuric Acid, Sodium Sulphate, Sodium Chloride, Sodium Hydroxide, Ethylene Glycol

UV Resistance

ASTM G-53-95, ASTM D-638-95

CAT NO.	BACK COVER COLOUR	NUMBER OF CABLE PORTS	CABLE SIZE mm <sup>2</sup>	LENGTH	DIMENSIONS mm	
					WIDTH	HEIGHT
5-1899241-7	CLEAR	3	16-240	117	97	89
5-1899241-8	CLEAR	4	16-240	149	97	89
5-1899241-9	CLEAR	5	16-240	180	97	89
6-1899241-0	CLEAR	6	16-240	212	97	89
6-1899241-1	CLEAR	8	16-240	276	97	89
7-1201146-7	BLACK	4	6-150	149	97	89
GPRT-300-3P	CLEAR	3	2x185-300, 1x16-185	128	90	105

## RAYGEL ENCLOSURES

Raychem RayGel Enclosures offer a state-of-the-art sealed joint for underground, direct-buried and overhead applications. Four sizes for straight and branch joints are available, ranging from single core cables from 10 up to 50mm<sup>2</sup> and for 3 to 5-core cables from 1.5 up to 16mm<sup>2</sup>.

- Housing is made of Polypropylene
- Insulating material is RayGel PowerGel Sealant
- Some Kits include connector blocks or connectors



GELBOX-25 Install Video



RAYGEL-23M Install Video



CAT NO.	CONNECTOR INCLUDED	MAIN mm <sup>2</sup>		TAP mm <sup>2</sup> MAX	LENGTH	DIMENSIONS mm	
		MIN	MAX	MAX		WIDTH	HEIGHT
RAYGEL-12	NO	1x10	1x50	1x16	86	46	28
RAYGEL-22-M-5	YES	3x1.5	5x6	-	145	56	36
RAYGEL-23	NO	4x1.5	4x6	4x1.5	145	51	30
RAYGEL-23-M	YES	4x1.5	4x6	-	145	51	30
RAYGEL-24	NO	4x6	4x16	4x2.5	178	70	41
RAYGEL-24-M	YES	4x6	4x16	-	178	70	41
RAYGEL-24-M-5	YES	3x6	5x10	-	178	70	41
GELBOX-25	YES	4x6	4x25	-	261	95	66

## RAYGEL PLUS JOINT KITS

Raychem RayGel Plus Joint Kits offer quick, easy reliable sealed joints for low voltage applications. Enclosures offer a state-of-the-art sealed joint for underground, direct-buried and overhead applications.

- No cutting of main cable
- Housing is made of Halogen free UV resistant Polypropylene
- Insulating material is RayGel PowerGel Sealant
- Some Kits include connector blocks or connectors



CAT NO.	CONNECTOR INCLUDED	CONDUCTOR SIZE mm <sup>2</sup>		DIMENSIONS mm		
		MAIN	TAP	LENGTH	WIDTH	HEIGHT
RAYGEL-PLUS-2	YES	3-5 x 1.5-6	3-5 x 1.5-6	233	78	40
RAYGEL-PLUS-3	YES	3-5 x 6-16	3-5 x 6-16	313	90	47

## CABLE GLANDS FOR RAYGEL ENCLOSURES

Cable Gland set, providing IP68 protection for PowerGel-filled Straight Joints for polymeric cables 0.6/1kV

With the CG set, all RayGel straight joints, become IP68 compliant.

### Kit Contains:

- 2 x Halogen free cable glands according to DIN EN 50262
- 2 x Halogen free inserts for the cable glands
- 2 x Hexagon nuts (locknut), tin plated brass



CAT NO.	CABLE SIZE mm <sup>2</sup>	
	MIN	MAX
RAYGEL-12/23-CG	6	10
RAYGEL-22-CG	7	13
RAYGEL-24-CG	9	17

## GHFC - GEL ENCLOSURES (1000V)

The GHFC gel enclosure range provides a fast and simple method for insulating and environmentally sealing low-voltage cable taps and splices made with gel compression connectors. The enclosure utilises the innovative PowerGel sealing gel to protect the connection from moisture ingress, corrosion and pollution. Simply place the enclosure around the connection and press the enclosure together. It's that easy — no tapes, mastics, tools or mixing are required.

### FEATURES:

- Easy re-entry; Raychem PowerGel peels away easily leaving a clean connection

- Enclosures provide rugged protection; UV, impact and abrasion resistant
- Qualified for temperatures from -40°C to 90°C



CAT NO	CABLE SIZE mm <sup>2</sup>		DIMENSIONS mm		
	MAIN	TAP	LENGTH	WIDTH	HEIGHT
GHFC-1-90	16-35	2.5-10	70	41	27
GHFC-2-90	35-70	2.5-16	108	51	30
GHFC-2.5-90	50-95	16-85	179	70	40
GHFC-3-90	185	95	159	83	49

## MINI WEDGE GEL ENCLOSURE

Quickly and conveniently insulates, seals and protects Mini Wedge connections up to 600V. Can be used both overhead and for direct bury applications underground. In either case it's as simple as snapping the enclosure closed over the connection. The locating tabs ensure the connection remains in the right location if the enclosure is snagged.



\*Mini wedge connector not included

CAT NO.	DESCRIPTION
3-1199125-2	RAYCHEM MINI WEDGE/UDC SNOT BOX

## GELCAP SL - PERFECT FOR STREETLIGHTS

The Gelcap SL Splice Kit provides quick installation, dependable performance and easy re-entry for street lighting connections, among others. Packed with revolutionary PowerGel sealing gel, they offer a superior moisture seal over a wide conductor range.



- Temperature Range [-40°C to 105°C]
- The cap is UV stable, insulating and offers excellent abrasion protection.
- Range Taking Connector 2 x 2.5mm<sup>2</sup>-70mm<sup>2</sup> and 1 x 2.5mm<sup>2</sup>-10mm<sup>2</sup>
- No extra materials or greases are required
- Simple Allen Key fastening (imperial)

CAT NO.	DESCRIPTION
2-1200171-6	RAYCHEM GELCAP TAP 2.5-70/2.5-10mm <sup>2</sup>

## GELWRAPS

Single core GelWrap straight joints are a quick and convenient solution to insulate and seal buried electrical connections rated up to 600V. GelWraps are used around a connection or over a sheath repair. They are robust, compact and built to handle the harsh environments of a direct burial. The gel in the sleeve seals on contact, rails are simply snapped into place and self-latch. Install cable ties to secure in place.



- Moisture resistant
- Abrasion resistant
- Chemical resistant
- Seals over operating temperature ranging from -40°C to 95°C
- Compatible with solid dielectric cable insulations and connector greases
- GelWrap is flexible

CAT NO.	DESCRIPTION	CONDUCTOR SIZE mm <sup>2</sup>	MAX CONNECTOR DIMENSIONS mm	GELWRAP L x D mm
GELWRAP18/4-250	LV GEL LINED WRAP SIZE 18/4mm x 250mm	2.5-95	175 25	250 x 25
GELWRAP33/10-250	LV GEL LINED WRAP SIZE 33/10mm x 250mm	35-240	150 40	250 x 40

\*Connector not included

## GUROSIL-GEL FILLED JUNCTION BOX INCLUDING TERMINAL STRIP

The GUROSIL-Gel filled Junction Box is designed to protect electrical connections from the ingress of water as found in rooms with high humidity effects as well as in outdoor applications. GUROSIL-Gel is a soft-elastic hardening, amber cold casting compound that is based on hydrocarbon resins.

Quick and clean casting is simple with the help of customary caulking guns, so no special tools are required. It is easy to remove, repairable and self-resealing. Electrical connections can be tested and repaired quickly where required, even after installation.

### FEATURES AND BENEFITS

- IP68 proven casting system
- Provides reliable protection against humidity, mechanical shock and vibration
- Quick, easy and clean to install using customary caulking guns
- Soft-elastic, transparent, self-repairing and self-resealing
- Easy to remove (GUROSIL-Gel)
- Halogen, Silicon and Isocyanate free
- Environmentally friendly

### TECHNICAL DATA

- Nominal Voltage: 400V
- Dielectric Strength: >20kV/mm
- Operating Temperature: -40°C to +90°C
- Cable Diameter: 6 x 1mm<sup>2</sup>, 5 x 1.5mm<sup>2</sup> or 4 x 2.5mm<sup>2</sup> per connection
- Cable Entry: 7 x M25 including plug-in seals for cable diameter 4-20mm
- Terminal System: Terminal block 4mm<sup>2</sup>, 5-poles, pluggable
- Enclosure Material: Shock-resistant and flame retardant plastic material
- Enclosure Light grey (RAL 7035), LxWxH: 90 x 90 x 52mm



Easy and clean to install



Durable waterproof connections



JOR-53800

CAT NO.	DESCRIPTION
JOR-53800	JUNCTION BOX, TERMINAL STRIP & GUROSIL-GEL CARTRIDGE INCLUDES MIXER
JOR-53801	GUROSIL-GEL CARTRIDGE INCLUDES MIXER, 250ML

## RESIN FILLED JOINT KITS

### GURO KITS FOR POLYMERIC INSULATED CABLES UP TO 1KV

Designed for use with LV cables, these joint kits consist of an impact resistant, transparent polypropylene snap-to-close design housing, polymer foam for sealing, Guroflex environmentally friendly easy to handle two compound cold casting material and a Helstern Ring Connector.

These joints are easy and quick to assemble, resistant to breaks/cracks due to the elasticity of the compound and mechanically robust due to the nature of the impact resistant polypropylene housing.



GURO MM5 Install Video



CAT NO.	GURO KIT SIZE	MAIN CONDUCTOR SIZE mm <sup>2</sup>	TAP OFF CONDUCTOR SIZE mm <sup>2</sup>
GURO50/70KIT		4 CORE 50-70	
GURO70/150KIT	MM5	4 CORE 70-150	6-70
GURO150/185KIT		4 CORE 150-185	
GUROMM7/240		4 CORE 240	
GUROMM7/3C/95MM		3 CORE 95	6-70
GUROMM7/3C/185MMKIT	MM7	3 CORE 185	
GURO70-150/4-120KIT		4 CORE 70-150	4-120

### GUROFLEX RESIN

GUROFLEX is an environmentally friendly, non-toxic and non-hazardous casting material for 1kV cable joints. It's easy to handle (no special protective measures are required to handle it) and is a cold casting material based on hydrocarbons.

Hydrocarbon resins are generally known for their low water absorption, excellent electrical insulation properties and high elasticity over a wide temperature range without splitting and cracking. Due to its elasticity, it is well-suited to accommodate thermal expansion of insulated cables, thereby preventing tears, breaks and cracks that could permit water ingress. It is an excellent insulating material with water-repellent properties. It covers and adheres to metal components and protects them from corrosion.

GUROFLEX is prepared immediately before casting. The two components are mixed together in a double chamber bag and then the cross-linking process starts. Compared with other resin types, GUROFLEX is easy to process and generates no heat during curing. Furthermore, GUROFLEX is resistant to low temperatures as low as -20°C. Processing is possible at temperatures as low as -10°C.

GUROFLEX is suited for use in all cable joint systems with robust closures up to 1kV. It is qualified according to CENELEC HD 623. It is suitable for filled XLPE, PE, PVC and paper-insulated cables. GUROFLEX is available in double chamber bags and tins.

### TECHNICAL DATA

- Viscosity: Component A 5000 mPa-s  
Component B 5000 mPa-s
- Dielectric Strength: 10kV/mm
- Density: Component A 1.36g/CM3 Component B 0.94g/CM3
- Minimum storage temperature: -20°C
- Minimum installation temperature: -10°C
- Shore hardness A: ~20
- Shelf Life: 2 years at 23°C
- Colour: Green



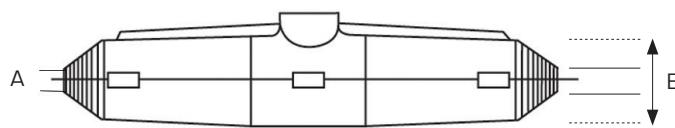
CAT NO.	DESCRIPTION
730032-000	GUROFLEX 2L POLYBAGS
GUROFLEX MV 6.3 TIN	GUROFLEX LV 6.3LTR PAIL

## PXE – LV RESIN STRAIGHT JOINT KITS

PXE Resin filled joints for armoured and unarmoured cables up to 1kV. The PXE range of LV Resin Joints cater for most common types and sizes of power distribution and control cables. The straight arrangements accommodate most conductor connection methods.

### FEATURES

- Joint Insulation, sealing and mechanical protection provided by proven two-part polyurethane resin
- Supplied in convenient foil packs
- Range-taking joint kits with few components for quick and simple installation
- Clear, robust, snap-together joint shells for easy positioning and filling
- Choice of kits with or without screw connectors for Copper and Aluminium conductors
- Core separator included to ensure adequate clearance between conductor connectors



- Earth bonding components included in kits for armoured cables
- Cable joints that comply with VDE standards
- Abrasive cloth, sealing tape and protective gloves included in the kit
- Performance tested to European standard EN 50393



CAT NO.	CABLE CONDUCTOR SIZE MAX mm <sup>2</sup> [A]		CABLE ENTRY DIA. (B) mm
	2 & 3 CORE	4 CORE	
PXE-SU1	10	6	6-19
PXE-SU2	25	10	6-27
PXE-SU3	35	16	14-34
PXE-SU4	50	25	16-37
PXE-SU5	70	50	20-44
PXE-SU6	120	95	26-52
PXE-SU7	185	150	35-67

## ESJ-R – LV RESIN STRAIGHT JOINT KITS

The ESJR range of resin straight joints have exceptionally good range taking capabilities and having the connector included offers even more benefits. The kit is made up of a PXE kit and the appropriate connectors – everything you need in one kit!

### ESJ-R RESIN KIT FEATURES

- Joint Insulation, sealing and mechanical protection provided by proven two-part polyurethane resin
- Kit contains connectors
- Range-taking
- Clear, robust, snap-together joint shells



ESJ-R Install Video



CAT NO.	3C NS & 4C CONDUCTOR SIZE MAX mm <sup>2</sup>	CABLE ENTRY DIA. mm
ESJ-R-4-10	6	6-27
ESJ-R-16-35	10	16-37

## LV RESIN JOINT KITS – STRAIGHT AND BRANCH JOINTS

Resin filled joints for armoured and unarmoured cables up to 1kV.

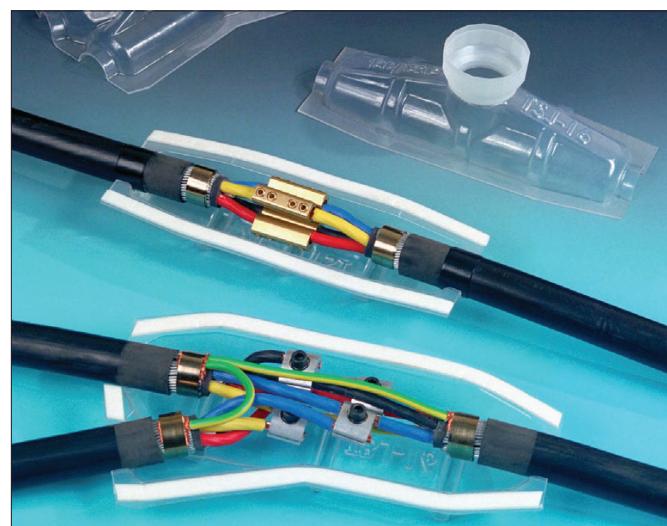
These LV Resin Joints are designed to accommodate modern mechanical connectors requiring no special installation tools. Both straight and branch joints are designed for cable ranges from 1.5mm<sup>2</sup> up to 300mm<sup>2</sup>.

### RESIN KIT FEATURES

- Joint Insulation, sealing and mechanical protection provided by proven two-part polyurethane resin supplied in convenient foil packs
- Clear, rigid high-impact joint shells allow easy viewing to aid correct installation
- Armour continuity bonding components included in every kit
- Qualified to national and international performance standards
- Joint shells are supplied complete with pre-applied foam sealing strips, fixing clips and sealing tape
- Filling the joint is easy with a convenient pouring funnel and sealing cap
- Joints are filled with a qualified and well established two-part polyurethane resin system supplied in flexible foil laminate pouches for easy mixing and pouring
- Resin Kits carry a full 2-year shelf life

### APPLICATIONS

- Joints are designed for 2, 3 and 4-core power cables with rated voltage up to 0.6/1.0 (1.2) kV
- Suitable for;
  - Copper or Aluminium (solid or stranded) conductors
  - up to 300mm<sup>2</sup>
  - XLPE, PVC OR EPR insulation
  - Wire armour (SWA) or strip armour
  - PVC or PE sheath
  - TBJ branch joints are suitable for branch cables up to the maximum main cable conductor size for each kit



### WITHOUT CONNECTOR

CAT NO.	STRAIGHT JOINTS	BRANCH JOINTS	CABLE SIZE mm <sup>2</sup>	2 & 3 CORE	4 CORE	CABLE ENTRY DIA. mm	MIN	MAX
TSJ6		TBJ6		1.5 - 10	1.5 - 6	9	21	
TSJ16		TBJ16		10 - 25	10 - 16	15	27	
TSJ35		TBJ35		25 - 50	25 - 35	21	33	
TSJ70		TBJ70		70 - 95	50 - 70	29	41	
TSJ120		TBJ120		120 - 150	95 - 120	39	57	
TSJ185		TBJ185		185 - 240	150 - 185	49	67	
TSJ300		TBJ300		300	240 - 300	59	77	



### WITH MECHANICAL CONNECTOR

CAT NO.	MAIN CABLE	CABLE SIZE mm <sup>2</sup>	BRANCH CABLE	CABLE ENTRY DIA. mm	MIN	MAX
TBJ-1	70-150		70-150	35	67	
TBJ-2	185-240		185-240	48	70	
TBJ-3	300-300		300-300	70	77	

## RAPID 4300 – RESIN FOR LOW & MEDIUM VOLTAGE CABLE JOINTS

The function of this casting material is to insulate and protect low and medium voltage systems where mechanical protection and prevention of water ingress from outside the joint or from within the cable are required (classification according HD 631.1 S2: LMP/LI-W: MMP-W).

RAPID 4300 is a two component hydrophobic, elastic polyurethane resin, meeting the requirements of HD 631.1 S2 and EN 50393. RAPID polyurethane resins consist of part A – a mixture of polyols, fillers and special additives - and part B – the hardener which is MDI (diphenylmethane-diisocyanate). The isocyanate is classified as a hazardous material and is labelled 'harmful' in accordance with European regulations.

Outstanding properties include excellent hydrolytic stability and most impressive hydrophobic characteristics. RAPID 4300 has an excellent curing profile at various temperatures, allowing easy handling and curing in different environments. Permanent elasticity ensures long-term stability and accommodation of cable movement. As a result of the cross-linking reaction, the resin

bonds strongly to functional parts, preventing the creation of voids between hardened resin and cable insulation.

The resins are supplied with gloves and instructions, and is supplied in a sealed bag. The two components are mixed in the double chamber bag to start the cross-linking process. The resin and hardener is most effective when mixed at room temperature for at least two minutes. The resin cures after mixing, to a tough flexible electrically inert mass. The resin has a 'pot' life of approximately 15 minutes to allow the joint to be filled, it gels in approximately 1 hour and is fully cured after 24 hours.

In ambient temperatures below 20°C follow recommendations in *Technical Note* below.



### TECHNICAL DATA

- Material: Resin: Polyol blend  
Hardener: Polymeric aromatic diisocyanate
- Type: Polyurethane
- Colour: Beige
- Mixing & Curing Times  
Mix time: 2 minutes. Pot life at 20°C: 15 minutes  
Gel time: Approximately 1 hour  
Cure time: 24 hours
- Reaction Temp: 60°C
- Mix Ratio: Resin to hardener: 100:36 by weight
- Specific Gravity: 1.08
- Hardness: 30 Shore D
- Dielectric Strength: 11kV/mm
- Tensile Strength: 4 MPa
- Shelf life: 24 months
- Storage Temp: 5°C min/40°C max
- Elongation at break 30%

### WITHOUT CONNECTOR

CAT NO.	PACKAGING	VOLUME (L)
JOR-06054	BAG	0.55
JOR-06056	BAG	1.7
JOR-59216	BAG	2.4
JOR-59220	BAG	4.3

### TECHNICAL NOTE – COLD TEMPERATURES

Resins do not cure rapidly in temperatures below 20°C. Either raise the ambient temperature or warm the joint, cable and connectors.

**Note:** Moisture can originate from a gas flame.



# LV INLINE HEATSHRINK JOINTS FOR XLPE CABLES, UP TO 1KV

## LV INLINE JOINT KITS WITH MECHANICAL CONNECTORS

### APPLICATIONS & FEATURES

- Single and multicore inline joint kits including mechanical connectors
- Complete range available
- Suitable for Al, Cu and Bi-Metal applications
- No need for jointing compound therefore no mixing or pouring
- Can be buried immediately, no curing time
- No shelf life on Heatshrink products



CAT NO.	NO. OF CORES	SIZE RANGE Cu mm <sup>2</sup>	SIZE RANGE Al mm <sup>2</sup>
LVJM-6/35-4	4 CORE	6-35	6-35
LVJM-25/95-4		25-70/95*	25-70/95*
LVJM-35/150-4		50-95/120*-150*	50-95/120*-150*
LVJM-95/185-4		95-185*	95-185*
LVJM-120/300-4		120/300*	120/300*
LVJM-185/400-4		185-300*	185-300*
LVJM-6/35-NS-4	3 CORE + NS	6-35	6-35
LVJM-25/95-NS-4		25-70/95*	25-70/95*
LVJM-35/150-NS-4		50-95/120*-150*	50-95/120*-150*
LVJM-95/185-NS-4		95-185*	95-185*
LVJM-120/300-NS-4		120/300*	120/300*
LVJM-185/400-NS-4		185-300*	185-300*
LVJM-6/35-1	1 CORE	6-35	6-35
LVJM-25/95-1		25-95	25-95
LVJM-95/240-1		95-240	95-240
LVJM-120/300-1		120-300	120-300

## LJSM – LV INLINE JOINT INCLUDING MECHANICAL CONNECTORS UP TO 1KV

### FEATURES & BENEFITS

- Standardised LV jointing system, fully compliant to the new specification DIN 47640
- High range-taking capability means a smaller number of kits are required
- Wall thickness of the insulation sleeves optimised to ensure mechanical and electrical strength over connectors
- Shear-torque-controlled reliable mechanical connectors
- No shelf-life issues with main components
- Easy and fast installation

CAT NO.	DESCRIPTION	CONDUCTOR SIZE mm <sup>2</sup>
LJSM-B-4X004-016	4 CORE INLINE JOINT UP TO 1KV	4-16
LJSM-B-4X016-050	4 CORE INLINE JOINT UP TO 1KV	16-50
LJSM-B-4X035-095	4 CORE INLINE JOINT UP TO 1KV	35-95
LJSM-B-4X035-150	4 CORE INLINE JOINT UP TO 1KV	35-150
LJSM-B-4X095-240	4 CORE INLINE JOINT UP TO 1KV	95-240
LJSM-B-4X185-400	4 CORE INLINE JOINT UP TO 1KV	185-300

## ESJ - 4 CORE INLINE JOINTS

### APPLICATIONS & FEATURES

- Kit contains all parts required to make off the joint
- For Copper and Aluminium applications
- Mechanical connectors ensure correct torque is reached for reliable connection

### WITH MECHANICAL CONNECTORS

CAT NO.	DESCRIPTION	SIZE RANGE mm <sup>2</sup>
ESJ-1C	1 CORE	6-70
ESJ-4-10	4 CORE & 3 CORE + NS	4-10
ESJ-16-35	4 CORE & 3 CORE + NS	16-35



ESJ-1-C Install Video



## INLINE JOINTS FOR TPS CABLE

### APPLICATIONS & FEATURES

- Perfect for TPS and smaller diameter cables
- Heatshrink tubing is cut to suitable lengths for waterproofing
- For use with Copper and Aluminium conductors

### WITHOUT CONNECTOR

CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	NO. OF CORES
LVK01	6-16	
LVK02	16-35	2-4 CORES
TJ-1	1-4	
TJ-2	6-10	4 CORE
TJ-3	9-16	



## SINGLE PHASE LV BRANCH JOINTS

### APPLICATIONS

- Single phase branch joints for low voltage plastic cables
- DSWS Wraparound technology with thermo-sensitive paint as visual guide
- Range taking USB Mechanical connector (-M kits only)
- Suitable for direct burial
- Branch off clip BOCL (-M & MD kits only) provides greater reliability of seal between two cables.
- Temperature range -40°C to 120°C



### WITH MECHANICAL CONNECTOR

CAT NO.	SINGLE TAIL	DOUBLE TAIL	CONDUCTOR SIZE MAIN mm <sup>2</sup>	CONDUCTOR SIZE TAP mm <sup>2</sup>
CRSM-CT1-M	CRSM-CT1-MD		25-95	16-35
CRSM-CT2-M	CRSM-CT2-MD		50-185	16-35
CRSM-CT3-M	CRSM-CT3-MD		185-300	16-35



### WITHOUT CONNECTOR

CAT NO.	CONDUCTOR SIZE - MAIN mm <sup>2</sup>	CONDUCTOR SIZE - TAP mm <sup>2</sup>	CONNECTOR LENGTH mm	MAXIMUM JOINT LENGTH OPENING mm
CRSM-CT-1-150	16-150	1.5-35	50	150
CRSM-CT-50-300	50-500	35-120	100	200
CRSM-CT-50-500		120-185	150	250

## EPKJ – LV INLINE JOINT KITS

### 1KV STRAIGHT JOINTS FOR PLASTIC INSULATED CONTROL CABLES

#### APPLICATIONS

- Armoured and unarmoured multi-core and multi-pair control cables
- Up to 1kV
- Duraseal connectors can be used with these joints (order separately)



#### WITHOUT CONNECTOR

CAT NO.	ARMoured	CONDUCTOR SIZE mm O.D.	NUMBER OF CORES
EPKJ-C-11	NO	1-4	2-7
EPKJ-CA-11	YES	1-4	2-7
EPKJ-CA-12	YES	1-4	7-14
EPKJ-C-13	NO	1-4	15-21
EPKJ-CA-13	YES	1-4	15-21
EPKJ-CA-14	YES	1-4	22-40
EPKJ-CA-15	YES	1-4	41-75

### 1KV STRAIGHT JOINTS FOR PAPER CABLES

#### WITHOUT CONNECTOR

CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	NUMBER OF CORES
EPKJ-PLA 3	16-35	4
EPKJ-PLA 4	50-95	4
EPKJ-PLA 5	70-150	4
EPKJ-PLA 6	185-300	4

### 1KV TRANSITION JOINTS FOR PAPER TO PLASTIC CABLES

#### WITHOUT CONNECTOR

CAT NO.	CONDUCTOR SIZE mm <sup>2</sup>	NUMBER OF CORES
EPKJ-0828	16-35	4
EPKJ-0835	35-50	4
EPKJ-0842	70-150	4
EPKJ-0856	185-300	4

## LJTM – LV INLINE TRANSITION JOINT KITS

#### APPLICATIONS

- Jointing plastic insulated cables to paper insulated cables
- Accommodates Aluminium sheathed and Lead sheathed paper insulated cables
- For jointing 4 core cables
- Connectors are included
- Range taking connectors reduce the number of kits required to cover the conductor range

#### WITH MECHANICAL CONNECTORS

CAT NO.	PLASTIC INSULATED CABLE	CONDUCTOR SIZE mm <sup>2</sup>	PAPER INSULATED CABLE, LEAD SHEATH	PAPER INSULATED CABLE, LEAD SHEATH
		PAPER INSULATED CABLE, ALUMINIUM SHEATH		
LJTM-4X10-50	10-50	10-50		10-50
LJTM-4X35-95	35-95	35-95		25-70
LJTM-4X35-150	35-150	35-150		35-120
LJTM-4X95-240	95-240	95-240		95-185

## LVTM – LV TERMINATION KITS FOR XLPE CABLES

### APPLICATIONS

- UV Resistant (includes covering for phase and neutral conductors)
- Voltage class 1kV
- Temperature range -40°C to 120°C
- Indoor or outdoor use
- Full range of terminations available
- Complete with mechanical lugs suitable for Al, Cu and Bi-Metal terminations



### WITH MECHANICAL CONNECTORS

CAT NO.	DESCRIPTION	SIZE RANGE Cu CONDUCTORS mm <sup>2</sup>	SIZE RANGE Al CONDUCTORS mm <sup>2</sup>
LVTM-16/70-4	4 CORE LV TERMINATION KIT	16-70*	25-70*
LVTM-35/120-4	4 CORE LV TERMINATION KIT	35-120*	35-120*
LVTM-120/240-4	4 CORE LV TERMINATION KIT	95-185*	95-185*
LVTM-240/300-4	4 CORE LV TERMINATION KIT	185-300*	185-300*

\*Pressed round

## LVTE – LV END OF RUN JOINTS FOR XLPE CABLES

### APPLICATIONS

- UV Resistant
- Perfect for direct burial
- Re-entrant for use at a later date
- Temperature range -40°C to 120°C

CAT NO.	DESCRIPTION	MAIN CABLE mm <sup>2</sup>	SERVICE CABLE
LVTE-16-70-4C	4 CORE TO 4 CORE END OF RUN JOINT	4 CORE 70mm <sup>2</sup>	4 CORE 16-35mm <sup>2</sup>
	4 CORE TO 1 CORE END OF RUN JOINT	4 CORE 70mm <sup>2</sup>	1 CORE 16-35mm <sup>2</sup>
LVTE-16-185-4C	4 CORE TO 4 CORE END OF RUN JOINT	4 CORE 185mm <sup>2</sup>	4 CORE 16-35mm <sup>2</sup>
	4 CORE TO 1 CORE END OF RUN JOINT	4 CORE 185mm <sup>2</sup>	1 CORE 16-35mm <sup>2</sup>

## LESK – LIVE END SEAL KITS LOW VOLTAGE

Raychem LV live end seal kits are designed for use on LV plastic insulated cables. The design enables the installer to safely and appropriately seal the end of a four core cable for direct burial & re-lining.



### FEATURES

- Environmental sealing of LV XLPE cable
- Resistant to corrosion and decay
- Uses Raychem Heatshrink technology
- Operating temperature range -40°C to 120°C
- Kitset contains all parts required to make off a live end seal
- Adhesive lined

CAT NO.	APPLICATION RANGE mm
LESK-25/50	4C, 25-50mm <sup>2</sup>
LESK-70/120	4C, 70-120mm <sup>2</sup>
LESK-150/300	4C, 150-300mm <sup>2</sup>

## RAYVOLVE RVS – TOOL FREE ROLL ON LV JOINT SYSTEM

### FEATURES

- Outer environmental seal for unarmoured and neutral screened cables
- Resistant to corrosion and decay
- Single core joints
- No heat required
- Connector not included in kit
- Fast and simple to install

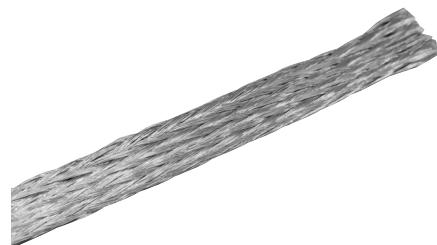


CAT NO.	CABLE OD mm	CABLE SIZE mm <sup>2</sup>	SLEEVE LENGTH mm	UNIT
RVS-11	9 - 17	10 - 70	205	EA
RVS-12	12 - 23	50 - 120	240	EA
RVS-13	18 - 30	120 - 300	305	EA
RVS-14	25 - 38	300 - 500	355	EA
RVS-15	36 - 46	N.A.	450	EA

## EARTH BRAID

Copper braid is used for earthing applications and cable jointing where the cable needs to be fully reinstated. The tinned Copper braid is a flexible fine woven wire product with a tinned finish.

Sold by the metre, Earth Braid can be cut to length to reduce waste.



CAT NO.	DESCRIPTION	WIDTH mm	UNIT
EPPA-O13-1-A	COPPER EARTH BRAID	7	M
EPPA-O13-3-A	COPPER EARTH BRAID	25	M
EPPA-O13-5-A	COPPER EARTH BRAID	35	M
EPPA-O13-6-A	COPPER EARTH BRAID	50	M

## ROLL SPRINGS

Also known as contact force springs, roll springs, made from fatigue resistant Stainless Steel are used used to attach a shielding braid to the tape shield of a plastic cable when terminating or jointing. The larger sizes are mainly used for attaching earth braids to lead sheathed cables and commonly forms an integral part of the MV TE joints and terminations.

Roll springs also work with copper earth braid as a clamp to hold it in place.



CAT NO.	APPLICATION RANGE mm	INTERNAL DIAMETER MAX mm	WIDTH MAX mm	UNIT
EPPA-O34-A	12-20	10		
EPPA-O34-B	17-26	14	13	EA
EPPA-O34-C	25-40	20		
EPPA-O34-E	17-29	14		
EPPA-O34-F	30-39	22		
EPPA-O34-M	33-45	19	25	EA
EPPA-O34-G	40-60	30		
EPPA-O34-H	50-75	37	30	EA

# PITS, PILLARS & ENCLOSURES

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## TUDS - TOTAL UNDERGROUND DISTRIBUTION SYSTEM

TUDS (Total Underground Distribution System) is a completely submersible system for use on distribution networks. TUDS has many benefits, mainly the increased reliability of the network and the aesthetic benefits for the public. TUDS can be installed live as all fittings are completely touch safe and fully submersible.

### PIT 300D KITS

These kits are designed for applications where the main conductor is overhead and a breach joint is not required. TUDS kits with a resin joint system are available if required.

#### KIT CONTAINS

- Pit
- Lid
- Neutral Connector (GelPort)
- Fuse Carrier (s)
- Fuse Link (s)
- Neutral Tag
- Heatshrink Breakout boot

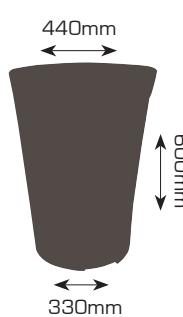
The enclosure itself has been tested (AS/NZS3661.1:1993 pedestrian slip, AS3996-1992 downward force) for its ability to stand up to the elements, the pit and lid are manufactured from durable black UV resistant plastic compounds.



CAT NO.	DESCRIPTION
PIT300D1PH	SINGLE PHASE PIT ASSEMBLY
PIT300D2PH	TWO PHASE PIT ASSEMBLY
PIT300D3PH	THREE PHASE PIT ASSEMBLY

### TUDS PITS

This pit is strong and versatile, it's made from durable, black, UV stable plastic compounds. TUDS pits are easily capable of having a car drive over or park on them (when complete with TUDS325LID pit lid).



CAT NO.	DESCRIPTION	TOP DIA. mm	BASE DIA. mm	HEIGHT mm
TUDS325S	SERVICE PIT WITH HOLES	440	330	600

## TUDS PIT LID

Made from durable, black, UV stable plastic compounds. Can be parked on and driven over. Locks into place and requires a tool for entry.

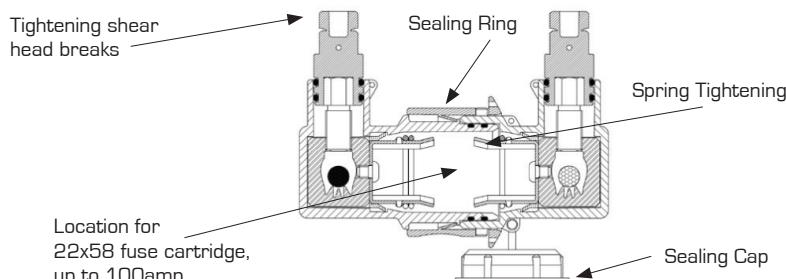


CAT NO.	DESCRIPTION	DIA. mm
TUDS325SLID	PIT LID BLACK NYLON DANGER/ELECTRICITY	390

## FUSE CARRIER

Fully submersible fuse carrier for fuse links up to 100amps. Used to connect the customer's service to the main supply.

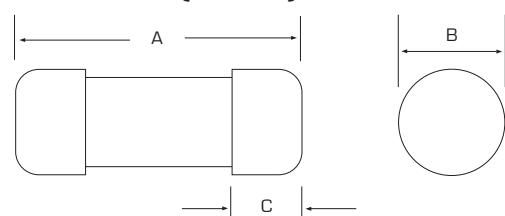
IPC technology means there is no need to remove cable insulation. The shearhead bolts will snap when the connection is made and the correct torque is reached.



CAT NO.	DESCRIPTION
K199	MICHAUD 100AMP SUBMERSIBLE FUSE CARRIER

## HRC FUSE LINK CYLINDRICAL 22X58MM - ME TYPE (KR85)

- Rated Voltage: 500V AC
- Rated breaking capacity: 100kA
- Standard specifications: IEC EN 60269-2-1
- Class: gG/gL



CAT NO.	AMPS	PACK SIZE	DIMENSIONS mm		
			A	B	C
TNME5	5	5	58	22	9.5
TNME10	10	5	58	22	9.5
TNME15	15	5	58	22	9.5
TNME20	20	5	58	22	9.5
TNME30	30	5	58	22	9.5
TNME40	40	5	58	22	9.5
TNME50	50	5	58	22	9.5
TNME60	60	5	58	22	9.5
TNME80	80	5	58	22	9.5
TNME100	100	5	58	22	9.5



## GELPORT – SUBMERSIBLE CONNECTOR

Simply strip the cable and push it into the gel-filled cable port. The cable is encapsulated in gel and instantly sealed. GelPort's are corrosion resistant, rugged with an impact resistant housing and can withstand rough installations. The PowerGel-filled cable entry ports provide a reliable cable seal. PowerGel sealing gel was specifically developed for the electrical industry. It is hydrophobic and provides an excellent moisture seal over a wide range of operating temperatures (-40°C to 95°C).

The 7-1201146-7 is the standard GelPort supplied in pit kits, all other GelPort sizes can be used in TUDS pits.

CAT NO.	BACK COVER COLOUR	NUMBER OF CABLE PORTS	CABLE SIZE mm <sup>2</sup>	DIMENSIONS mm		
				LENGTH	WIDTH	HEIGHT
5-1899241-7	CLEAR	3	16-240	117	97	89
5-1899241-8	CLEAR	4	16-240	149	97	89
5-1899241-9	CLEAR	5	16-240	180	97	89
6-1899241-0	CLEAR	6	16-240	212	97	89
6-1899241-1	CLEAR	8	16-240	276	97	89
7-1201146-7	BLACK	4	6-150	149	97	89
GPRT-300-3P	CLEAR	3	2x185-300 1x16-185	128	90	105



## NEUTRAL TAG

Neutral Tag to be fitted to the neutral connector once all relevant tests have been done. Attach with a cable tie.

CAT NO.	DESCRIPTION
FA2S0000000000	NEUTRAL TAG, TESTED & APPROVED FOR LIVENING



## REPLACEMENT SHEARBOLT

Yellow replacement shearbolts are used when a cable is removed and replaced in a K199 fuse carrier. Shearbolts must be replaced not reused to ensure the correct torque rating is reached and a good connection is made.

CAT NO.	DESCRIPTION
6-1198553-1	MICHAUD REPLACEMENT YELLOW SHEAR BOLT FOR K199

## TUDS LID LIFTING TOOL

Lid opening tool for accessing TUDS.



CAT NO.	DESCRIPTION
0-0361414-3	PIT LID LIFTER FOR TUDS325

## LID SCREW

For extra security you can screw the TUDS lid into place.

CAT NO.	DESCRIPTION
PITLIDSCREW	STAINLESS STEEL ALLEN SCREW FOR LID

## LABELLING

In order to easily identify each service the TUDSIDENTKIT1 allows you to build customised labels on site. Simply slide the characters onto the carrier strips and secure to the cable using cable ties.

Individual characters can be purchased to restock kit.

### KIT CONTAINS

- Toolbox Organiser
- Cable Ties
- All characters (0-9 and A-Z) included



CAT NO.	DESCRIPTION
TUDSIDENTKIT1	PIT LABELLING KIT SET

## BURIED CABLE ENCLOSURE PIT

Being that it's so versatile, this Buried Cable Enclosure Pit is widely used in electrical, telephone and water industries. Made of high density polyethylene structural foam, this rigid enclosure is light weight and easy to handle.

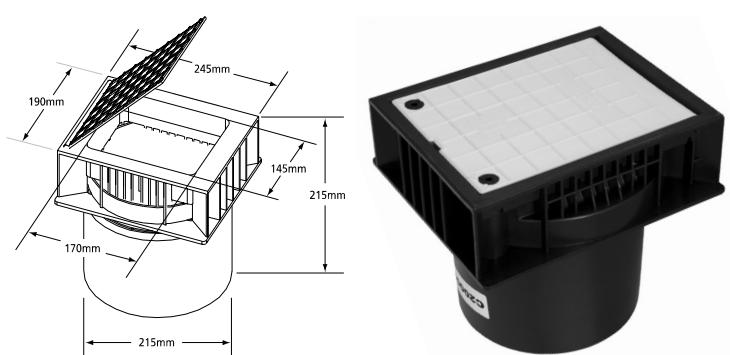


CAT NO.	DESCRIPTION	DIA. mm	HEIGHT mm
PE9HDHK	CIRCULAR PLASTIC VAULT	265	255

## EARTH ROD INSPECTION BOX

The ERITECH PIT03 offers a high level of protection for critical grounding terminations through the use of its lockable lid. Ease of maintenance of the ground termination is gained by way of the large working aperture once the lid is un-locked using the security key.

Due to its lightweight robust construction the ERITECH PIT03 can withstand 5tonnes making it ideal for installation in heavy traffic areas.



CAT NO.	DESCRIPTION	DIMENSIONS
C2000930	ERICO EARTH ROD INSPECTION BOX	215H x 215D x 190W x 245L

## TRANSNET EARTH ROD INSPECTION BOX

Designed by NZ contractors for NZ contractors! Improve the look and safety of your installation with this unit. Made in NZ, this unit is UV stable and offers a strengthened lid for longevity.

### Features

- Heavy duty hinged lid
- Lid latches closed
- UV stabilised material
- Easy to identify
- Designed and manufactured in NZ



CAT NO.	DESCRIPTION	DIMENSIONS (TOP) mm	HEIGHT mm
TNERIB	EARTH ROD INSPECTION BOX	120x120	200

## ECOPILLAR

The Ecopillar range is made from UV stable Rotathene 6309 plastic which has guaranteed UV stability of 50 years. These pillars are round giving them extra strength and durability and the latching mechanisms ensure secure pillars. Each pillar comes

standard with a stainless steel serial number and a 250amp Copper neutral bar with stainless steel studs.

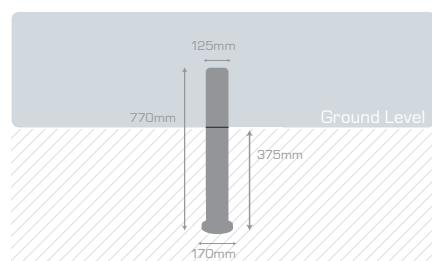


## EPO

The EPO incorporates a slimline low visibility profile, a latch and two captured Torx40 screws for fastening and can accommodate either one watertight fuse carrier or two industry standard

electrical fittings. Ideal for use in low demand installations like small homes, utility buildings and illuminated bus shelters.

### TYPE O CAPABILITIES



CAT NO.	DESCRIPTION
EPO	ECOPILLAR TYPE O WITH NEUTRAL BAR

## EP1

Designed to house up to 3 watertight service fuses and 4 watertight streetlight/pilot fuses. The EP1 was built with a compact footprint so as to minimise the impact on the landscape.

### TYPE 1 CAPABILITIES



This pillar features a fastener free latching system to increase security and reduce the risk of unsecured lids.



CAT NO.	DESCRIPTION
EP1	ECOPILLAR TYPE 1 WITH NEUTRAL BAR

## EP2

The EP2 has the same compact footprint as the EP1 and can accommodate a range of fittings including up to 10 industry standard electrical fittings. Ideal as an all-round service pillar.



### TYPE 2 CAPABILITIES



\*Additional combinations possible

CAT NO.	DESCRIPTION
EP2	ECOPILLAR TYPE 2 WITH NEUTRAL BAR

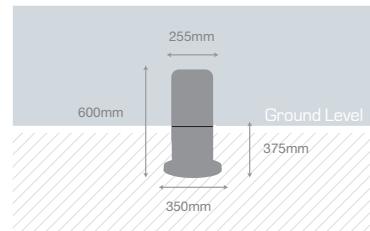


## EP2S

The EP2S is essentially the same as the EP2 except it has a lower profile and is only able to hold up to 5 standard electrical fittings (BS 88, IEC269) on one panel.

This pillar sits lower to the ground than the EP2 making it even more aesthetically pleasing.

### TYPE 2 SHORT CAPABILITIES



CAT NO.	DESCRIPTION
EP2S	ECOPILLAR TYPE 2 SHORT WITH NEUTRAL BAR

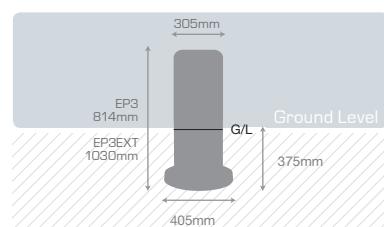
## EP3

Designed as a multipurpose pillar the EP3 can accommodate many different combinations of fuses and disconnect switches up to 3 way 250amp. The footprint of the EP3 is larger allowing it to

accommodate these larger fittings. The EP3 is secured with the same captured Torx40 screws.



### TYPE 3 CAPABILITIES



\* Additional combinations possible

CAT NO.	DESCRIPTION
EP3	ECOPILLAR TYPE 3 WITH NEUTRAL BAR - OVERALL HEIGHT 814mm
EP3EXT	ECOPILLAR TYPE 3.5 WITH NEUTRAL BAR, EXTENDED BASE - OVERALL HEIGHT 1030mm

## EP3.5

The EP3.5 was designed to allow more working room in the rear whilst still accommodating up to two 160A disconnectors on the front panels. The footprint of the EP3.5 is larger allowing it to

### TYPE 3.5 CAPABILITIES



\*Additional combinations possible



accommodate these requirements. The EP3.5 is secured with the same captured Torx40 screws.



## CAT NO.

## DESCRIPTION

EP3.5	ECOPILLAR TYPE 3.5 WITH NEUTRAL BAR - OVERALL HEIGHT 950mm
EP3.5EXT	ECOPILLAR TYPE 3.5 WITH NEUTRAL BAR & EXTENDED BASE - OVERALL HEIGHT 1150mm

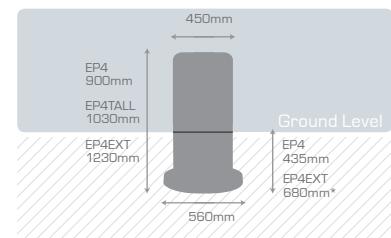
## EP4

The EP4 is designed to house the larger 400amp and 630amp Horizontal Disconnect Switches along with many combinations of smaller disconnects and fuses. This pillar comes complete with captured Torx40 screws.

### TYPE 4 CAPABILITIES



\*Additional combinations possible



\*Base has 365mm to ground level, 315mm above ground

## CAT NO.

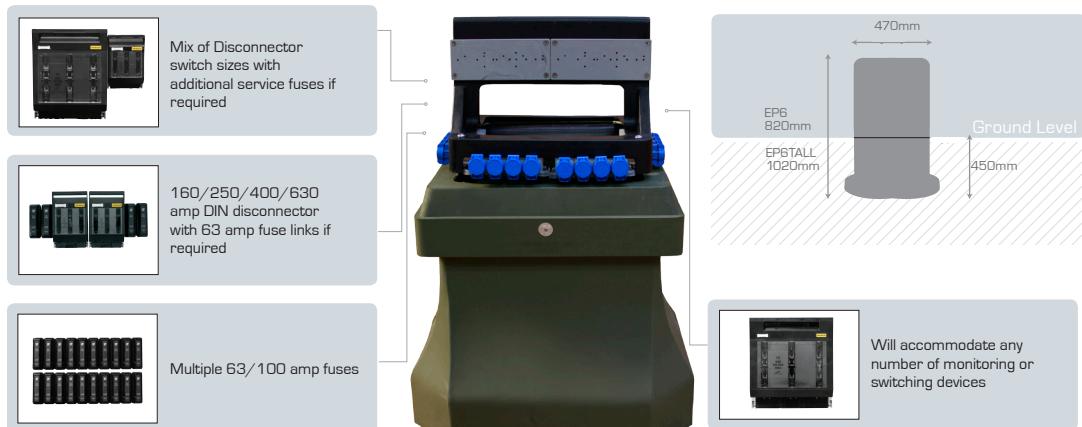
## DESCRIPTION

EP4	ECOPILLAR TYPE 4 WITH NEUTRAL BAR - OVERALL HEIGHT 900mm
EP4TALL	ECOPILLAR TYPE 4 WITH TALL LID & REMOVABLE RACK - OVERALL HEIGHT 1030mm
EP4EXTTALL	ECOPILLAR TYPE 4 WITH EXTENDED BASE, TALL LID & REMOVABLE RACK - OVERALL HEIGHT 1230mm

## EP6

The largest and most versatile of the ECOPillar range the EP6 was designed to accommodate the requirements of a network link and junction pillar as well as being capable of housing service fuses, disconnect switches and any number of combinations of hardware.

### TYPE 6 CAPABILITIES



\*Additional combinations possible



The feature setting this pillar apart is the ability to house submersible GelPort connectors in the base.



### CAT NO.

### DESCRIPTION

EP6	ECOPILLAR TYPE 6 WITH NEUTRAL BAR - OVERALL HEIGHT 820MM
EP6TALL	ECOPILLAR TYPE 6 WITH NEUTRAL BAR, DOUBLE RACK, TALL LID - OVERALL HEIGHT 1020MM

## FUSE KITS

The ECOPillar range is versatile and easy to populate. We have a range of fuse kits available for each of our ECOPillar models and these fuse kits can be supplied separately or installed onto the panel prior to shipping from our store.



### CAT NO.

### DESCRIPTION

EPFUSE32AKIT	32A FUSE AND ASSEMBLY TO PANEL
EPFUSE63AKIT	TE 63A FUSE AND ASSEMBLY TO PANEL
EPFUSE100AKIT	100A FUSE AND ASSEMBLY TO PANEL

## PANEL KITS

Made from Fire Retardant plastic, ECOPILLAR panels have been injection moulded with holes to accommodate standard electrical

fittings. Panel kits come complete with plastic tapping screws for fastening to pillar body.



EPO PANEL KIT



EP2/2S PANEL KIT



EP3 PANEL KIT

### CAT NO.

### DESCRIPTION

EPO PANEL KIT	EPO GREY PVC PANEL DRILLED WITH SCREWS
EP2/2S PANEL KIT	EP2/2S GREY PVC PANEL DRILLED WITH SCREWS
EP3 PANEL KIT	EP3 GREY PVC PANEL DRILLED WITH SCREWS

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## LED SPOTS 5W - LEDLB

### FEATURES

- Beam angle: 38°
- Over 80% more efficient than traditional halogen lamps
- Lower operating temperature
- Longer running life - up to 30,000 hrs
- Simple to retrofit - fits into existing fittings
- Environmentally friendly for disposal - no mercury
- Warm white & cool white light temperatures available
- Non-Dimmable



CAT NO.	COLOUR TEMPERATURE	LUMENS	POWER	SUPPLY VOLTAGE
LEDLB-GU10CW	COOL WHITE	340	5W	180~240V AC
LEDLB-MR16CW		340		9~12V AC
LEDLB-GU10WW	WARM WHITE	330	5W	180~240V AC
LEDLB-MR16WW		330		9~12V AC

## LED BULBS 10W - LEDLB

### FEATURES

- Over 80% more efficient than traditional incandescent lamps
- Lower operating temperature
- Longer running life - Up to 30,000hrs
- Warm white (3000K) & cool white (5500K) colour temperatures
- Excellent light uniformity
- Dimmable (trailing edge)
- 145° beam angle



CAT NO.	END CAP	COLOUR TEMPERATURE	LUMENS	POWER	SUPPLY VOLTAGE
LEDLB-ESCWWDIM	EDISON SCREW	COOL WHITE	760	10W	180~240V AC, 50/60HZ
LEDLB-BCCWWDIM	BAYONET CAP				
LEDLB-ESWWWDIM	EDISON SCREW	WARM WHITE	730	10W	180~240V AC, 50/60HZ
LEDLB-BCWWWDIM	BAYONET CAP				

## LED FLOODLIGHT 10W - LEDFL09

### FEATURES

- Power Factor: 0.98
- Colour rendering index: Ra>80
- Ambient temperature: -40°C to 50°C
- Colour temperature[1]: 5700k
- IP Rating: IP65
- Dimensions: 114.5 x 86 x 105mm, Weight: 0.8 kg
- Instant start up
- Cool running temperature
- Vibration resistant
- No strobe effect
- AC and DC versions
- Long life span up to 30,000 hrs

[1] Other output colour temperatures available



CAT NO.	FEATURE	LUMENS	POWER	CURRENT	SUPPLY VOLTAGE
LEDFL09-10DC	DC VOLTAGE	900	10W	0.83A	9-30V DC
LEDFL09-10AC	AC VOLTAGE	900	10W	0.04A*	85~265V AC
LEDFL09-10ACWW	WARM WHITE COLOUR	900	10W	0.04A*	85~265V AC
LEDFL09-10PC	POLYCARBONATE LENS	900	10W	0.04A*	85~265V AC

\* AC Current rating at 230V AC

## LED FLOODLIGHT 30W – LEDFL10

### FEATURES

- Available with or without inbuilt PIR sensor
- Power Factor: 0.98
- Colour rendering index: Ra>80
- Ambient temperature: -40°C to 50°C
- Colour temperature: 5700K
- LEDFL10-30AC = IP65 / LEDFL10-30PIR = IP44
- Dimensions: 225 x 185 x 145mm, Weight: 2kg
- Instant start up
- Cool running temperature
- Vibration resistant
- No strobe effect
- Long life span up to 30,000 hrs



CAT NO.	INBUILT SENSOR	LUMENS	POWER	CURRENT	SUPPLY VOLTAGE
LEDFL10-30AC	NO	2640	30W	0.13A*	85~265V AC
LEDFL10-30PIR	YES	2640	30W	0.13A*	85~265V AC

\* AC Current rating at 230V AC

## LED FLOODLIGHT 25W & 40W – LEDFL11

Made from a powder coated Aluminium housing, with a frosted toughened glass lens and 316 Stainless Steel fasteners, the LEDFL11 is a robust LED Floodlight made to withstand tough environmental conditions. DC options offer flexibility for different applications. Alternative mounting options such as cable tray make for a fast effective installation.



### TECHNICAL SPECIFICATIONS

LED Sources	25W, 40W
Input Voltage	AC (85~265V, 50-60Hz), DC 12V or 24V
Power Supply Efficiency	>90%
Power Factor	>0.98
LED Lighting Efficiency	100lm/W
Colour Rendering Index	Ra>80
Colour Temperature	Cool White 5700K Warm White 3000K
Ambient Temperature	-40°C to 55°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	LM06 equivalent Aluminium, high strength toughened glass & 316 Stainless Steel fastenings
Dimensions	262x185x163mm, 3.3kg

CAT NO.	LENS	LUMENS	POWER	CURRENT	SUPPLY VOLTAGE
LEDFL11-25AC	TOUGHENED GLASS	2250	25W	0.12A*	85~265V AC
LEDFL11-25DC12	TOUGHENED GLASS	2250	25W	2.25A	12V DC
LEDFL11-25DC24	TOUGHENED GLASS	2250	25W	1.13A	24V DC
LEDFL11-25PC	POLYCARBONATE	2250	25W	0.12A*	85~265V AC
LEDFL11-40AC	TOUGHENED GLASS	3600	40W	0.18A*	85~265V AC
LEDFL11-40ACWW	TOUGHENED GLASS	3600	40W	0.18A*	85~265V AC
LEDFL11-40DC12	TOUGHENED GLASS	3600	40W	3.58A	12V DC
LEDFL11-40DC24	TOUGHENED GLASS	3600	40W	1.79A	24V DC
LEDFL11-40PC	POLYCARBONATE	3600	40W	0.18A*	85~265V AC

\* AC Current rating at 230V AC

## LED FLOODLIGHT 50W – LEDFL12

The LEDFL12-50 uses a 50W single high power LED as the light source. It saves 50-70% on the electricity costs when compared with a halogen lamp.

It has a powder coated Aluminium housing and Stainless Steel fasteners to ensure longevity in outdoor environments.



### FEATURES

50W LED
Power Factor: 0.98
Colour rendering index: Ra>80
Ambient temperature: -40°C to 50°C
Colour temperature <sup>(1)</sup> : 5700k
IP Rating: IP65
Weight: 3 kg
Dimensions: 290 x 236 x 206mm
Instant start up
Cool running temperature
Vibration resistant
Low energy costs
Low maintenance costs
No strobe effect
Long life span up to 30,000 hrs

<sup>(1)</sup> Other output colour temperatures available

CAT NO.	LUMENS	POWER	CURRENT	SUPPLY VOLTAGE
LEDFL12-50	5000	50W	0.22A*	85~265V AC

\* AC Current rating at 230V AC

## LED FLOODLIGHT 70W – LEDFL17

The slim profile is excellent for locations where roof heights are at a minimum, and traditional high bays will not fit. It's also popular as security and yard lighting for commercial and industrial buildings.

### Options (available on request)

- 316 Stainless Steel mounting bracket
- Polycarbonate lens, (no glass at all)
- Horizontal or Low bay mounting bracket



### TECHNICAL SPECIFICATIONS

LED Sources	70W
Input Voltage	AC (85~265V), Frequency (50-60Hz), DC (24V)
Power Supply Efficiency	>90%
Power Factor	>0.9
LED Lighting Efficiency	100lm/W
Colour Rendering Index	Ra>80
Colour Temperature	Cool White 5700K, Warm White 3000K
Ambient Temperature	-40°C to 55°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	LM06 equivalent Aluminium, 316 Stainless Steel fasteners, High strength toughened glass
Weight	7.39kg
Effective Light Angle	103°
Dimensions	368x285x93mm

CAT NO.	FEATURE	LUMENS	POWER	CURRENT	SUPPLY VOLTAGE
LEDFL17-70AC	AC VOLTAGE	7200	70W	0.32A*	85 ~ 265V AC
LEDFL17-70ACWW	WARM WHITE COLOUR	7200	70W	0.32A*	85 ~ 265V AC
LEDFL17-70DC24	DC VOLTAGE	7200	70W	3.16A	24V DC
LEDFL17-70PC	POLYCARBONATE LENS	7200	70W	0.32A*	85 ~ 265V AC
LEDFL17-70FG	FROSTED GLASS LENS	7200	70W	0.32A*	85 ~ 265V AC
LEDFL17-70ACFGD	FROSTED GLASS, DIMMABLE	7200	70W	0.32A*	85 ~ 265V AC
LEDFL17-70ACDIM	DIMMABLE	7200	70W	0.32A*	85 ~ 265V AC

\* AC Current rating at 230V AC

## LED FLOODLIGHT 140W - LEDFL18

A high quality professional looking light suitable for both indoor and outdoor applications. The slim profile is excellent for locations where roof heights are at a minimum, and traditional high bays will not fit, also popular as security and yard lighting outside large commercial and industrial buildings.

### Options (available on request)

- Dimmable (0-10V) control, at max dim only draws 40W
- 316 Stainless Steel mounting bracket
- Polycarbonate lens, no glass at all



### TECHNICAL SPECIFICATIONS

LED Sources	140W
Input Voltage	AC [85-265V, 50-60Hz], DC [24V]
Power Supply Efficiency	>90%
Power Factor	>0.9
LED Lighting Efficiency	100lm/W
Luminaire Efficiency	>90%
Colour Rendering Index	Ra>80
Colour Temperature	2700K~5700K
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	LM06 equivalent Aluminium, 316 Stainless Steel fasteners, High strength toughened glass
Weight	10.6kg
Effective Light Angle	107°
Dimensions	568x285x93mm

CAT NO.	LENS	LUMENS	CURRENT	SUPPLY VOLTAGE
LEDFL18-140AC	TOUGHENED GLASS	11,700	0.47A*	85 ~ 265V AC
LEDFL18-140ACWW	TOUGHENED GLASS	11,700	0.47A*	85 ~ 265V AC
LEDFL18-140OPC	POLYCARBONATE	11,700	0.47A*	85 ~ 265V AC
LEDFL18-140DC24	TOUGHENED GLASS	11,700	6.72A	24V DC

\* AC Current rating at 230V AC

## LED FLOODLIGHT 400W - LEDFL37

This unit is perfect for sports fields, carparks, large industrial portable lighting stands, and trucking yards where good lighting is required on a larger scale. It has a similar lighting output level to a 1000 watt metal halide.



### TECHNICAL SPECIFICATIONS

LED Sources	400W
Input Voltage	AC [80~315V]
Power Supply Efficiency	>90%
Power Factor	>0.98
LED Lighting Efficiency	100lm/W
Colour Rendering Index	80
Colour Temperature	6000K
Ambient Temperature	-40 to +600C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	Aluminium, Toughened Glass
Weight	13kg
Dimensions	680x380x190mm
Lumens	36,000

CAT NO.	BEAM ANGLE	LUMENS	POWER
LEDFL37-400AC	60 degrees	36,000	400W

## LED HIGH BAYS 100W – LEDIL

This range uses a single high power 100 watt LED light source, with a high efficiency stable LED driver. When comparing with high pressure sodium lamps it can save 60% energy. The 100W high bay range comprises of wide and narrow angle beams using either a polycarbonate diffuser or anodic oxidation reflector.

This range is dimmable for even better energy efficiency.



### TECHNICAL SPECIFICATIONS

LED Sources	100W
Input Voltage	AC (85-265V), Frequency (50-60Hz)
Power Supply Efficiency	>90%
Power Factor	>0.98
LED Lighting Efficiency	100lm/W
Luminaire Efficiency	>90%
Colour Rendering Index	Ra>70-80
Colour Temperature	Cool White 5700K, Warm White 3000K
Ambient Temperature	-40°C to 55°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead, Mercury
Materials: -PC Diffuser	PC transparent reflector Acrylic glass cover Acrylic sealing cover
-Reflector	Anodic oxidation reflector
Weight	4.0-7.5kg

CAT NO.	DIFFUSER	BEAM ANGLE (Degrees)	LUMENS	POWER	OVERALL HEIGHT mm	WORKING HEIGHT m
LEDIL22-100AC	POLYCARBONATE	88	9350	100W	609	4-8
LEDIL23-100AC	REFLECTOR	120	9350	100W	609	4-8
LEDIL24-100AC	POLYCARBONATE	97	9350	100W	750	4-8
LEDIL25-100AC	REFLECTOR	45	9350	100W	750	6-10

## LED HIGH BAYS 150W – LEDIL

The 150W range uses a single high power LED light source, with a high efficiency stable LED driver.

When comparing with high pressure sodium lamps these lights can save 60% energy. This range comprises of wide and narrow angle beams using either a polycarbonate diffuser or Aluminium reflector.



### TECHNICAL SPECIFICATIONS

LED Source	150W
Input Voltage	AC (85-265V) Frequency (50-60Hz)
Power Factor	>0.98
LED Lighting Efficiency	100lm/W
Colour Rendering Index	Ra>75
Colour Temperature	2700K-6500K
Ambient Temperature	-40°C to 55°C
IP Rating	IP54
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead, Mercury
Materials	PC Diffuser, Aluminium Reflector
Weight	8-12kg
LED Beam Angle	45°-120°
LED Lumens	12,960lm
Overall Height	550-700mm

CAT NO.	DIFFUSER	BEAM ANGLE (Degrees)	LUMENS	POWER	OVERALL HEIGHT mm	WORKING HEIGHT m
LEDIL22-150AC	POLYCARBONATE	88	12,960	150W	550-700	4-10
LEDIL23-150AC	REFLECTOR	120	12,960	150W	550-700	4-10
LEDIL24-150AC	POLYCARBONATE	97	12,960	150W	550-700	4-10

## LED HIGH BAYS 200W – LEDIL

The ideal replacement for traditional high bays. LED technology eliminates costly lamp replacement programmes.

The 200W industrial high bay is the most powerful in the range. The wide angle light is used in high roof industrial plants while the narrow angle light is used for tower lighting.

### FEATURES

- Uniform light distribution
- Dimmable
- Multiple beam angles
- Instant start up
- Low lens temperature, reduces dust build up
- REmote mount driver options up to 40M



### TECHNICAL SPECIFICATIONS

LED Sources	200W
Input Voltage	AC (85~265V) Frequency (50~60Hz)
Power Supply Efficiency	>90%
Power Factor	>0.98
LED Lighting Efficiency	100lm/W
Colour Rendering Index	Ra>70
Colour Temperature	Cool White 5700K
Colour Temperature	Warm White 3000K
Ambient Temperature	-40°C to 55°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	LM06 equivalent Aluminium, high strength toughened glass
Weight	20.5kg
Dimensions	529mm Diameter 529x529x319mm

CAT NO.	BEAM ANGLE (Degrees)	LUMENS	POWER	OVERALL HEIGHT mm	WORKING HEIGHT
LEDIL27-200AC*	100	19800	200W	309	10-20M
LEDIL28-200AC*	65	19800	200W	309	10-20M
LEDIL29-200AC*	35	19800	200W	309	10-20M

\* Available with acrylic plastic lens. Can be supplied with a driver to enable these lights to operate on 400 volts DC or 400 volts AC.

## LED FOOD GRADE LIGHTING – GLASS FREE

The ECOLight Polycarbonate range do not contain glass, making them suitable for food grade areas.

The entire Floodlight and High bay ranges are available with Polycarbonate lenses or diffusers. If this is a requirement please add PC as the suffix to the part number in place of AC. An example is LEDFL18-140PC for a polycarbonate lens or LEDFL18-140AC for a glass lens.

Details on Polycarbonate lens Floodlights are listed below, details on Polycarbonate diffuser High Bay fittings are available on the preceding pages.

SDOC's are available on our website. [www.ecolight.co.nz](http://www.ecolight.co.nz)



CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE	CURRENT
LEDFL09-10PC	900	10W	85~265V AC	0.05A*
LEDFL11-25PC	2250	25W	85~265V AC	0.12A*
LEDFL11-40PC	3600	40W	85~265V AC	0.18A*
LEDFL17-70PC	6300	70W	85~265V AC	0.32A*
LEDFL18-140PC	12600	140W	85~265V AC	0.47A*
LEDFL17-70ACDIM	6300	70W	85~265V AC	0.32A*

\* Current rating at 230V AC

## MARINE LED FLOODLIGHTS

ECOLight LED has proven its durability and performance in harsh outdoor and marine environments. Featuring Cermachrome Aluminium coating or Aluminum casings and mounting brackets.



CAT NO.	LUMENS	POWER
LEDFL11-25W	2250	25W
LEDFL11-40W	3600	40W
LEDFL17-70W	7200	70W
LEDFL18-140W	11,700	140W

## SENSORS - LIGHT/MOTION

### MOTION SENSOR: Dual Range

There are two different types of motion sensor in our range  
1. The on/off sensors are used to turn the lights on for a set time (between 8sec-12min) when movement is detected.

2. The 0-10V sensors work directly with our dimmable lights, perfect when turning the lights off is not an option. No movement keeps the lights at maximum dim, when movement is detected the lights immediately change to full brightness.

Both have a selectable light level to optimise energy savings. Above the set light level, the lights will not change state on detection of movement. This feature is most suited in applications with high ambient light levels during the day, and can be disabled.

### FEATURES

Light Setting: 0-500 lux

360° detection

Range: 1-18m adjustable

Power Consumption: 0.5W

Max Load: 1200W

Time Setting: 8sec-12min last movement detection



LIGHT SENSOR



MOTION SENSOR

### LIGHT LEVEL SENSORS

This range of light level sensors offers an analogue output signal depending on light level. Used to control dimming of lights these light level sensors make any smart relay or PLC that may already be in the plant or factory into a simple, intelligent lighting controller.

Our technical staff are able to assist with specific programs for smart relays to control the lights.

### FEATURES - LIGHT LEVEL SENSORS

Supply Voltage: 24V

Output Signal: 0-10V or 4-20mA

Range: 0-2000lux

CAT NO.	SENSOR TYPE	INPUT	OUTPUT
SENSORAO-IN	LIGHT LEVEL	24V	0-10V / 4-20MA
SENSORAO-OUT	LIGHT LEVEL	24V	0-10V / 4-20MA
CONTROLLER	LIGHT LEVEL	230V AC	0-10V Control signal
SENSORHZ-0-10V	MOTION	230V AC	0 volts on movement / 10 volts no movement
SENSORHZ-OFF-ON	MOTION	230V AC	230 volts on movement / 0 volts no movement

Note: SENSORHZ is made specifically to work with the 0-10V dimming capability on the ECOLight range

## LED STREETLIGHT 40W – TNL0729

TNL0729-40 is our latest low maintenance LED streetlight for residential areas, branch road and an excellent combination with solar street lighting. Power consumption is 40W with efficiency over 100lm/W in daylight white. It comes with excellent optical design and light distribution.

A daylight sensor is available as an optional extra if required.



### TECHNICAL SPECIFICATIONS

LED Sources	40W
Input Voltage	AC (85~265V) Frequency (50-60Hz) DC (12V, 24V)
Power Supply Efficiency	>90%
Power Factor	>0.98
LED Lighting Efficiency	90-110lm/W
Luminaire Efficiency	>90%
Colour Rendering Index	Ra>75
Colour Temperature	2700K~5700K
Ambient Temperature	-40°C to 50°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	LM06 equivalent Aluminium
Weight	4kg
Mounting Size [1]	50-60mm
Dimensions	500x278x122mm

CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE	CURRENT
TNL0729-40DC24	4050	40W	24V DC	1.79A
TNL0729-40	4050	40W	85~265V AC	0.17A*

[1] Universal mounting adapter 35 - 65mm available: Part #TNLSLPA

\* Current rating at 230V AC

## LED STREETLIGHT 60W & 100W – TNL0730

TNL0730 cobra head LED streetlights use a single powerful LED (60-100W) as the light source. The more traditional design is suitable for city streets, schools, parks and pedestrian crossings.

Daylight sensor is available as an optional extra if required.



### TECHNICAL SPECIFICATIONS

LED Sources	60 & 100W
Input Voltage	AC (85~265V) Frequency (50-60Hz)
Power Supply Efficiency	>90%
Power Factor	>0.98
LED Lighting Efficiency	100lm/W
Luminaire Efficiency	>90%
Colour Rendering Index	Ra>80
Colour Temperature	2700K~5700K
Ambient Temperature	-40°C to 55°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	LM06 equivalent Aluminium
Weight	9.56kg
Mounting Size [1]	50-60mm
Dimensions	720x324x172mm

CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE	CURRENT
TNL0730-60	5850	60W	85~265V AC	0.32A*
TNL0730-100	9390	100W	85~265V AC	0.45A*

[1] Universal mounting adapter 35 - 65mm available: Part #TNLSLPA

\* Current rating at 230V AC

## LED STREETLIGHT 60W, 100W, 120W – TNL0735

TNL0735 streetlights use two high powered LEDs (30-60W) with an LM06 equivalent Aluminium housing and heat sink, high strength tempered glass cover and high efficiency LED driver. The design incorporates a proprietary method of transferring heat to the heat sink which features wings to take advantage of cross ventilation. This heat dissipation enhances the 50,000 hour useable life of the LED.

Daylight sensor is available as an optional extra if required.



### TECHNICAL SPECIFICATIONS

LED Sources	60, 100 & 120W
Input Voltage	AC (85~265V) Frequency (50~60Hz)
Power Supply Efficiency	>90%
Power Factor	>0.98
LED Lighting Efficiency	100lm/W
Luminaire Efficiency	>90%
Colour Rendering Index	Ra>80
Colour Temperature	2700K~5700K
Ambient Temperature	-40°C to 55°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	LM06 equivalent Aluminium, 316 Stainless Steel fasteners, High strength toughened glass
Weight	12.5kg
Mounting Size (1)	50-60mm
Dimensions	750x390x190mm

CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE	CURRENT
TNL0735-60	5850	60W	85~265V AC	0.32A
TNL0735-100	9900	100W	85~265V AC	0.45A
TNL0735-120	12150	120W	85~265V AC	0.55A

(1) Universal mounting adapter 35-65mm available: Part #TNL5LPA

## BATTERY POWERED LED FLOODLIGHT – 10W & 20W

The perfect portable work light. Available in 10W and 20W this rechargeable battery powered LED Floodlight on a sturdy stand is a must have for all tradesmen.

### FEATURES

- Wide beam angle
- 4hr Battery run time
- Rechargeable Li-Ion battery
- IP65 rated
- 85~265V AC NZ power plug and 12-24V DC car plug chargers included

NOTE: Stand colour may vary.



CAT NO.	LUMENS	POWER	RUN TIME*
LEDFL-10WBATT	900	10W	4hrs
LEDFL-20WBATT	1800	20W	4hrs

\*Total run time from full charge

## PORTABLE LIGHT STANDS - 10W

This is our cost effective portable light stand, it's rugged and very durable. Engineered to withstand the inevitable bumps and knocks that portable lights endure. AC, DC and AC/DC versions available, the AC/DC version comes complete with the power supply kit so you can power it from your car, truck, or connect it direct to a battery or plug it into the main power supply. All models come in a handy carry bag.

### FEATURES

- Telescopic stand to offer a range of working heights, approximately 800mm - 1600mm
- Easy to assemble and put away, fits into small storage areas
- Lights and lead operating at a safe voltage at all times
- Long 12m lead
- 12/24V DC or 230V AC/DC (depending on the model)
- Sturdy canvas storage bag, 770x250x200mm
- Cool running temperature



CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE	NO. LIGHTS
LEDFL-PORTABLE3DC			9 - 30V DC	
LEDFL-PORTABLE3ACDC	3x900	3x10W	85~265V AC & 9-30V DC	3
LEDFL-PORTABLE3AC			85~265V AC	

## PORTABLE LIGHT STANDS - 40W

This industrial light stand (ILS) is engineered to cater for the commercial user where durability is of key importance.

### FEATURES

- Telescopic stand to offer a range of working heights, approximately 1250mm - 2500mm
- Easy to assemble and put away, fits into small storage areas
- Long 12m lead
- Power source 230V AC\*
- Cool running temperature

\*DC model available on special order



CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE	NO. LIGHTS
LEDILS-2500	2x3600	2x40W	230V AC	2

## PORTABLE LIGHT STANDS - 400W

Using a bicycle foot pump, this temporary light stand extends to 5 meters. It automatically locks in place at each extension stage with locking pins.

The 400 watt LED light has a comparable lighting level to a 1000W metal halide.

The stand is very stable, and for added stability in poor weather conditions, it is supplied with anchor pegs and straps.

This unit can be powered by mains, generator or your vehicles battery (simply connect the inverter mounted inside of the carry).

### LEDILS-5000-KIT INCLUDES:

- 400W LED light fitting
- Air extendable light stand
- Bicycle foot pump
- Quick mount light bracket
- Carry/Storage bag
- Battery leads
- Storage bag for stand, Tough plastic carry case for kit
- 400W inverter

### LEDILS-5000 INCLUDES:

- 400W LED light fitting
- Air extendable light stand
- Bicycle foot pump
- Quick mount light bracket
- Carry/Storage bag

### TECHNICAL SPECIFICATIONS

LED Sources	400W
Input Voltage	230V AC or 12V DC*
IP Rating	IP65
Dimensions	
- Stand	1.6m up to 5m when extended
- Packed in Carry Case	LxWxH 80x52x32cm
Weight	
- Stand	17.85kg
- Packed in Carry Case	32.85kg

\* 12V DC model is the same 230v unit, only it is connected to an inverter



LEDIL-5000KIT



Kit can be tailored to suit your requirements, please call to discuss.

\* 12V DC model is the same 230v unit, only it is connected to an inverter

CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE	CURRENT
LEDILS-5000	36,000	400W	230V AC	<3 AMPS
LEDILS-5000KIT	36,000	400W	230V AC or 12V DC*	<3 AMPS (AC) ~35A (DC)

## LED BATTEN LIGHT - LED4FT

The LED4FT range has been developed for use in areas commonly fitted with fluroescent battens. This range is IP65 rated, visually unobtrusive and functional. Excellent light spread, no glare and no strobe effect make them perfect for office or areas of precise work.

Widely used for ambient lighting applications including parking buildings, fuel stations, warehousing, offices, schools, retail etc.

With flexible mounting options this range offers excellent flexibility with reduced hassle. They can be fixed to any flat surface (ceiling, wall, beam etc) or hung from adjustable wires.



### TECHNICAL SPECIFICATIONS

LED Sources	45W, 70W
Input Voltage	AC (100~240V)
Power Factor	>0.9
Colour Rendering Index	WW: >80 CW: >75
Colour Temperature	WW: 4500K CW: 6000K
Working Temperature	-20°C to 45°C
IP Rating	IP65
Life Span	>30,000hrs
Materials	6063 Aluminium
Weight	5kg
Luminous Flux WW = warm white CW = cool white	45W CW = 3160lm 45W WW = 2950lm 70W CW = 4600lm 70W WW = 4320lm
Dimensions	1180x145x65mm

CAT NO.	LUMENS	COLOUR TEMPERATURE	POWER	SUPPLY VOLTAGE	CURRENT
LED4FT-45ACCW	3160	COOL WHITE	45W	100~240V AC	0.20A*
LED4FT-45ACWW	2950	WARM WHITE	45W	100~240V AC	0.20A*
LED4FT-70ACCW	4600	COOL WHITE	70W	100~240V AC	0.30A*
LED4FT-70ACWW	4320	WARM WHITE	70W	100~240V AC	0.30A*

\* AC Current rating at 230V AC

## LED WALL LIGHT - LEDWP

A robust and energy efficient, modern 'bulk head' style LED wall light for use in a wide variety of outdoor applications:

- **Public lighting** – Airports, car parks and railway stations
- **Domestic lighting** – Corridors and balconies
- **Commercial & industrial** – Walkways, loading docks and storage areas

The driver comes complete with a 2yr warranty.



### TECHNICAL SPECIFICATIONS

LED Sources	30W
Input Voltage	AC (100~240V) Frequency (50/60Hz)
Power Supply Efficiency	>90%
Power Factor	>0.95
LED Lumens	3,000
LED Lighting Efficiency	100 lm/W
Colour Rendering Index	>75
Colour Temperature	6000K
Ambient Temperature	-40°C to 70°C
IP Rating	IP65
Life Span	>50,000hrs
Eco-friendly	No UV, IR, Lead or Mercury
Materials	Die-cast Aluminium body Polycarbonate cover Anodised Aluminium reflector

CAT NO.	LED LUMENS	LED POWER	SUPPLY VOLTAGE	DIMENSIONS mm
LEDWP-30AC	3000	30W	100~240V AC	308x288x182mm

## LED CEILING PANELS

Ceiling panel lighting is common place in many educational, medical, office and retail environments.

ECOLight recessed LED ceiling panels are light weight, high powered, energy efficient and dimmable. They have upto 50% energy saving when compared to fluorescents.

Ultra slimline (1 1.5mm) and extremely robust, these panels are virtually maintenance free and fit into even the tightest of ceiling cavities.

### ACCESSORIES:

- LEDPNL-6X6-FRAME -Surface mount frame
- LEDPNL-3X12-FRAME -Surface mount frame
- LEDPNL-6X12-FRAME -Surface mount frame
- LEDPNL-DIMMER -Wall knob dimming kit
- LEDPNL-SECU-W -Recessed mount protection wire
- LEDPNL-SUSP-W -Ceiling mount suspension wire
- LEDPNL-RF-DIMM -Wall knob dimmer with remote

Panels can be recessed, surface mounted, wall mounted or suspended.



WALL MOUNTING STYLE

### TECHNICAL SPECIFICATIONS

LED Sources	595mm x 595mm 1195mm x 295mm 1195mm x 595mm	42W 42W 83W
Power Supply Efficiency	>90%	
Power Factor	>0.9	
LED Lighting Efficiency	75 lm/W	
Colour Rendering Index	Ra > 80	
Colour Temperature	[PW] Pure white [CW] Cool white	5000K 6000K
Ambient Temperature	-20°C to 45°C	
IP Rating	IP44	
Life Span	>50,000hrs	
Eco-friendly	No UV, IR, Lead or Mercury	
Materials	Aluminium Alloy Acrylic Diffuser	
Dimensions	595mm x 595mm 1195mm x 295mm 1195mm x 595mm	3.9kg 4.2kg 8kg
Dimmable	Yes, non-dimmable also available	



CEILING MOUNTING STYLE



RECESSED MOUNTING STYLE

CAT NO.	LUMENS	POWER	SUPPLY VOLTAGE*	COLOUR TEMPERATURE	DIMENSIONS mm
LEDPNL-3X12-42-PW	3000	42W	90-264V	5000K	295x1195
LEDPNL-3X12-42-CW	3100	42W	90-264V	6000K	295x1195
LEDPNL-6X6-42-PW	3000	42W	90-264V	5000K	595x595
LEDPNL-6X6-42-CW	3100	42W	90-264V	6000K	595x595
LEDPNL-6X12-83-PW	5700	83W	90-264V	5000K	595x1195
LEDPNL-6X12-83-CW	5900	83W	90-264V	6000K	595x1195

**Note:** Specify dimmable requirements with customer service at time of ordering.

## SOLAR LED KITS – FLOODLIGHTS/STREETLIGHTS

Due to the reduced energy consumption of LED lights, we are able to supply an affordable solar package to operate the ECOLight fittings. These packages are simple to install and easy to operate. Secure the solar panel and controller in place, connect all fittings and wait for the sun to go down.

### Floodlight Solar Kit – 25W: LEDSOLAR-FL25

- LEDFL11-25DC12
- 1 x 90W solar panels
- Z brackets 30mm
- MC4 connectors
- PDL WSW201 switch
- 1 x 80Ah deep-cycle battery
- 2 x mini-blade fuse holders 32V/30A with mini-blade fuse 10A
- Battery cables with lugs
- 10m of 4mm<sup>2</sup> solar twin-core cable
- 10m of 2.5m<sup>2</sup> twin-core cable
- 4mm<sup>2</sup> yellow-green earth cable
- 10pcs. Cable ties 160mm/2.5mm
- Terminal block
- 12/24V 10A solar controller

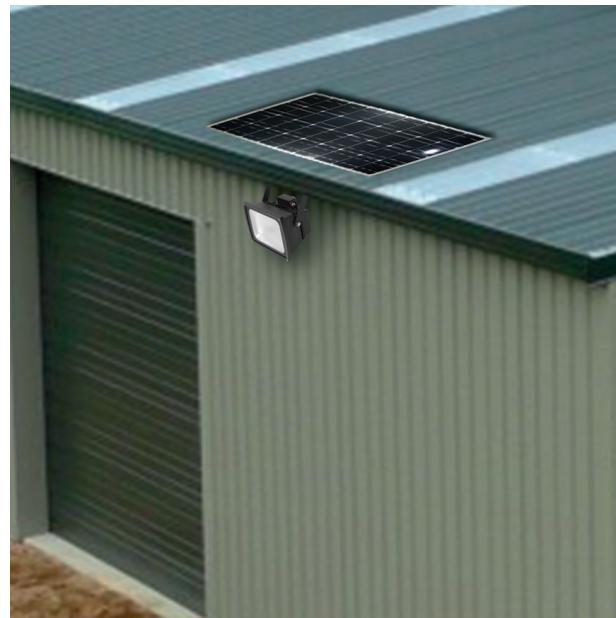
### Floodlight Solar Kit – 30W: LEDSOLAR-FL30-PIR

- LEDFL10-30PIR
- 2 x 90W solar panels
- Z brackets 30mm
- MC4 connectors
- PDL WSW201 switch
- 2 x 80Ah deep-cycle battery
- 2 x mini-blade fuse holders 32V/30A with mini-blade fuse 10A
- Battery cables with lugs
- 10mm of 4mm<sup>2</sup> twin-core cable
- 10mm of 2.5m<sup>2</sup> twin-core cable
- 4mm<sup>2</sup> yellow-green earth cable
- 10pcs. Cable ties 160mm/2.5mm
- Terminal block
- 12/24V 10A solar controller

### Streetlight Solar Kit – LEDSOLAR-ST40

- TNL0729-40DC24
- 250W solar panel
- Z brackets 30mm
- MC4 connectors
- 2 x 80Ah deep-cycle battery
- 2 x mini-blade fuse holders 32V/30A with mini-blade fuse 10A
- Battery cables with lugs
- 10m of 4mm<sup>2</sup> solar twin-core cable
- 10m of 2.5m<sup>2</sup> twin-core cable
- 4mm<sup>2</sup> yellow-green earth cable
- 10pcs. Cable ties 160mm/2.5mm
- Terminal block
- 12/24V 10A solar controller

These kits are based on systems that run all night. The solar controller can be easily programmed to run for an allocated time or times during the night. Alternatively they can operate on a light sensor – perfect for sign illumination and security lighting.



CAT NO.	TYPE	POWER	SOLAR PANEL	BATTERY
LEDSOLAR-ST40	STREET LIGHT	40W	250W	2x80Ah DEEP CYCLE
LEDSOLAR-FL25	FLOODLIGHT	25W	90W	1x80Ah DEEP CYCLE
LEDSOLAR-FL30-PIR	SENSOR FLOODLIGHT	30W	2x90W	2x80Ah DEEP CYCLE

**Note:** Custom kits are easily available on request. Contact us with your requirements.

## SOLAR PANELS

A range of high quality Monocrystalline and Polycrystalline Solar Panels in various sizes. Manufactured from the highest quality materials by Suntech - a well known manufacturer of Solar Panels worldwide.



STP250/STP255S



STP090B

TECHNICAL SPECIFICATIONS	STP090B	STP195S	STP255S	STP250	STP305
Maximum Power at STC (Pmax)	90Wp	195Wp	255Wp	250Wp	305Wp
Optimum Operating Voltage (Vmp)	18.0V	36.6V	30.8V	30.7V	36.3V
Optimum Operating Current (Imp)	5.00A	5.33A	8.28A	8.15A	8.41A
Open Circuit Voltage (Voc)	22.4V	45.4V	37.6V	37.4V	45.3V
Short Circuit Current (Isc)	5.29A	5.69A	8.46A	8.63A	8.74A
Module Efficiency	N.D.A.	15.3%	15.7%	15.4%	15.7%
Operating Module Temperature	-40 <sup>0</sup> C to +85 <sup>0</sup> C				
Max System Voltage	1000V DC	1000V DC (IEC)/600V DC (UL)			
Max Series Fuse Rating	15A		20A		
Power Tolerance	+/-5%	0/+5%			
Solar Cell	Monocrystalline			Polycrystalline	
Number of Cells	36 (4x9)	72 (6x12)	60 (6x10)	72 (6x12)	
Dimensions (mm)	1195x541x30	1580x808x35	1640x992x35	1956x992x50	
Weight (kg)	8	15.5	18.2	27	
Materials	Anodised Aluminium Alloy Frame, 3.2mm Tempered Front Glass				Anodised Aluminium Alloy Frame, 4.0mm Tempered Front Glass
Junction Box	IP65	IP67 (3 bypass diodes)			
Output Cables (mm)	H+S (12AWG) Symmetrical Lengths (-)750mm & (+)750mm	TUV (2pfg1169:2007), UL4703 4mm, Symmetrical lengths (-)1000mm & (+)1000mm	TUV (2pfg1169:2007), UL4703, UL44, 4mm, Symmetrical lengths (-)1000mm & (+)1000mm	TUV (2pfg1169:2007), UL4703, UL44, 4mm, Symmetrical lengths (-)1100mm & (+)1100mm	
Connectors	MC4				H4 (MC4 connectable)

## SUNPUMP SOLAR WATER PUMPS

Solar pumping systems provide quiet, economical and reliable stand-alone methods for pumping water that requires no fuel and very little attention. Generally, when water is needed most, is when the sun shines the brightest. Solar panels generate maximum power in full sun conditions when larger quantities of water are typically needed. Because of this natural matching effect, solar water pumping is an obvious choice over windmills and engine-driven generators for locations away from utility power, or to save on energy costs. For systems requiring 24/7 water supply, simply add battery banks to suit.

Uses are wide-ranging:

- Off-grid home pressure systems
- General water movement
- Livestock watering
- Irrigation – flood, sprinkler or drip
- Water circulation and filtration
- Pond aeration
- Desalination
- Pressure boosting
- Temporary/Re-locatable systems
- Water features
- Emergencies

Pumps can be sized to match almost any requirement to move water, ranging from deep bores to hundreds of meters up hills.

### WHEN ENQUIRING ABOUT SUNPUMPS PLEASE HAVE THE FOLLOWING INFORMATION READY (Where Applicable)

The sizing of Pumps and associated Solar Panels can only be achieved if all of the relevant information is known.

**TOTAL DAILY WATER REQUIREMENT? \_\_\_\_\_ L**

**WHAT IS THE WATER SOURCE? Bore/Well/Tank/Pool etc \_\_\_\_\_**

**IF A BORE OR WELL, WHAT IS THE PRODUCTION RATE? \_\_\_\_\_ LPM**

**DEPTH OF THE PUMP? \_\_\_\_\_ M**

**IF A BORE, WHAT IS THE DIAMETER? \_\_\_\_\_ mm**

**IS PUMPING REQUIRED OUTSIDE OF DAYLIGHT HOURS? Y/N**

**WHAT IS THE DESTINATION OF THE WATER? Tank/Pool/Irrigation etc \_\_\_\_\_**

**WHAT IS THE VERTICAL RISE? For Pipeline or Sprinkler \_\_\_\_\_ M**

**WHAT IS THE DESIRED FLOW RATE? \_\_\_\_\_**

**IS A PRESSURE SYSTEM REQUIRED? Y/N**

**IF SO, WHAT IS THE PRESSURE FIGURE? \_\_\_\_\_ PSI**

**WHAT IS THE LENGTH OF THE PIPELINE? \_\_\_\_\_ M**

**WHAT IS THE PIPE MATERIAL? \_\_\_\_\_**

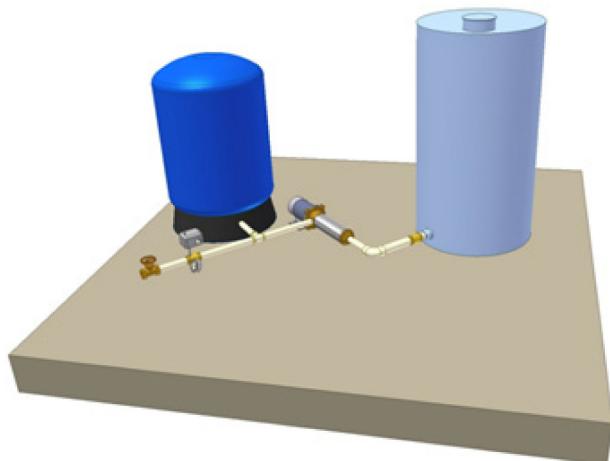
**DIAM OF PIPE \_\_\_\_\_ mm**

**DISTANCE FROM WATER SOURCE TO SOLAR ARRAY? \_\_\_\_\_ M**

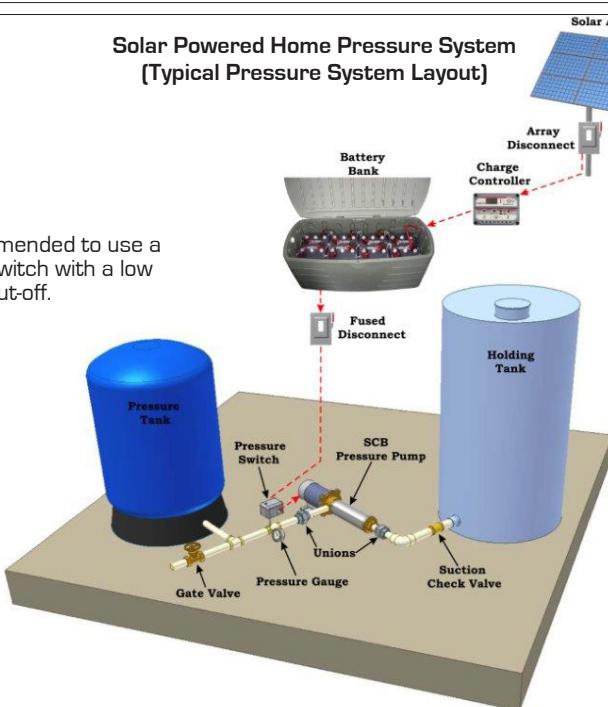
**IF CIRCULATING POOL WATER, WHAT IS THE POOL VOLUME? \_\_\_\_\_ M3**



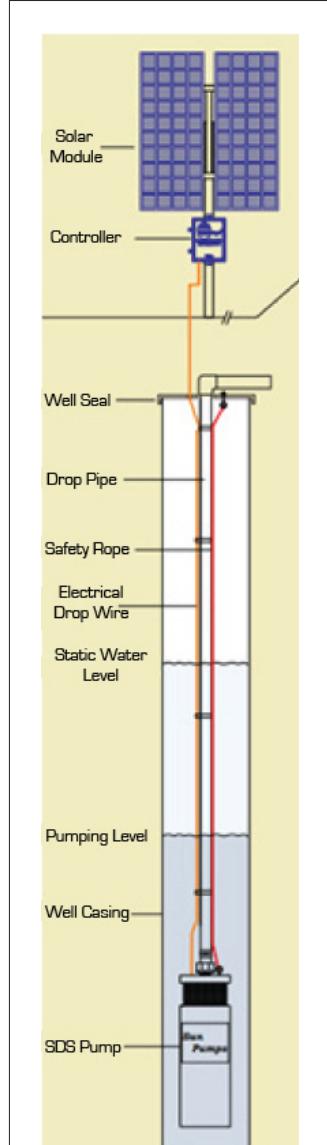
## SOLAR PUMP INSTALLATION EXAMPLES



Surface Jet Pressure Pump



Surface Pressure Pump showing Solar Panels and Tanks



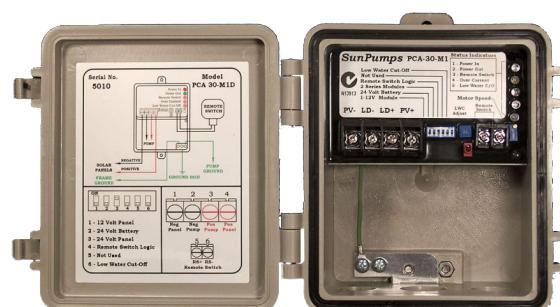
Submersed

## SUNPUMP CONTROLLERS

One of the secrets of SunPump's success in Solar Water Pumping is in their Pump Controllers.

SunPumps manufacture all of their own controllers, which can be used in systems powered by Solar Modules, Batteries or Wind.

The purpose of the controller is to maximise the Total Daily Water Delivery, while providing protection to the pump. The correct controller will allow the pump to start earlier in the morning and run later in the evening, while operating most efficiently in low power conditions and preventing the pump from running in un-safe conditions such as low water levels.



## SDS - DIAPHRAGM SUBMERSIBLE PUMP RANGE

Intended for pumping smaller volumes of water from shallow depths with delivery up to 70 Metres of working head.

12-30V DC

Low Cost, High Quality, High Efficiency

Low power requirements, from as little as 35 watts

### SDS D - DUPLEX 2 DIAPHRAGM SUBMERSIBLE

Suits 4" Bore or Well

Extremely Durable and Corrosion resistant

Constructed from 304 or 316 grade stainless steel

4.9-6.6LPM

Up to 70M Lift



### SDS T - TRIPLEX 3 DIAPHRAGM SUBMERSIBLE

Constructed from Super-strong "Ryton" plastic (which is almost as strong as alloys) plus stainless steel, this model is designed to be the most economical solution for the water pumping industry.

Suits 4" Bore or Well

Extremely Durable and Corrosion resistant

9.5-11.7LPM

Up to 70M Lift



### SDS Q - QUAD 4 DIAPHRAGM SUBMERSIBLE

Suits 5" Bore or Well

Extremely Durable and Corrosion resistant

Constructed from 304 or 316 grade stainless steel

8.5-19LPM

Up to 70M Lift



### SCS CENTRIFUGAL SUBMERSIBLE (IMPELLER TYPE)

High-power submersibles, intended for pumping higher water volumes from greater depths

High Quality Multi-stage Submersible, coupled with High Efficiency BRUSHLESS DC Motors. These are installed below the water level in a water bore, well, lake, river, or cistern. They can be used to fill an open tank or used to pressurize water systems.

These motors incorporate the latest in Rare Earth Magnets and Sensorless Motor Control technology. All control electronics are above ground, not inside the motor housing under the water, greatly increasing reliability and serviceability of the system.

Over 50 models of SCS to choose from which cover a wide range of requirements.

SCS series pumps are designed for use in stand-alone water delivery systems. They are pollution free, corrosion-free, self-lubricating and quiet. There is no better way to provide water for remote homes, small farms, villages, livestock, irrigation, as well as many other needs beyond grid power.

3/4 HP to 3.5 HP

160 - 3000 watts

60 - 240 VDC

30 - 500 LPM

Up to 300M lift

Fits into 4" - 6" Bore or Well



## SCP – CENTRIFUGAL POOL PUMP

This range is designed specifically for standalone water systems, such as swimming pool circulation, pond aeration and aquaculture, or irrigating small farms.

300-700 LPM

100-3400W

Extremely Durable and Corrosion resistant

Constructed from high performance thermo plastic, providing outstanding strength and durability. Also extremely resistant to chlorine, algae and mineral deposits.

For added protection, a strainer basket is incorporated in the suction side of the pump.

SunPumps SCP series solar powered centrifugal pool pumps with brushless DC motors are the ultimate in performance and reliability. There are two types to choose from, the CMP series with a 2" outlet and the HV series with a 2 1/2" outlet.



## SJT – JET PUMP

For medium volume, shallow depths, this range fits almost any shallow well or booster pump application.

1/3-3HP

24V DC Brush Type and 48V-240V DC Brushless

Flow rates up to 72LPM

Up to 30M lift

Available in shallow well – single pipe, or deep well – dual pipe systems.

Single pipe Jet Pump – Suction lift of 6M at sea level.

This is the type of pump used to fill open tanks for live-stock, irrigation or home use.

Small size and light weight allow easy installation by hand without requiring special tools.

7.5-72 LPM, 180-1000 Watts



## SCB – CENTRIFUGAL BOOSTER PUMP

100-3400W

Multi-stage Centrifugal – Low Power Booster, for boosting pressure from surface water.

High Quality, extremely reliable and quiet running, this pump can be used with brackish water.

Two designs:

### BATTERY BASED:

Primarily used to pressurise water in off-grid homes, small villages, reverse osmosis, drip irrigation, or anywhere pressure is required.

45-185LPM

Up to 120 PSI or up to 84M lift

### PANEL DIRECT:

50-150 LPM

Used for boosting water through long pipe-lines or up hills.

Pressure up to 100 PSI or 90M of lift



## SPB – PISTON BOOSTER PUMP

Triflex Piston Booster Pumps, used for high-lift, high-flow applications, such as boosting surface water through very long pipe-lines or up mountains, or high pressure and reverse osmosis.

11-45LPM

Up to 1000PSI or 700M of total dynamic lift.

Over 24 models to choose from, operating at 1/2 to 5 HP.

SPB Series Piston Pumps are extremely efficient and manufactured to the highest quality. The most durable pumps of their type in the solar industry.

These pumps are made to order, depending on the requirements.



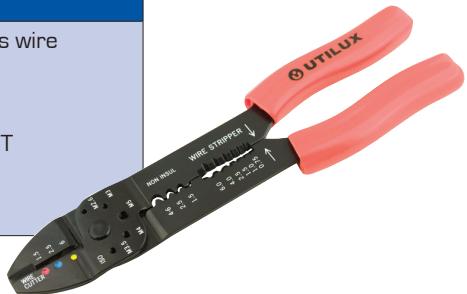
# APPLICATION TOOLING

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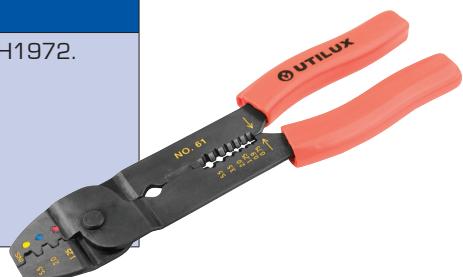
## GENERAL PURPOSE COMBINATION CRIMPER/CUTTER/STRIPPER

A range of high quality, but economically priced hand crimp tools ideal for the occasional professional user or serious hobbyist. These easy to use precision engineered tools produce a first class job and offer the user great value for money.

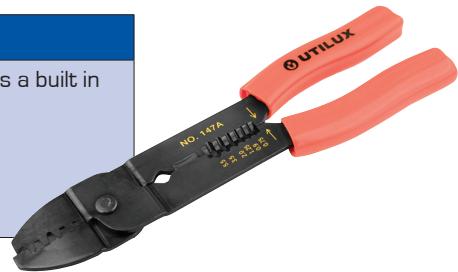
CAT NO.	DESCRIPTION
#76B/1	<p>Non-ratchet pliers for pre-insulated and un-insulated terminals. Includes wire cutting and stripping positions.</p> <p>RANGE.....0.5mm<sup>2</sup> – 4.0mm<sup>2</sup></p> <p>CRIMP TYPE.....PRE-INSULATED – OVAL UN-INSULATED – INDENT</p> <p>LENGTH.....203mm</p> <p>WEIGHT.....250g</p>



CAT NO.	DESCRIPTION
#61/1	<p>Non-ratchet pliers for open barrel, roll-in crimp type terminals such as H1972. Features a built in wire stripper and cutter.</p> <p>RANGE.....0.75mm<sup>2</sup> – 2.1mm<sup>2</sup></p> <p>CRIMP TYPE.....ROLL-IN FOR OPEN BARREL TERMINALS</p> <p>LENGTH.....210mm</p> <p>WEIGHT.....230g</p>



CAT NO.	DESCRIPTION
#147A/1	<p>Non-ratchet pliers for micro and flag QC open barrel terminals. Features a built in wire stripper and cutter.</p> <p>CRIMP TYPE.....ROLL-IN FOR OPEN BARREL TERMINALS</p> <p>LENGTH.....210mm</p> <p>WEIGHT.....230g</p>



## TERMINAL CRIMP TOOLS

CAT NO.	DESCRIPTION
#102/1	<p>Ratchet type tool for pre-insulated and supergrip terminals. The ratchet ensures a complete crimp every time. A must have tool for every tradesman.</p> <p>RANGE.....Red, Blue and Yellow pre-insulated [0.5 – 5.5mm<sup>2</sup>]  CRIMP TYPE.....Oval on conductor/Diamond on insulation  LENGTH.....230mm  WEIGHT.....550g</p>



CAT NO.	DESCRIPTION
#102B/1	<p>Low cost brass terminal crimper. The crimp achieved is a roll crimp, which supports the insulation and crimps the wire. Not suitable for flag terminals.</p> <p>RANGE.....0.75 – 6mm<sup>2</sup>  LENGTH.....230mm  WEIGHT.....500g</p>

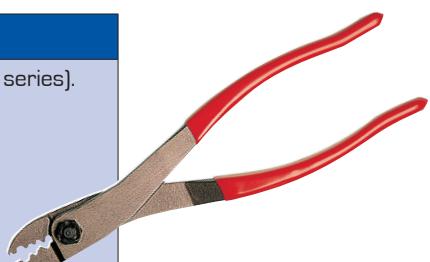


CAT NO.	DESCRIPTION
#102U/1	<p>Ratchet type tool for un-insulated terminals. The ratchet ensures a complete crimp every time. A must have tool for every tradesman.</p> <p>RANGE.....0.5mm<sup>2</sup> – 10mm<sup>2</sup>  CRIMP TYPE.....INDENT  LENGTH.....230mm  WEIGHT.....550g</p>



## COPPER LUG & LINK CRIMP TOOLS

CAT NO.	DESCRIPTION
#00/1	<p>General purpose pliers for un-insulated Copper lugs and links (CG and CK series). Simple and robust. A must for every tradesman.</p> <p>RANGE.....0.5mm<sup>2</sup> – 10mm<sup>2</sup>  CRIMP TYPE.....INDENT  LENGTH.....254mm  WEIGHT.....450g</p>



CAT NO.	DESCRIPTION
#103/1	<p>Ergonomically designed ratchet type tool for un-insulated Copper lugs and links (CG and CK series). The ratchet ensures a complete crimp every time.</p> <p>RANGE.....0.5mm<sup>2</sup> – 16mm<sup>2</sup>  CRIMP TYPE.....INDENT  LENGTH.....230mm  WEIGHT.....550g</p>



CAT NO.	DESCRIPTION
#16B/1	<p>Ratchet type tool for un-insulated Copper lugs (CG series). The long handles require less crimping effort.</p> <p>RANGE.....0.5 – 10mm<sup>2</sup></p> <p>CRIMP TYPE.....INDENT</p> <p>LENGTH.....250mm</p> <p>WEIGHT .....700g</p>



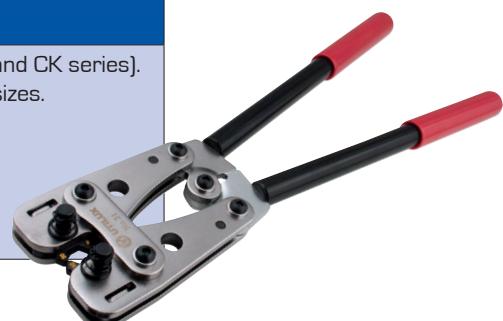
CAT NO.	DESCRIPTION
#18/1	<p>Ratchet type tool for un-insulated Copper lugs (CG series). The long handles require less crimping effort.</p> <p>RANGE.....5 – 16mm<sup>2</sup></p> <p>CRIMP TYPE.....INDENT</p> <p>LENGTH.....330mm</p> <p>WEIGHT .....700g</p>



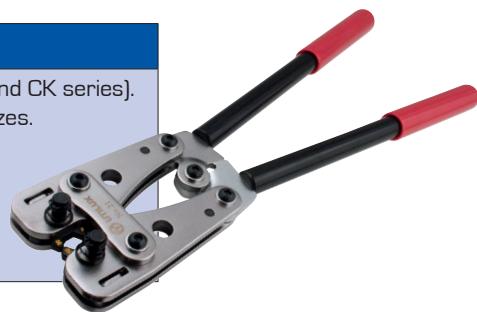
CAT NO.	DESCRIPTION
#24/1	<p>Ratchet type tool for un-insulated Copper lugs and links (CG and CK series).</p> <p>RANGE.....6 – 25mm<sup>2</sup></p> <p>CRIMP TYPE.....INDENT</p> <p>LENGTH.....285mm</p> <p>WEIGHT .....550g</p>



CAT NO.	DESCRIPTION
#21/1	<p>Hand operated, mechanical lever tool for Copper lugs and links (CG and CK series). Features built in, selectable crimp die set for a range of lug and link sizes.</p> <p>RANGE.....6mm<sup>2</sup> – 50mm<sup>2</sup></p> <p>CRIMP TYPE.....HEXAGONAL</p> <p>LENGTH.....410mm</p> <p>WEIGHT .....1.4kg</p>



CAT NO.	DESCRIPTION
#22/1	<p>Hand operated, mechanical lever tool for Copper lugs and links (CG and CK series). Features built-in selectable crimp die set for a range of lug and link sizes.</p> <p>RANGE.....6mm<sup>2</sup> – 120mm<sup>2</sup> CRIMP TYPE.....HEXAGONAL LENGTH .....670mm WEIGHT.....3.9kg</p>



CAT NO.	DESCRIPTION
#20/1	<p>Mechanical crimper for Copper lugs and links (CG and CK series). Dial adjustable crimp depth with cable size indicator.</p> <p>RANGE.....10mm<sup>2</sup> – 95mm<sup>2</sup> CRIMP TYPE.....INDENT, DEPTH ADJUSTABLE LENGTH .....410mm WEIGHT .....3.05kg</p>



## HYDRAULIC CRIMP TOOLS

CAT NO.	DESCRIPTION
HYCP-4413	<p>12T hand operated large head compression tool. Durable lightweight fibreglass handles, automatic pressure conversion and operating motion, rotating head and two stage hydraulic system make this tool faster and easier to use. Comes complete with sturdy carry case and accepts standard 12T shell dies.</p> <p>JAW SIZE.....44mm RANGE.....Up to 400mm<sup>2</sup> Cu LENGTH .....641mm WEIGHT.....7.6kg</p>



CAT NO.	DESCRIPTION
HEC-44	<p>12T battery operated large head compression tool. Pistol grip design and rotating head make crimping a breeze. Comes complete with two Ni-MH batteries, charger and handy carry case. Accepts standard 12T shell dies.</p> <p>JAW SIZE.....44mm RANGE.....Up to 400mm<sup>2</sup> Cu HEIGHT .....363mm WEIGHT.....7.8kg (includes battery)</p>



## BOOTLACE CRIMP TOOLS

CAT NO.	DESCRIPTION
	Non-ratchet pliers for Bootlace ferrules. Simple and robust.
#113/1	RANGE.....0.5mm <sup>2</sup> - 2.5mm <sup>2</sup>
	CRIMP TYPE.....INDENT
	LENGTH.....145mm
	WEIGHT.....200g



CAT NO.	DESCRIPTION
	Low cost tool with a huge crimp range, for bootlace ferrules. Ratchet control for crimp consistency, the ratchet is adjustable to compensate for tool wear.
#112/1	RANGE..... 0.5 - 10mm <sup>2</sup>
	LENGTH.....203mm
	WEIGHT.....400g



CAT NO.	DESCRIPTION
	Ergonomically designed ratchet type tool for Bootlace ferrules. The ratchet ensures a complete crimp every time.
#114/1	RANGE.....10mm <sup>2</sup> - 35mm <sup>2</sup>
	CRIMP TYPE.....INDENT
	LENGTH.....240mm
	WEIGHT.....650g



CAT NO.	DESCRIPTION
	The Die-less Bootlace Ferrule Crimper — unique crimp action, which automatically crimps a range of terminal sizes. Insert the wire and ferrule, the tool self adjusts and crimps. Ratchet control for crimp consistency.
SABC6	0.25 - 6mm <sup>2</sup>
SABC10	0.75 - 10mm <sup>2</sup>
SABC16	4 - 16mm <sup>2</sup>



## UTILUX MS-TELECOM SLEEVE CRIMP TOOL

Available in various crimp groove size combinations. The complete range is adjustable and robust. All models are supplied complete with adjusting key and "Go, No Go" gauge to ensure a perfect crimp every time.

- Designed for use with Utilux MS - Telecom sleeves

CAT NO.	CRIMP GROOVE SIZES mm
TY635794/1	6.35 & 7.94
TR794952	7.94 & 9.52
TR9521270	9.52 & 12.70



## CRIMPING DIES

Utilux crimping dies for Aluminium and Copper connectors are precision engineered from EN26 high tensile steel, oil hardened to 50-52 Rockwell C, ensuring long life and minimal die wear. Each hexagon die set is engraved with 'Utilux' on one of the die faces,

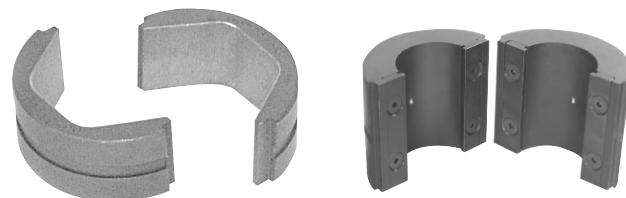
### DIE HOLDERS

- Available on request
- Special die holders are available that allow the use of '38' series dies in the #408 tool.

### THE RANGE OF DIES INCLUDES

- Hexagonal die sets for precision crimping of Copper and Aluminium connectors
- Nest and indent die sets for special Aluminium applications
- Special 'steel' dies for crimping steel sleeves

and the die part number on the other, leaving an indent on the crimp for easy inspection and verification. The selection of the die type required depends on the connector to be crimped, and the tool to be used. Special size dies made to order.



## 12 TONNE DIES

### HEXAGONAL CRIMP DIES - COPPER

CAT NO.	COPPER CONDUCTOR SIZE (mm <sup>2</sup> )	COPPER DIE A/F (mm)
1#38-44CU	6	4.4
1#38-57CU	10	5.7
1#38-63CU	16	6.3
1#38-70CU	20	7.0
1#38-77CU	25	7.7
1#38-92CU	35	9.2
1#38-104CU	50	10.4
1#38-115CU	70	11.5
1#38-142CU	95	14.2
1#38-165CU	120	16.5
1#38-183CU	150	18.3
1#38-200CU	185	20.0
1#38-231CU	240	23.1
1#38-260CU	300	26.0



### HEXAGONAL CRIMP DIES - ALUMINIUM

CAT NO.	ALUMINIUM CONDUCTOR SIZE mm <sup>2</sup>	ALUMINIUM DIE A/F mm
1#38-90AL	6-35	9.0
1#38-132AL	50-70	13.2
1#38-173AL	95-120	17.3
1#38-220AL	150-185	21.0
1#38-284AL	240-300	28.4

## HEXAGONAL CRIMP DIES - ALUMINIUM OVERHEAD LINKS

CAT NO.	TO CRIMP LINK #	ALUMINIUM DIE A/F mm
HT-A2	2	9.6
HT-A3	3	12.40
HT-A4	4	13.75
HT-A5	5	17.90
HT-A6	6	22.00
HT-A7	7	25.40
HT-A8	8	28.20
HT-A9	9	32.20
HT-TRIDIE	TRIDIE	32.20



## HEXAGONAL CRIMP DIES - HALF HEX (FOR FLEXIBLE CABLES)

CAT NO.	HEX DIE	FLAT DIE	CONDUCTOR SIZE mm <sup>2</sup>
1#38-98HHEX17	1#38-98CU	1#38-FLAT17	16
1#38-122HHEX17	1#38-122CU	1#38-FLAT17	25
1#38-130HHEX17	1#38-130CU	1#38-FLAT17	35
1#38-153HHEX17	1#38-153CU	1#38-FLAT17	50
1#38-183HHEX14	1#38-183CU	1#38-FLAT14	70
1#38-220HHEX14	1#38-220CU	1#38-FLAT14	95
1#38-245HHEX14	1#38-245CU	1#38-FLAT14	120



**Note:** Flat dies are available individually. For anything larger than 120mm<sup>2</sup> please contact customer services.

## CRIMP DIES - 'C' CONNECTORS

CAT NO.	CABLE RANGE mm <sup>2</sup>
ZT20DIE/1	14-20
ZT26DIE/1	21-26
ZT44DIE/1	27-44
ZT60DIE/1	45-60
ZT76DIE/1	61-76
ZT98DIE/1	77-98
ZT122DIE/1	99-122
ZT154DIE/1	123-154
ZT190DIE/1	155-190
ZT240DIE/1	191-240
ZT288DIE/1	241-288
ZT365DIE/1	289-365



## 60 TONNE DIES

### HEXAGONAL CRIMP DIES - COPPER & ALUMINIUM

CAT NO.	CONDUCTOR	SIZE mm <sup>2</sup>	ALUMINIUM DIE A/F mm
1#40-130CU	COPPER	70	13.0
1#40-142CU		95	14.2
1#40-165CU		120	16.5
1#40-185CU		150	18.5
1#40-200CU		185	20.0
1#40-231CU		240	23.1
1#40-260CU		300	26.0
1#40-281CU		400	28.1
1#40-310CU		500	31.0
1#40-370CU		630	37.0
1#40-432CU		800	43.2
1#40-480CU		1000	48.0
1#40-172AL		95, 120	17.2
1#40-220AL		150, 185	22.0
1#40-283AL	ALUMINIUM	240, 300	28.3
1#40-390AL		400, 500	39.0
1#40-432AL		630	43.2



## CORDLESS IMPACT WRENCH

### FEATURES

- Fan-cooled rare-earth magnet motor
- Convenient belt hook with integrated LED work light
- Externally accessible carbon brush and replaceable armature
- Stable compartmented carry case

### INCLUDES

- 1 Battery charger
- 2 Ni-MH battery 12V/2,6 Ah
- 1 Carry case
- 1 Installation instruction
- 1/2" hexagon socket sizes metric 10, 13, 17, 19, 22, 27
- 1 Adaptor to 1/4" hexagon drive
- 2 hex head wrenches (Allen keys) metric 5, 6

### FEATURES

- Simplified, safer and faster installation
- No additional device needed
- 1700g (~3.8 lbs) light, ergonomic and practical design
- Can be used for shear-head bolts up to 100Nm
- Powerful battery sufficient for approximately. 20 four-bolted mechanical connectors per battery charging cycle
- Everything included for all standard mechanical connectors and lugs



CAT NO.	DESCRIPTION
IT-1000-033	CORDLESS IMPACT WRENCH FOR THE INSTALLATION OF MECHANICAL CONNECTORS AND LUGS USING SHEAR-HEAD BOLTS

## UNIVERSAL HOLDING TOOLS FOR MECHANICAL CONNECTORS

TransNet offers both an insulated and unsolicited holding tool for Mechanical Connectors. Both can be used for most connector

- Large easy grip handle
- Recommended for use on most sizes of connector to eliminate possible core 'cranking'
- IT-10000-019 has a large jaw opening to accommodate for a wide range of mechanical connectors
- 233 is 1000V rated



CAT NO.	DESCRIPTION
IT-10000-019	UNIVERSAL HOLDING TOOL FOR MECHANICAL CONNECTORS
223	INSULATED MECHANICAL CONNECTOR HOLDER 1000V

## CONDUIT CUTTERS

CAT NO.	DESCRIPTION
CC32	High quality conduit cutter for cutting PVC conduit and duct. This tool is supplied with a flat bed attachment for cutting duct. RANGE.....Up - 32mm OD. LENGTH.....195mm WEIGHT.....320g

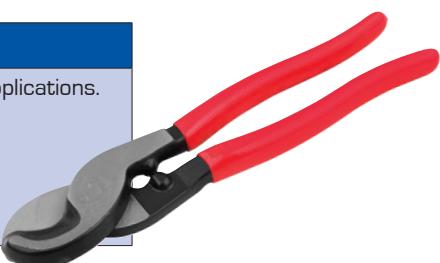


CAT NO.	DESCRIPTION
CC42	High quality conduit cutter, for cutting PVC conduit and duct. Features a stainless steel cutting blade. RANGE.....Up - 42mm OD. LENGTH.....215mm WEIGHT.....360g



## CABLE CUTTERS

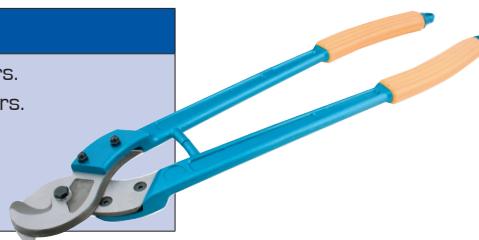
CAT NO.	DESCRIPTION
#110/1	Small single hand operated parrot beak style cutter, ideal for general applications. Precision blades make this tool ideal for cutting flexible Copper cables. RANGE.....6 - 70mm <sup>2</sup> LENGTH.....240mm WEIGHT.....460g



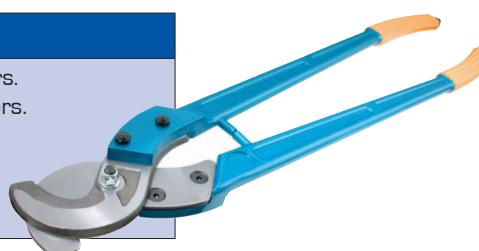
CAT NO.	DESCRIPTION
#144/1	Parrot beak style cable cutter for Copper and Aluminium conductors. RANGE.....Up - 125mm <sup>2</sup> LENGTH.....300mm WEIGHT.....700g



CAT NO.	DESCRIPTION
#140/1	Parrot beak style cable cutter for Copper and Aluminium conductors. Replacement blades available. Not for use with steel core conductors. RANGE.....Up - 240mm <sup>2</sup> LENGTH.....610mm WEIGHT.....1.8kg



CAT NO.	DESCRIPTION
#141/1	Parrot beak style cable cutter for Copper and Aluminium conductors. Replacement blades available. Not for use with Steel core conductors. RANGE.....Up - 500mm <sup>2</sup> LENGTH.....805mm WEIGHT.....2.8kg



## RATCHET CABLE CUTTERS

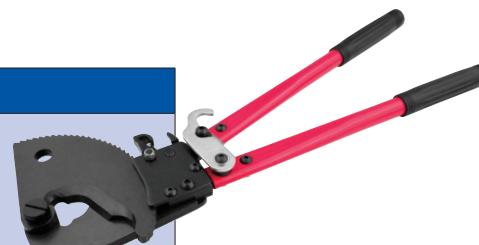
CAT NO.	DESCRIPTION
200126	Open head ratchet cutter for AL and CU cable up to 34mm OD. Suitable for one handed operation. with optimised lever transmission RANGE.....34mmOD, 185mm <sup>2</sup> round, 240mm <sup>2</sup> Sector LENGTH.....330mm Long WEIGHT.....1.54kg



CAT NO.	DESCRIPTION
200112	Handy one or two hand tool with smooth-running and robust drive technology for everyday use up to 52mm Ø, 400mm <sup>2</sup> AL and CU cable. All moving parts made from hardened steel. Not suitable for Steel. LENGTH.....320mm WEIGHT .....1.1kg

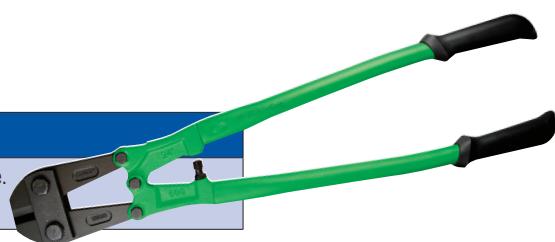


CAT NO.	DESCRIPTION
#166/1	Ratchet cable cutter suitable for ACSR up to 16mm OD. A robust ratchet cutter that's easy to use. LENGTH.....465mm WEIGHT.....1.55kg



## BOLT CUTTERS

CAT NO.	DESCRIPTION
200174	Heavy duty bolt cutter, long handles designed for ease of use. LENGTH.....600mm



## SIDE CUTTERS

CAT NO.	DESCRIPTION
210068	Alloyed carbon steel, cutting edges, induction hardened, for soft & hard wire. Reinforced handles with slip protection. LENGTH.....165mm Long (210068)



CAT NO.	DESCRIPTION
210157	Alloyed carbon steel, cutting edges, induction hardened, for soft & hard wire. Reinforced handles with slip protection.
210158	LENGTH.....175mm Long (210157) 205mm Long (210158)



## CABLE STRIPPERS

Safe and easy to use, this innovative range of tools is the ideal solution to a variety of cable stripping applications.

CAT NO.	DESCRIPTION
#161/1	Economical cable stripper. RANGE.....8-25mm OD. LENGTH.....135mm WEIGHT.....100g



CAT NO.	DESCRIPTION
#162/1	Economical cable stripper. RANGE.....28-35mm OD. LENGTH.....155mm WEIGHT.....100g



CAT NO.	DESCRIPTION
#163/1	Rotary action cable stripper. Economical with straight blade. RANGE.....8-28mm OD. LENGTH.....187mm WEIGHT.....100g



CAT NO.	DESCRIPTION
#106/1	Coaxial and single conductor wire stripper LENGTH.....125mm WEIGHT.....100g



CAT NO.	DESCRIPTION
HRIPS	For safe removal of cable sheaths. Pan head stops damage to inner core and accidental cuts to the user. A safer alternative to using a knife. Spare Blade Cat No. is HRIPS/B



CAT NO.	DESCRIPTION
210644	Economical spring loaded cable end stripper. Multi slotted head for various size cables. Handle has slip protection. LENGTH.....160mm



CAT NO.	DESCRIPTION
#118/1	Self adjusting wire cutter stripper. RANGE.....0.2-6mm <sup>2</sup> LENGTH.....172mm WEIGHT.....220g



CAT NO.	DESCRIPTION
210691	Cable end stripper.....0.5-2.0mm
210692	Cable end stripper.....1.0-4.0mm



CAT NO.	DESCRIPTION
#90/1	Low cost cable end stripper which is spring loaded with graduated slots. Conductor stripping range. Tried and tested design. Built-in depth gauge RANGE.....0.13-6mm <sup>2</sup>

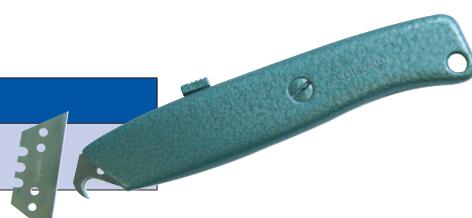


CAT NO.	DESCRIPTION
KMS-K	Universal Cable Stripper for external insulation. Designed to strip ends and midspan. No damage to what is under the outer sheath RANGE.....0-25mm



## KNIVES

CAT NO.	DESCRIPTION
BOXKNIFE	Manufactured from di-cast Zinc., comes with 4 straight blades & 1 hook blade



## CAT NO.

## DESCRIPTION

LE-325	Work Knife in Holster. Heavy duty knife supplied in holster with safety lock.
	<ul style="list-style-type: none"> <li>• High Carbon Steel, heat treated, double edged blade</li> <li>• Holder has sharpener and belt loop for attaching to tool belt</li> <li>• Safety lock button on holder</li> </ul>
	LENGTH.....234mm (blade 80mm)

WEIGHT.....150g (250g on holder)



## SCREWDRIVERS &amp; SCREWDRIVER SETS

## CAT NO.

## DESCRIPTION

102612	#1 x 80mm Pozi drive screwdriver.
102614	#2 x 100mm Pozi drive screwdriver.
102616	#3 X 150mm Pozi drive screwdriver.



## CAT NO.

## DESCRIPTION

104000	7 piece ESD electronic screwdriver set, supplied in handy storage box.
	CONTENTS.....Flat - 1.6x50, 2.0x50, 2.4x50, 3.0x50 Phillips - 1.0 and 00x50



## CAT NO.

## DESCRIPTION

104006	58 piece ratchet screwdriver set with interchangeable bits and a flex head. For use with 1/4" bits
--------	--



## FILE

## CAT NO.

## DESCRIPTION

190130	Bastard cut 1 hand file, 5 piece pack, round, square, flat, half round and triangular shapes
--------	--



## ADJUSTABLE WRENCHES

An industrial adjustable wrench, made of Chrome vanadium steel, forged, chromed and made to DIN 3117 requirements. The wider jaw opening increases the range of bolt sizes to be worked on. The handle provides a comfortable hand fit.

CAT NO.	LENGTH	SIZE mm
110590	150mm (6")	6-19
110592	200mm (8")	9-24
110594	240mm (10")	10-29
110596	300mm (12")	10-34



## PLIERS

CAT NO.	DESCRIPTION
210052	Alloyed carbon steel, forged and annealed. Cutting edges are induction hardened and comfortable handle offers slip protection.
210053	LENGTH.....165mm (210052)
210054	185mm (210053) 205mm (210054)



CAT NO.	DESCRIPTION
210394	Long nose pliers with side cutter, cutting edges are induction hardened. For soft & hard wire they have comfortable handles with slip protection.
210396	LENGTH.....170mm (210394) 200mm (210396)



CAT NO.	DESCRIPTION
210584	Heavy duty water pump pliers. Curved jaws, gripping chuck, self-locking nut and non slip handles.
210618	LENGTH.....250mm (210584) 300mm (210618)



CAT NO.	DESCRIPTION
210562	Power Grip pliers, drop forged chrome vanadium jaws, adjustable screw, quick release lever and wire cutter



## CABLE TIE TENSIONING TOOLS

CAT NO.	DESCRIPTION
#116/1	Manual cut off, suitable for all Stainless Steel cable ties. LENGTH.....210mm WEIGHT.....570g



CAT NO.	DESCRIPTION
CTTT	Automatically tensions and cuts Stainless Steel cable ties in one operation. Adjustable tension for standard and heavy-duty ties. Low friction to ensure reduced effort. LENGTH.....180mm WEIGHT.....660g



## BAND STRAP TOOL

CAT NO.	DESCRIPTION
#46-TOOL	Tensions and secures band strap in place when buckle is applied. Manufactured from high tensile steel. Machine threaded tension screw. One tool for all band widths.



## GAS SOLDERING IRONS

- Temperature ranges from 200°C to 1300°C in blow torch mode
- Adjustable heat output equivalent to 20 to 100 watts (135W for the pro)
- Gas fill last up to 90 minutes in soldering mode (180min for the pro)
- Translucent gas tank for visible fill level
- Refillable from standard butane gas
- Up to 10 interchangeable tips and accessories
- Metal catalyst offering up to 2000 hours soldering
- Extra long life nickel plated steel tip performing 300,000 applications

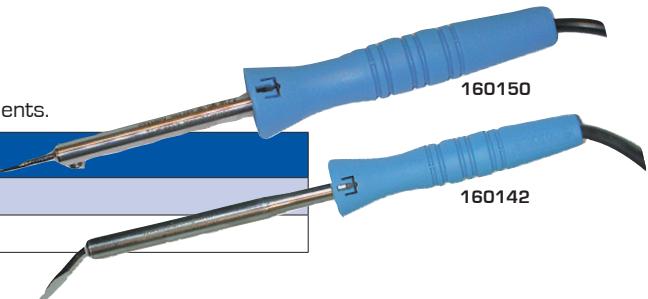
CAT NO.	DESCRIPTION
VULKP100KIT	P100 Gas Soldering Iron Kit



## ELECTRIC SOLDERING IRONS

General purpose soldering Iron. Stainless steel barrel and ceramic elements.

CAT NO.	DESCRIPTION
160150	Electric Soldering Iron 30W
160142	Electric Soldering Iron 60W, angled tip



## HACKSAW

CAT NO.	DESCRIPTION
200304	Heavy duty hacksaw with an ergonomic handle and rubber grip
200310	Hacksaw blades, single sided HSS-Bi-metal



## HAMMER - FIBREGLASS HANDLE

CAT NO.	DESCRIPTION
180323	16oz claw hammer with fibreglass handle, high carbon steel head and a sturdy rubber hand grip.



## CAULKING GUN

CAT NO.	DESCRIPTION
CG	Accepts standard cartridges and has a quick release to remove spent cartridges.



## MEASURING WHEEL

CAT NO.	DESCRIPTION
MWHEEL	Measuring Wheel In Handy Carry Case Up To 10,000m Capacity.



## MEASURING TAPE

CAT NO.	DESCRIPTION
240012	5m tape measure, can be easily handled with one hand. An ergonomic design to fit the users hand easily.
240022	30m long measuring tape with fibreglass tape.
240024	50m long measuring tape with fibreglass tape.



## CHALK LINE

CAT NO.	DESCRIPTION
150019	Chalkline roller, 15m Line.



## ALLEN KEY SETS

CAT NO.	DESCRIPTION
100634	Metric Allen Key set - 7 pieces 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10mm.
100636	Imperial Allen Key set - 7 pieces 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8"



## PLASTIC STORAGE BOX - MULTIPLE COMPARTMENT

CAT NO.	DESCRIPTION
220131	Handy storage box with multiple compartments. Ideal for screws, fasteners and items that need differing storage sizes. DIMENSIONS.....420W x 65H x 335D



## LV JUMPERS

CAT NO.	DESCRIPTION
JUMP/SET	LV Jumpers made to order in a range of conductor sizes and lengths. <b>WHEN ORDERING PLEASE SPECIFY:</b> <ul style="list-style-type: none"> <li>Conductor Size</li> <li>Jumper Lead Length</li> </ul>



## TOOL POUCHES

- Designed in New Zealand for electricians and line mechanics
- Strong leather construction
- Strengthened seams for long life
- Nylon belt with plastic buckle (leather belt available on request)
- Space for all the essential tools you need with you

TOOLBELTSPARKY



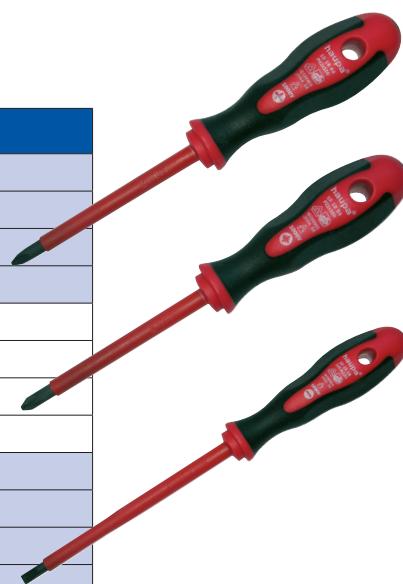
CAT NO.	DESCRIPTION
TOOLBELTLINEY	Lineman tool pouch with deep pockets for larger tools, Nylon belt and clip
TOOLBELTSPARKY	Tool pouch for general electrician, Nylon belt and clip

TOOLBELTLINEY

## 1000V INSULATED TOOLS

### 1000V SCREWDRIVERS

CAT NO.	TYPE	SIZE
101940	PHILLIPS	#0 x 60mm
101942		#1 x 80mm
101944		#2 x 100mm
101946		#3 x 150mm
101950	POZI	#0 x 60mm
101952		#1 x 80mm
101954		#2 x 100mm
101956		#3 x 150mm
101910	SLOTTED	2.5 x 75mm
101912		3.0 x 100mm
101916		4.0 x 100mm
101918		5.5 x 125mm
101920		6.5 x 150mm



### 1000V SCREWDRIVER SET

Insulated Screwdrivers with two component handles and black tips.

Produced and tested according to EN/IEC 60900:2004 standards.

Approved for live working up to 1000V AC.

CAT NO.	DESCRIPTION
101999	6 Piece 1000V rated Phillips head screw drive set
101999/PZ	6 Piece 1000V rated Pozidrive head screw drive set



### 1000V TOOL COMBO KITS

Insulated Screwdrivers and Pliers with two component handles for

better grip. Produced and tested according to EN/IEC 60900:2004

standards. Approved for live working up to 1000V AC.

CAT NO.	DESCRIPTION
220392/Z1	12PC Haupa Syscon 1000V Plier and Screwdriver Set, in handy plastic case
220392/Z2	15PC VDE 1000V Haupa Plier and Screwdriver Set, in handy plastic case



CAT NO.	DESCRIPTION
220123	4 Piece insulated plier set, all produced and tested according to IEC 60900:2004. Approved for live working up to 1000V AC. Kit contains: 211200.....Combination Plier 211204.....Side Cutter 211208.....Long Nose Plier 211214.....Wire Stripper Plier



## 1000V COMBINATION PLIERS

CAT NO.	DESCRIPTION
100-160	1000V Combination Pliers 160mm
100-205	1000V Combination Pliers 200mm
100-250	1000V Combination Pliers 250mm



CAT NO.	DESCRIPTION
211200	Insulated combination pliers. Approved for live working up to 1000V AC.
211202	LENGTH.....185mm (211200) 205mm (211202)



## 1000V LONG NOSE PLIERS

CAT NO.	DESCRIPTION
104-200	1000V Long Nose Pliers 200mm



CAT NO.	DESCRIPTION
211208	Insulated long nose pliers. Approved for live working up to 1000V AC. LENGTH.....200mm



## 1000V WATER PUMP PLIERS

- DIN ISO 5746
- Forged and Oil Hardened
- Suitable for Hard Wire Cutting

CAT NO.	DESCRIPTION
116-240	1000V Waterpump Pliers 240mm
116-300	1000V Waterpump Pliers 300mm



## 1000V CABLE STRIPPER

CAT NO.	DESCRIPTION
211214	1000V insulated 'V' blade stripper with cutting depth adjustment



## 1000V SIDE CUTTERS

- DIN ISO 5746
- Suitable for Hard Wire Cutting

CAT NO.	DESCRIPTION
112-180	1000V Side Cutters, 180mm



CAT NO.	DESCRIPTION
211204	Insulated side cutting pliers, Approved for live working up to 1000V AC.
211206	LENGTH.....165mm (211204) 185mm (211206)



## 1000V DOUBLE BLADE CUTTERS

- Single handed use
- For Copper and Aluminium
- Multi wire up to 50mm<sup>2</sup>

CAT NO.	DESCRIPTION
123	1000V Double Blade Cutters, 180mm



## 1000V PARROT BEAK CUTTERS

- Easy Cutting
- For Copper and Aluminium
- Multi wire up to 500mm<sup>2</sup>

CAT NO.	DESCRIPTION
125-240	1000V Parrot Beak Cutters, 180mm



## 1000V OPEN ENDED SPANNERS

- DIN 7446
- Forged from chrome vanadium steel
- Offset 15°

CAT NO.	DESCRIPTION
200-10	1000V Insulated Open-Ended Spanner 10mm
200-11	1000V Insulated Open-Ended Spanner 11mm
200-13	1000V Insulated Open-Ended Spanner 13mm
200-16	1000V Insulated Open-Ended Spanner 16mm
200-17	1000V Insulated Open-Ended Spanner 17mm
200-18	1000V Insulated Open-Ended Spanner 18mm
200-19	1000V Insulated Open-Ended Spanner 19mm
200-22	1000V Insulated Open-Ended Spanner 22mm
200-24	1000V Insulated Open-Ended Spanner 24mm



## 1000V RING SPANNERS

- DIN 7447
- Forged from chrome vanadium steel
- Deep crank

CAT NO.	DESCRIPTION
210-10	1000V Insulated Ring Spanner 10mm
210-13	1000V Insulated Ring Spanner 13mm
210-17	1000V Insulated Ring Spanner 17mm
210-19	1000V Insulated Ring Spanner 19mm
210-22	1000V Insulated Ring Spanner 22mm



## 1000V RATCHET RING SPANNERS

- Available in 10-19mm
- AF Available on request

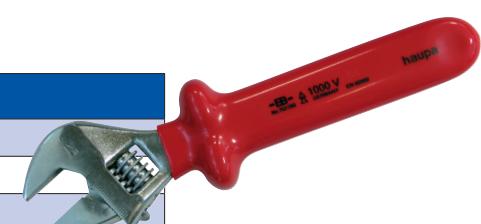
CAT NO.	DESCRIPTION
212-10	1000V Ratchet Ring Spanner 10mm
212-11	1000V Ratchet Ring Spanner 11mm
212-13	1000V Ratchet Ring Spanner 13mm
212-14	1000V Ratchet Ring Spanner 14mm
212-15	1000V Ratchet Ring Spanner 15mm
212-16	1000V Ratchet Ring Spanner 16mm
212-17	1000V Ratchet Ring Spanner 17mm
212-18	1000V Ratchet Ring Spanner 18mm
212-19	1000V Ratchet Ring Spanner 19mm



## 1000V ADJUSTABLE SPANNER

- Available in other lengths on request
- 762 - Chrome and 760 - BAHCO versions

CAT NO.	DESCRIPTION
760-200	1000V Adjustable Spanner 200mm long
760-250	1000V Adjustable Spanner 250mm long
760-300	1000V Adjustable Spanner 300mm long



## 1000V CONNECTOR HOLDING TOOL

CAT NO.	DESCRIPTION
223	1000V Insulated mechanical connector holding tool



## 1000V REVERSIBLE RATCHET

CAT NO.	DESCRIPTION
280-2	1000V Insulated Reversible Ratchet 1/2" Drive



## 1000V EXTENSION BARS

- DIN 7434
- Made from chrome vanadium steel
- With fixing device to avoid accidental loosening of the driving and insert tools
- 310 (125) is equipped with a continuous bore which allows the use of hexagonal inserts

CAT NO.	DESCRIPTION
310-125	1000V Extension Bar 1/2" - 125mm
310-250	1000V Extension Bar 1/2" - 250mm



## 1000V SOCKET SET

CAT NO.	DESCRIPTION
RTL-SS	1000V Socket Set In Handy Storage Box. 10,11,13,14,17,19mm Sockets, Extension Bar & Ratchet Handle.



## 1000V 6-POINT SOCKETS

- DIN 7448
- 1/2" - Square Drive
- Chrome vanadium steel
- Forged, oil-hardened

CAT NO.	DESCRIPTION
316-10	1000V Insulated Socket 1/2" Drive 10mm
316-13	1000V Insulated Socket 1/2" Drive 13mm
316-15	1000V Insulated Socket 1/2" Drive 14 & 15mm
316-16	1000V Insulated Socket 1/2" Drive 16mm
316-17	1000V Insulated Socket 1/2" Drive 17mm
316-18	1000V Insulated Socket 1/2" Drive 18mm
316-19	1000V Insulated Socket 1/2" Drive 19mm
316-21	1000V Insulated Socket 1/2" Drive 21 & 22mm



## 1000V ALLEN KEY SOCKET

CAT NO.	DESCRIPTION
IT/355/4MM100	1000V Allen Key Socket 4mm
IT/355/5MM100	1000V Allen Key Socket 5mm
IT/335/6MM100	1000V Allen Key Socket 6mm
IT/355/8MM100	1000V Allen Key Socket 8mm
IT/355/10MM100	1000V Allen Key Socket 10mm



## 1000V ALLEN KEY T-BAR

CAT NO.	DESCRIPTION
IT/360/4MM	1000V Insulated Allen Key T-Bar 4mm
IT/360/5MM	1000V Insulated Allen Key T-Bar 5mm
IT/360/6MM	1000V Insulated Allen Key T-Bar 6mm
IT/360/8MM	1000V Insulated Allen Key T-Bar 8mm



## 1000V CABLE STRIPPING KNIFE

CAT NO.	DESCRIPTION
503	1000V Cable Stripping Knife



## 1000V INSULATION STRIPPING KNIFE

CAT NO.	DESCRIPTION
505	1000V Strip Knife



## 1000V ELECTRICIANS KNIFE

CAT NO.	DESCRIPTION
520	1000V Electricians Knife



## 1000V CABLE KNIFE

CAT NO.	DESCRIPTION
530	1000V Cable Knife - Stripper



# RUBBER INSULATING GLOVES & EQUIPMENT

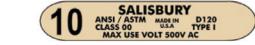
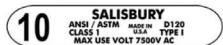
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Cotton Glove Liner	219
ACCESSORIES	PAGE
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Storage Bags	220
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Torapoli Pipe – Tiger Tails	220



## PROTECTIVE RUBBER EQUIPMENT LABELLING CHART

Rubber insulating gloves are available in six ASTM defined voltage classes. Rubber insulating sleeves are available in Class 00

through 4. The chart below identifies the class, proof test voltage and maximum allowable exposure voltage.

Protective Rubber Equipment Labelling Chart for Lineman's Natural Rubber and SALCOR® Rubber Protective Equipment					
CLASS COLOUR	PROOF TEST VOLTAGE AC/DC	MAX USE* VOLTAGE AC/DC	RUBBER MOLDED PRODUCTS LABEL	GLOVE LABEL	RUBBER DIPPED SLEEVE LABEL
00 BEIGE	2,500/10,000	500/750			
0 RED	5,000/20,000	1,000/1,500			
1 WHITE	10,000/40,000	7,500/11,250			
2 YELLOW	20,000/50,000	17,000/25,500			
3 GREEN	30,000/60,000	26,500/39,750			
4 ORANGE	40,000/70,000	36,000/54,000			

Insulating Gloves and Sleeves must have a colour coded label to meet appropriate ASTM Specifications.

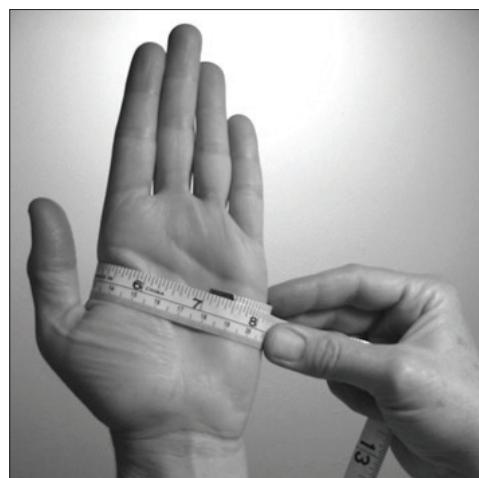
\* Maximum Usage Voltage when worn with leather protectors.

## RUBBER INSULATING GLOVES SIZING

Rubber insulating gloves are among the most important articles of personal protection equipment for electrical workers. Incorporating high dielectric and physical strength, flexibility and durability, these gloves have earned a reputation for superior performance – meeting and exceeding the requirements of current ASTM D120 specifications.

To determine a proper fit, measure (in inches) the circumference around the palm, allow for additional room if cotton glove liners are to be worn.

Before each use, gloves should be inspected for holes, rips, ozone cutting, UV checking and signs of chemical deterioration. Gloves should be regularly tested to ensure they are not damaged in any way.



Measure the circumference around the palm to select the correct glove size

## CLASS 00 RUBBER INSULATING GLOVES – UP TO 500V

- Available in solid colour (Red, and Blue) with other solid colours available upon request
- 11 inch length\*

CAT NO.	DESCRIPTION	COLOUR
E0011R-8	1pr SALISBURY CLOO 11 GLOVES SZ 8	RED
E0011R-8.5	1pr SALISBURY CLOO 11 GLOVES SZ 8.5	RED
E0011R-9	1pr SALISBURY CLOO 11 GLOVE SZ 9	RED
E0011R-9.5	1pr SALISBURY CLOO 11 GLOVE SZ 9.5	RED
E0011R-10	1pr SALISBURY CLOO 11 GLOVE SZ 10	RED
E0011R-10.5	1pr SALISBURY CLOO 11 GLOVE SZ 10.5	RED
E0011R-11	1pr SALISBURY CLOO 11 GLOVE SZ 11	RED
E0011R-11.5	1pr SALISBURY CLOO 11 GLOVE SZ 11.5	RED
E0011R-12	1pr SALISBURY CLOO 11 GLOVES SZ 12	RED



\*Other lengths available on request

## CLASS 0 RUBBER INSULATING GLOVES – UP TO 1000V

- Available in solid colour (Black or Yellow) with other solid colours available upon request
- 11 inch length\*

CAT NO.	DESCRIPTION	COLOUR
E011Y-8	1pr SALISBURY CLO 11 GLOVES SZ 8	YELLOW
E011Y-8.5	1pr SALISBURY CLO 11 GLOVES SZ 8.5	YELLOW
E011Y-9	1pr SALISBURY CLO 11 GLOVES SZ 9	YELLOW
E011Y-9.5	1pr SALISBURY CLO 11 GLOVES SZ 9.5	YELLOW
E011Y-10	1pr SALISBURY CLO 11 GLOVES SZ 10	YELLOW
E011Y-10.5	1pr SALISBURY CLO 11 GLOVES SZ 10.5	YELLOW
E011Y-11	1pr SALISBURY CLO 11 GLOVES SZ 11	YELLOW
E011Y-12	1pr SALISBURY CLO 11 GLOVES SZ 12	YELLOW



\*Other lengths available on request

## CLASS 1 RUBBER INSULATING GLOVES – UP TO 10,000V

- Available in dual colour
- 14 inch length\*

CAT NO.	DESCRIPTION	COLOUR
E114YB-8	1pr SALISBURY CL1 14 GLOVES SZ 8	YELLOW/BLACK
E114YB-8.5	1pr SALISBURY CL1 14 GLOVES SZ 8.5	YELLOW/BLACK
E114YB-9	1pr SALISBURY CL1 14 GLOVES SZ 9	YELLOW/BLACK
E114YB-9.5	1pr SALISBURY CL1 14 GLOVES SZ 9.5	YELLOW/BLACK
E114YB-10	1pr SALISBURY CL1 14 GLOVE SZ 10	YELLOW/BLACK
E114YB-10.5	1pr SALISBURY CL1 14 GLOVES SZ 10.5	YELLOW/BLACK
E114YB-11	1pr SALISBURY CL1 14 GLOVE SZ 11	YELLOW/BLACK
E114YB-12	1pr SALISBURY CL1 14 GLOVE SZ 12	YELLOW/BLACK



\*Other lengths available on request

## CLASS 2 RUBBER INSULATING GLOVES – UP TO 20,000V

- Available in dual colour
- 16 inch length\*

CAT NO.	DESCRIPTION	COLOUR
E216YB-8	1pr SALISBURY CL2 16 GLOVES SZ 8	YELLOW/BLACK
E216YB-8.5	1pr SALISBURY CL2 16 GLOVES SZ 8.5	YELLOW/BLACK
E216YB-9	1pr SALISBURY CL2 16 GLOVES SZ 9	YELLOW/BLACK
E216YB-9.5	1pr SALISBURY CL2 16 GLOVES SZ 9.5	YELLOW/BLACK
E216YB-10	1pr SALISBURY CL2 16 GLOVES SZ 10	YELLOW/BLACK
E216YB-10.5	1pr SALISBURY CL2 16 GLOVES SZ 10.5	YELLOW/BLACK
E216YB-11	1pr SALISBURY CL2 16 GLOVES SZ 11	YELLOW/BLACK
E216YB-12	1pr SALISBURY CL2 16 GLOVES SZ 12	YELLOW/BLACK



\*Other lengths available on request

## CLASS 3 RUBBER INSULATING GLOVES – UP TO 30,000V

- Available in dual colour
- 16 inch length\*

CAT NO.	DESCRIPTION	COLOUR
E316BCYB-10.5	1pr SALISBURY CL3 16 BELL CLUFF	YELLOW/BLACK
E316BCYB-11	1pr SALISBURY CL3 16 BELL CLUFF	YELLOW/BLACK
E316YB-9	1pr SALISBURY CL3 16 GLOVES SZ 9	YELLOW/BLACK
E316YB-9.5	1pr SALISBURY CL3 16 GLOVES SZ 9.5	YELLOW/BLACK
E316YB-10	1pr SALISBURY CL3 16 GLOVES SZ 10	YELLOW/BLACK
E316YB-10.5	1pr SALISBURY CL3 16 GLOVES SZ 10.5	YELLOW/BLACK
E316YB-11	1pr SALISBURY CL3 16 GLOVES SZ 11	YELLOW/BLACK



\*Other lengths available on request

## CLASS 4 RUBBER INSULATING GLOVES – UP TO 40,000V

- Available in dual colour
- 18 inch length\*

CAT NO.	DESCRIPTION	COLOUR
E418YB-9	1pr SALISBURY CL4 18 GLOVES SZ9	YELLOW/BLACK
E418YB-9.5	1pr SALISBURY CL4 18 GLOVES SZ9.5	YELLOW/BLACK
E418YB-10	1pr SALISBURY CL4 18 GLOVES SZ10	YELLOW/BLACK
E418YB-10.5	1pr SALISBURY CL4 18 GLOVES SZ10.5	YELLOW/BLACK
E418YB-11	1pr SALISBURY CL4 18 GLOVES SZ11	YELLOW/BLACK



\*Other lengths available on request

## LEATHER OVER-GLOVES

Used to mechanically protect the rubber insulating gloves from potential damage caused by abrasion, chemical deterioration and cuts, leather protectors are made from cowhide, they are available in sizes 8-12 (cover full and half size, eg 8/8.5).

Leather protectors are available for specific Classes of rubber gloves. We stock two styles, both styles feature an adjustable strap with non-metallic buckle to tighten them and ensure they remain in place to protect the rubber insulating glove beneath them.

### CLASS 00-0 LEATHER OVER-GLOVES

CAT NO.	DESCRIPTION
ILPG10A-8	1pr LEATHER GLOVES CLASS 00-0 SIZE 8-8.5
ILPG10A-9	1pr LEATHER GLOVES CLASS 00-0 SIZE 9-9.5
ILPG10A-10	1pr LEATHER GLOVES CLASS 00-0 SIZE 10-10.5
ILPG10A-11	1pr LEATHER GLOVES CLASS 00-0 SIZE 11-11.5
ILPG10A-12	1pr LEATHER GLOVES CLASS 00-0 SIZE 12-12.5



### CLASS 1-4 LEATHER OVER-GLOVES

CAT NO.	DESCRIPTION
ILPG3S-8	1pr LEATHER GLOVES CLASS 1-4 SIZE 8-8.5
ILPG3S-9	1pr LEATHER GLOVES CLASS 1-4 SIZE 9-9.5
ILPG3S-10	1pr LEATHER GLOVES CLASS 1-4 SIZE 10-10.5
ILPG3S-11	1pr LEATHER GLOVES CLASS 1-4 SIZE 11-11.5
ILPG3S-12	1pr LEATHER GLOVES CLASS 1-4 SIZE 12-12.5



### COTTON GLOVE LINER

Cotton Glove Liners reduce the discomfort of wearing rubber insulating gloves. They provide warmth in colder temperatures and absorb perspiration in the warmer months. The knit wrist grips keep the liner in place. Cotton Glove Liners are made from cotton and therefore are non-drip.

CAT NO.	DESCRIPTION
35	COTTON GLOVE LINER, ONE SIZE



## GLOVE POWDER

Ten-Four Glove Dust is a cooling, frictionless powder that absorbs moisture and perspiration when wearing rubber gloves preventing gloves getting sticky. Available in 6oz bottles and 1 quart bulk packs.

CAT NO.	DESCRIPTION
10-4(1X6OZ)	SALISBURY 6OZ BOTTLE GLOVE POWDER



## STORAGE BAGS

Specialty bags designed and fit for purpose, these bags are made from the highest quality materials and double stitched for durability. Proper storage extends the service life of gloves, sleeves

CAT NO.	DESCRIPTION
GLOVEBAG	HV/LV GLOVE BAG
DUALBAG	HV/LV GLOVE & LEATHER PROTECTOR BAG
COMBOBAG	HV/LV TRI BAG SLEEVE/GLOVE/LEATHER PROTECTOR



GLOVEBAG



DUALBAG



COMBOBAG

## LINE COVERS

### LINE COVERS

Designed to provide temporary electrical insulation, mechanical protection and visual warning of power lines and conductors.

CAT NO.	DESCRIPTION
DB.35A	2.5M Long X 35mm ID, 650V with Mechanical Interlock



# TEST & MEASUREMENT

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**Note:** This catalogue shows a selection of products we offer, other products are available on request, please contact customer service for information..

## DIGITAL MULTIMETER SELECTION CHART



BRAND	2 PLUS M205A	WORLD M206A	OUTDOOR M2400	X-TRA M240A	ULTRA M248A/B	27EX M227F EX RATED	ISO M246B	CAL M244A CALIBRATOR	METRACAL M245A METER/CAL	MD9020	MD9030
<b>GOSSEN METRAWATT</b>	<b>METREL®</b>										
TRMS	AC	AC	AC+DC	AC + DC	AC+DC	AC+DC	AC+DC	AC	AC	Y	
AC VOLTS	600	1000	1000	1000	600	600	600	300	1000	1000	
DC VOLTS	600	1000	1000	1000	600	600	600	300	1000	1000	
AC CURRENT	10	10	10	10	10	10	1	300MA	10	10	
DC CURRENT	10	10	10	10	10	10	1	300MA	10	10	
RESISTANCE	40M	40M	40M	40M	30M	30M	30M	30M	40M	40M	
ACOUSTIC CONT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
CONTINUITY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
DIODE TEST	2V	2V	5.1V	5.1V	4.5V	3V	13V	3.2V	1.6V		
CAPACITANCE	10PF-400MF	10PF-1000MF	10PF-1000MF	10PF-1000MF	1PF-3MF	30NF-300MF	30NF-100MF	500NF-3MF	500NF-3000MF		
FREQUENCY	0.1-1KHZ	0.1-1KHZ	.001-1MHz	.001-1MHz	.001-1MHz	0.1-3KHZ	1-1KHZ	1-2KHZ	50-1MHz	50-1MHz	
TEMPERATURE	-40TO400	-50TO800	-25TO1372	-25TO1372	-25TO1372	-200TO600	-250TO1372	-250TO1372	-20TO300	-20TO300	-20TO300
CONDUCTANCE											
4-20MA LOOP											
DB											
RPM DWELL											
INSULATION TEST											
FUEL INJECTION											
BLUETOOTH											
WIRELESS											
USB											
MIN/ MAX HOLD	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SOFTWARE											
DUAL DISPLAY	Y	Y	Y	Y	Y	Y	Y	Y	Y		
ANALOGUE +DIGITAL	Y	Y	Y	Y	Y	Y	Y	Y			
IP RATING	IP40	IP40	IP65	IP52	IP52	EX RATED	IP54	IP65	IP65		
REMOVABLE HOLSTER	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
AUTO OFF	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CAT II	600	1000	1000	1000	600	1000	300	300	1000	1000	
CAT III									600	600	
CAT IV									300	300	

BRAND	MID9035	MD9050	MD9060	MARMM34	MARMM39	MARMM64	117	179	87V	289	1587	789	28II	CNX3700
														
														
														
TRMS	Y	Y	Y				AC	AC	AC	AC	AC	AC	AC	
AC VOLTS	1000	1000	1000	600	600	600	1000	1000	1000	1000	1000	1000	1000	1000
DC VOLTS	1000	1000	1000	600	600	600	1000	1000	1000	1000	1000	1000	1000	1000
AC CURRENT	10	10	10	10	10	200MA	10	10	10	10	10	10	10	400MA
DC CURRENT	10	10	10	10	10	200MA	10	10	10	10	10	10	10	400MA
RESISTANCE	60M	60M	50M	.120M	.120M	.120M	40M	50M	50M	50M	50M	40M	50M	50M
ACOUSTIC CONT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CONTINUITY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
DIODE TEST	Y	2V	3.5V	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	2V
CAPACITANCE	6-2000MF	60NF-25MF	50NF-25MF				.1-20MF	10MF	10MF	10MF	10MF	10MF	10MF	1000MF
FREQUENCY	5-1MHz	5-1MHz					1-40KHz	50KHz	100KHz	200KHz	1MHz	100KHz	20KHz	100KHz
TEMPERATURE	-50 to 1832		T1 + T2				Y				400	1090	1350	500
CONDUCTANCE	99.99		99.99								60	50		60
4-20mA LOOP														
DB														
RPM DWELL	0-3600deg													
INSULATION TEST														
FUEL INJECTION	Y													
BLUETOOTH														
WIRELESS														
USB							IR INTERFACE				USB		USB	
MIN/ MAX HOLD	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y
SOFTWARE		OPTION									OPTION		OPTION	
DUAL DISPLAY	Y	Y	Y								Y	Y	Y	Y
ANALOGUE +DIGITAL	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y
IP RATING														IP67
REMOVABLE HOLSTER	Y	Y	Y											
AUTO OFF	Y	Y	Y				Y	Y	Y	Y	Y	Y	Y	Y
CAT II	1000													
CAT III							600	600	600	1000	1000	1000	1000	1000
CAT IV	1000		1000								600	600	600	600

## FLUKE-179 DIGITAL MULTIMETER

### KEY FEATURES

- True RMS measurement
- Large backlit display
- Auto and Manual ranging
- Analogue bar-graph
- Temperature reading (Probe included)
- Low Battery indication
- Lifetime warranty
- CAT IV 600V

### MEASURING FEATURES

- Voltage AC/DC
- Current AC/DC
- Resistance
- Capacitance
- Frequency
- Temperature



CAT NO.	DESCRIPTION
FLUKE-179	ELECTRICAL FIELD SERVICE DIGITAL MULTIMETER TRMS, CAT IV, 600V

## M206A DIGITAL MULTIMETER, ANALOGUE SCALE & PRECISION TEMPERATURE

### KEY FEATURES

- Automatic and manual measuring range selection
- TRMS AC+DC
- Voltage: 600mV – 600V AC/DC
- Current: 60mA – 10A AC/DC (16A, 30sec)
- Resistance: 600W – 40mW
- Precision temperature measurement (-200+800°C)
- Frequency measurement (max. 100kHz)
- Capacitance measurement

- Bidirectional infrared interface to PC (9.6KB)
- Continuity and diode testing
- MIN/MAX measured value storage & DATA hold
- Rubber holster, IP52
- CAT III 600V, per IEC61010-1
- 3 year guarantee



CAT NO.	DESCRIPTION
M206A	METRAHIT WORLD TRMS DMM COMES WITH PC INTERFACE

## MD9040 TRMS INDUSTRIAL DIGITAL MULTIMETER

### KEY FEATURES

- Lead alert: identifies incorrect lead connection
- Auto-ranging: user can switch between auto and manual
- MAX/MIN/AVG: recording of max/min/avg values
- Data Hold feature freezes the display for later view
- PC Link: download test results via the optional PC software
- Frequency measurement: up to 1MHz
- Safety: CAT IV 1000V overvoltage protection

### MEASURING FUNCTIONS

- TRMS AC/DC current measurement
- Capacitance/Resistance /Diode test
- Mains supply frequency measurement
- Frequency of digital signals
- Continuity test (acoustic signalling)



CAT NO.	DESCRIPTION
MD9040	INDUSTRIAL HIGH LEVEL FAULT FINDING MULTIMETER, CAT IV, 1000V, AC/DC

## MARMM39 AC/DC/RES/CONT/AMPS MULTIMETER

A value for money multimeter designed for comfort and ease of use, even when wearing protective gloves.

The large rotary range selector and two single buttons make one handed operation very simple and comfortable.

Fused protection and CAT III 600V overvoltage protection.

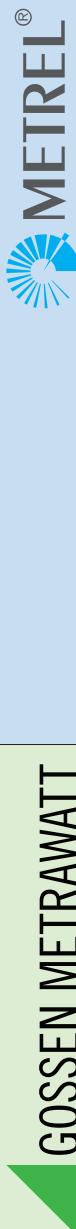
### FUNCTIONS

Voltage: 600V AC/DC  
Current: 10A AC/DC



CAT NO.	DESCRIPTION
MARMM39	DIGITAL MULTIMETER, AC/DC/RESISTANCE/CONTINUITY

# CLAMP METER SELECTION CHART



**METREL**<sup>®</sup>

PART NUMBER	METRACLIP 63 M311G	METRACLIP 64 M311H	METRACLIP 72 M312E	MD9220	MD9225	MD9230	MD9235	MD9240	MD9250	MD9270
TRMS				Y	Y	Y	Y	Y	Y	Y
AC VOLTS				600	600	600	600	600	600	600
DC VOLTS				600	600	600	600	600	600	600
AC CURRENT	10	10		400	2000	400	800	600	400	2000
DC CURRENT	100MA	100MA		400		400	1000		400	2000
RESISTANCE				40K	6M	40M	40M	1K	1K	40M
ACOUSTIC CONT				Y	Y	Y	Y	Y	Y	Y
CONTINUITY				Y	Y	Y	Y	Y	Y	Y
DIODE TEST					Y	Y	Y	Y	Y	Y
CAPACITANCE					100NF-200MF	500NF-3000MF	5000NF-30000MF		1V	
FREQUENCY					.01-20KHZ	10-30KHZ		5-500HZ	5-500HZ	10-2KHZ
TEMPERATURE							-20TO537		-50TO300	-50TO1000
CONDUCTANCE								KW/KVAR		
4-20MA LOOP	Y	Y						KVA	KW, KVA, KVAR	
3 PHASE POWER										W,VA,VAR
POWER MEASURE					240KW					
POWER FACTOR					0.2-1			0.1-1	0.1-1	0-1
DATA LOGG										
HARMONICS										0.999%
WIRELESS								USB	USB	
USB								USB	USB	
MIN/MAX HOLD	Y	Y			Y	Y	Y	Y	Y	Y
SOFTWARE								OPTION	OPTION	OPTION
IP RATING										
REMOVABLE HOLSTER										
AUTO OFF					Y	Y	Y	Y	Y	Y
JAW OPENING	5MM	30MM	26MM	45MM	26MM	50MM	26MM	45MM	55MM	31MM
CAT II			600							
CAT III	300	300	300		600	600	600	600	600	600
CAT IV					300	300	300	300	300	300

## CLAMP METER SELECTION CHART CONT.

PART NUMBER	MARCM54	MARCM56	MARCM58	325	374	375	376	381	365	771	772	773
<b>MARTINDALE</b> ••• ELECTRIC											<b>FLUKE</b> ®	
TRMS			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
AC VOLTS	750	750	750	600	600	600	600	1000	600	1000	600	1000
DC VOLTS	1000	1000	1000	600	600	600	600	1000	600	1000	600	1000
AC CURRENT	1000	1000	1000	400	600	600	1000	2500	200	24V LOOP	24V LOOP	0-30 LOOP
DC CURRENT			1000	400	600	600	1000	200	200	0-100MA		
RESISTANCE	2000M	30M	40M	40K	6K	6K	60K	60K	6K			
ACOUSTIC CONT	Y	Y	Y									
CONTINUITY	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
DIODE TEST		Y	Y									
CAPACITANCE			1PF-40MF	100PF-1KMF	Y	Y	Y	Y	Y	Y	Y	Y
FREQUENCY	0.1-32KHZ	1.400KHZ	5-500HZ	500HZ	500HZ	500HZ	500HZ	500HZ	500HZ	500HZ	500HZ	500HZ
TEMPERATURE				-10TO400								
CONDUCTANCE												
4-20MA LOOP												
3 PHASE POWER												
POWER MEASURE												
POWER FACTOR												
DATA LOGG												
HARMONICS												
WIRELESS												
USB												
MIN/MAX HOLD					Y	Y	Y	Y	Y	Y	Y	Y
SOFTWARE												
IP RATING												
REMOV HOLSTER												
AUTO OFF												
JAW OPENING	57MM	57MM	57MM	30MM	34MM	34MM	34MM	34MM	34MM	34MM + 18MM		
CAT II												
CAT III					600	1000	1000	1000	1000	600		
CAT IV					300	600	600	600	600	600		

ALSO AVAILABLE, METREL MD9210, MD9240, FLUKE 323, 324, 373

## FLUKE-381 TRMS CLAMP METER AC/DC IFLEX 600-1000V

The new iFlex™ series from Fluke offers the ability to measure large and often difficult to access conductors up to 2500A. The flexible current probe provides improved access to cables in tight and cramped spaces.

### KEY FEATURES

- Remote Display

- iFlex™ 18 inch
- 2500A with iFlex™
- 1000A with jaw
- Frequency, resistance, Min/Max/Avg
- CAT IV 600V



CAT NO.	DESCRIPTION
FLUKE-381	TRMS CLAMP METER AC/DC IFLEX 600-1000V

## MD9240 TRMS POWER CLAMP METER

### KEY FEATURES

- High current: measures up to 1000A AC
- Autocheck: automatic detection of AC/ DC voltage or AC current
- Power parameters: (active, reactive, apparent power, THD, PF)
- Temperature: up to 300°C/572°F
- PC Link: download test results via the optional PC software

### MEASURING FUNCTIONS

- TRMS AC/DC voltage, AC current
- Frequency measurement
- Resistance measurement
- Continuity test
- Temperature measurement
- Power parameters measurement



CAT NO.	DESCRIPTION
MD9240	POWER SYSTEM MAINTENANCE INDUSTRIAL CLAMP METER

## FLUKE-376 TRMS AC/DC CLAMP WITH IFLEX PROBE 600V

The new iFlex™ series from Fluke offers the ability to measure large and often difficult to access conductors up to 2500A. The flexible current probe provides improved access to cables in tight and cramped spaces.

### MEASUREMENT FUNCTIONS

- 1000A AC/DC current via Jaw
- 2500A AC current Via iFlex™

- True-RMS AC/DC Voltage
- Resistance
- Frequency
- Continuity
- MIN/MAX, average and inrush recording



CAT NO.	DESCRIPTION
FLUKE-376	TRUE-RMS AC/DC CLAMP METER WITH IFLEX

## MARCM54 1000A AC CLAMP METER

Basic level 1000A AC meter with a large jaw size.

### MEASUREMENT FUNCTIONS

- Display: 3½ digit LCD with large 21mm digits
- AC V: 1V to 750V [50Hz to 500Hz] ± [1.5% rdg + 4 dgts]
- DC V: 1V to 1000V ± [0.5% rdg + 1 dgts]
- AC A: 100mA to 1000A [2 ranges] [50-400Hz]
- Typical accuracy 0-600A ± [1.5% rdg+5dgts] 50-60Hz,

- >600A ± [2.0% rdg+5dgts] 50-60Hz
- Resistance ranges: 200Ω, 20kΩ, 20MΩ, 2000MΩ
- Resolution: 0.1Ω on 200Ω range
- Continuity: Buzz at <75Ω
- Max conductor: 57mm Ø or 70 x 18mm bus bar



CAT NO.	DESCRIPTION
MARCM54	MARTINDALE 1000A AC CLAMP METER

## NON-CONTACT TESTERS

### TNLVD-15 NON-CONTACT VOLT STICK

Designed for non-contact voltage detection, can be used to find a break in a wire. Bright LED and audible alarm sound when voltage is present. Handy flash light function and On/Off switch for long battery life.

#### MEASURING FEATURES

- EN 61010-1 CAT III 600V, EN 61323-1
- Voltage detection 50V–1000V AC
- Frequency 50–500Hz



CAT NO.	DESCRIPTION
TNLVD-15	NON CONTACT CAT III, 600V VOLT STICK

### TNLVD-17 NON-CONTACT ADJUSTABLE VOLT STICK

Designed for non-contact voltage detection. Sensitivity adjustable with a handy thumb wheel. Adjustable for use on power wiring plus lighting, thermostats and other low voltage circuits. A bright LED and audible alarm sound when voltage is present and an LED indicates battery condition.

#### MEASURING FEATURES

- EN61010-1 CAT IV 1000V
- Voltage detection 50V–1000V AC

- Frequency 50–500Hz
- Indication LED and Tone
- Humidity, Less than 80% R.H, Altitude 2000m Max



CAT NO.	DESCRIPTION
TNLVD-17	ADJUSTABLE NON-CONTACT CAT IV 1000V VOLT STICK

### FLUKE-1AC II VOLT ALERT

The Fluke Volt Alert AC voltage detector is very easy to use – just touch the tip to a terminal strip, outlet or cord. When the tip glows red and the unit beeps, you know there is voltage on the line.

#### KEY FEATURES

- It continually tests its battery and its circuit integrity with a periodic double flash visual indication

- Highest safety rating: CAT IV 1000V
- Detects voltage without metallic contact



CAT NO.	DESCRIPTION
FLUKE-1AC II	NON-CONTACT AC VOLTAGE DETECTOR CAT IV 1000V

### MARTEK100 NON CONTACT VOLT STICK

This non contact tester has a self test function for ensuring accuracy as well as checking the battery and LED. This unit does not require a separate proving unit.

- Operating temperature -5 to 40°C
- Oversupply CAT III 1000V, CAT IV 600V
- Power Supply 9V alkaline battery (included)

CAT NO.	DESCRIPTION
MARTEK100	NON-CONTACT VOLTAGE DETECTOR 100V-600V, CAT III 1000V, CAT IV 600V



## TN275NZHP VOLTAGE DETECTOR

The TN275NZHP is a high voltage proximity detector. It has nine voltage detection settings from 240V AC to 275kV AC. The unit has an internal pickup sensor plate, a sensitivity selector, a visual and an audible annunciation. With the TN275NZHP, physical

### KEY FEATURES

- Sealed by 'O' rings
- 9 voltage settings: 240V, 3.3kV, 6.6kV, 11kV, 22kV, 33kV, 66kV, 110kV, 220kV
- High bright LEDs for visual indication
- Sound indication
- Easy-to-prove method and self test
- Easy access to 3 x 1.5V 'C' batteries
- High impact nylon casing
- Non-contact work by proximity
- Universal hotstick fitting
- Light weight, robust & compact
- Detect low voltage on any systems
- Meets EN61000-3-2, EN61000-3-3, EN61326-1, EN55011, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

contact with electrical conductors is not necessary when testing for live lines. This tester works by proximity.



CAT NO.	DESCRIPTION
TN275NZHP	HIGH VOLTAGE DETECTOR 240V-220kV
TN275NZPHANDLE	REPLACEMENT HANDLE FOR TN275NZHP

## MULTIFUNCTION/INSTALLATION TESTERS MI3125 EUROTESTCOMBO & MI3125BT EUROTESTCOMBO

### KEY FEATURES

- LED Pass/Fail indicators: two LED indicators for PASS/FAIL evaluation of test results are placed on both sides of the LCD
- Help screens: instrument comes complete with built-in help screens for referencing on site
- Built-in fuse tables: this unique feature allows automatic evaluation of the line/loop impedance compared to the regulations
- Online voltage monitoring: monitors all 3 voltages in real-time
- Upgradable: if changes occur to the regulations, upgrades can be made to the firmware to keep the unit up to date
- Polarity swap: automatic polarity reversal on continuity test
- Insulation range: wide range of insulation test voltages from 50V to 1000V, reading up to 1000MΩ
- Trip Lock function: Zs (RCD) function performs a loop impedance test without tripping the RCD
- Multi-system testing: tests on single and multiphase TT and TN systems
- Built-in charger & rechargeable batteries: unit has a built-in charging circuit and comes complete with a set of rechargeable NiMH batteries
- RCD auto: automated RCD testing procedure significantly reduces test time
- Software Upgradable



CAT NO.	DESCRIPTION
MI3125	MULTI FUNCTION INSTALLATION TESTER HANDHELD
MI3125BT	MULTI FUNCTION INSTALLATION TESTER WITH BLUE TOOTH

## MI3100 EUROTESTEASI

The MI3100 EurotestEASI is a fast, accurate and easy to use rechargeable installation tester. The large, bright LCD screen with backlight is perfect for working in dark conditions while the online voltage monitoring system and phase sequence function enable EurotestEASI to work on both single phase and 3 phase systems. MI3100 EurotestEASI incorporates full schematic help screens for each test, describing exactly how to connect the instrument into the installation and how to perform a test. The instrument also contains a list of characteristics of fuses and RCDs for PASS/FAIL evaluation of test results. The MI3100 EurotestEASI performs continuity, insulation, RCD, loop, line, voltage, frequency and phase sequence tests.

### KEY FEATURES

- Help screens: instrument comes complete with built-in help screens for referencing on site
- Built-in fuse tables: this unique feature allows automatic evaluation of the line/loop impedance compared to the regulations
- Online voltage monitoring: monitors all 3 voltages in real time
- Upgradable: if changes occur to the regulations, upgrades can be made to the firmware to keep the instrument up to date
- Polarity swap: automatic polarity reversal on continuity test
- Insulation range: wide range of insulation test voltages from 100V to 1000V, reading up to 1000MΩ
- Trip Lock function: Zs (RCD) function performs a loop impedance test without tripping the RCD
- Software Upgradable

CAT NO.	DESCRIPTION
MI3100	MULTI FUNCTION INSTALLATION TESTER

## MI3102 EUROTESTXE INSTALLATION TESTER

The MI3102 EurotestXE is the ideal instrument for engineers who perform high volume installation safety testing. Performing all the necessary tests for installation testing, EurotestXE also enables online voltage monitoring, phase sequence testing, 3 wire earth resistance measurement (using the accessories included in the standard set), illuminance and TRMS current measurement.

EurotestXE is equipped with integrated characteristics of fuses and RCDs for PASS/FAIL evaluation of test results. All the results can be quickly saved and referenced on the instrument and then downloaded via the EuroLink PRO software, included in the standard set, to the computer for evaluation and report generation after testing. MI3102 EurotestXE performs continuity, insulation, RCD, loop, line, voltage, frequency, earth resistance testing and phase sequence tests.

### KEY FUNCTIONS

- Insulation resistance with DC/AC voltage
- Continuity of PE conductors with 200mA test current with polarity change
- Continuity of PE conductors with 7mA test current (continuous measurement) without RCD tripping.
- Line impedance/Loop impedance with Trip Lock RCD function
- TRMS voltage and frequency

CAT NO.	DESCRIPTION
MI3102	INSTALLATION TESTER EUROTESTXE WITH DOWNLOAD SOFTWARE

### MEASURING FEATURES

- Insulation resistance with DC voltage
- Continuity of PE conductors with 200mA test current with polarity change
- Continuity of PE conductors with 7mA test current (continuous measurement) without RCD tripping
- Line impedance/Loop impedance
- Loop impedance with Trip Lock RCD function
- TRMS voltage and frequency. Phase sequence
- RCD testing (general and selective, type AC, A)



## FLUKE-1652C & 1653B MULTIFUNCTION INSTALLATION TESTERS

With new features like the fast, high current loop test (including a non-trip test) and a variable RCD trip current setting, the new 1650 Series' accuracy is even better and the test cycle even faster. And with the addition of a unique zero adapter accessory for accurate mains test lead compensation, it continues to set the standard installation testers.

### 1652C

The ideal tester with phase rotation for professional trouble-shooters. Ideal for professional users due to its additional functionality. Even though it has high-end features, it is still easy to use, even after longer periods of non-use, operating it is intuitive and not forgotten easily.

### 1653B

The complete tester for advanced users. This instrument has it all, from all the test functions you need, to in-built memory

for documenting results. This makes it the complete solution for anyone who would want to have the best tool available and always understands (or know) how to use it.



CAT NO.	DESCRIPTION
FLUKE-1652C	MULTI FUNCTION INSTALLATION TESTER
FLUKE-1653B	MULTI FUNCTION INSTALLATION TESTER DOWNLOADABLE

## TNLAMPKIT LIGHT SOCKET TEST KIT

The perfect accessory for an electrician, this nifty little kit includes socket adapters that allow you to simply fit them to the socket and test, there is no need to disconnect fittings.

### KEY FEATURES

- Simple kit for safe connection of light fittings
- Adaptors for GU10, SES, BC, SBC, ES fittings
- Fastest way to check Insulation/Continuity/Loop/Polarity
- High quality 4mm fittings
- Hands free testing
- Leave fitting in place



CAT NO.	DESCRIPTION
TNLAMPKIT	MARTINDALE LIGHT SOCKET TEST KIT

## MARTL78 50MTR GREEN R2 CONTINUITY WIRE

This handy carry case reel contains a high quality continuity cable for earth testing. The cable can be easily retracted by winding it up much like a hose reel.

### KEY FEATURES

- 50M Green continuity cable
- Handy Reel
- Retractable tidy cable
- Easy to use
- Quick connectors



CAT NO.	DESCRIPTION
MARTL78	50MTR GREEN R2 CONTINUITY WIRE ON A REEL

## CONTINUITY TESTERS

### FLUKE-T130 & T150 VOLTAGE & CONTINUITY TESTER

#### KEY FEATURES

- Large LCD Display
- Backlight (T150 only)
- Polarity indication
- Visual and audible continuity test
- Probe protection
- Rugged IP65 casing
- CAT IV, 600V

#### MEASUREMENT FUNCTIONS

- Phase rotation
- Resistance (T150 only)
- Voltage AC/DC
- Continuity frequency



CAT NO.	DESCRIPTION
FLUKE-T130	VOLTAGE/CONTINUITY TESTER
FLUKE-T150	VOLTAGE/CONTINUITY TESTER WITH RESISTANCE MEASUREMENT

### FLUKE-T5-1000 & T5-600 VOLTAGE & CONTINUITY TESTERS

#### KEY FEATURES

- Open Jaw current technology
- Compact all in one tool
- Continuity and beeper
- Sleep mode
- T5-1000 CAT III/1000V rated
- T5-600 CAT III/600V rated

#### MEASUREMENT FEATURES

- AC Voltage
- DC Voltage
- AC Current
- Resistance
- Continuity



CAT NO.	DESCRIPTION
FLUKE-T5-1000	CAT III/ 1000V, OPEN JAW TESTER
FLUKE-T5-600	CAT III/ 600V, OPEN JAW TESTER

## POWER QUALITY ANALYSERS

### MI2392 POWERQ PLUS POWER QUALITY ANALYSER

#### KEY FEATURES

- Three current and three voltage inputs
- Measurement and recording of basic power quality parameters (U, I, P, Q, S, PF, cos, THD)
- Power quality analysis according to EN50160 including standardised report printout
- 4 quadrant measurements (generator and load with capacitive or inductive character)
- Quick set-up functions
- On-line scope and metering modes
- Voltage unbalance calculation for 3-phase systems
- Recording of anomalies and inrush currents via adjustable triggers
- Lightweight design
- Large LCD display enables on-line monitoring of measuring results either in table or graphic form
- PC SW PowerView included in the standard set is used for downloading, management of recorded data and creation of test reports



CAT NO.	DESCRIPTION
MI2392	POWER QUALITY ANALYSER/LOGGER

## MI2592 POWERQ4 POWER QUALITY ANALYSER

### KEY FEATURES

- Four voltage channels with wide measurement range: 0-1000 Vrms (CAT III/1000V)
- Simultaneous measurement and recording of basic power quality parameters (U, I, P, Q, S, PF, cos, THD)
- Power quality analysis according to EN 50160 including flicker measurement and standardised report printout in graphic and table form
- Four quadrant measurements (generator and load with capacitive or inductive character)
- 509 parameters can be monitored or recorded simultaneously
- 8MB of internal memory space allows recording over 4 weeks
- On-line Scope, Trend and Metering modes
- Flexible clamps (without additional supply) are included in the standard set
- Simultaneous 8 channels – 16 bit AD conversion for accurate power measurements (minimal phase shift error)
- 15 hours of autonomous (battery) supply
- Powerful PC SW PowerView enables downloading, view, analysis of recorded data and professional report creation



CAT NO.	DESCRIPTION
MI2592	POWERQ4, QUALITY ANALYSER/LOGGER, CAT III/1000V

## MI2792 POWERQ4 PLUS 1000V POWER QUALITY ANALYSER

### APPLICATIONS

- Power quality assessment and troubleshooting in low and middle voltage electrical systems.
- Checking power correction equipment performance.
- Harmonics spectrum analysis for selection of harmonic filters.
- UPS, voltage generators and regulators checking and troubleshooting.
- Voltage, current, power monitoring and recording.
- Consumption profile recording.

### STANDARDS

- Adheres to international IEEE, IEC and EN standards



CAT NO.	DESCRIPTION
MI2792	POWERQ4 PLUS 1000V POWER QUALITY ANALYSER

# PORTABLE APPLIANCE TESTERS (PAT)

## MI3311 GAMMA PAT PORTABLE APPLIANCE TESTER

### FEATURES

- Earth bond resistance testing
- Insulation resistance testing
- Insulation resistance of isolated accessible conductive parts
- Substitute leakage current of isolated accessible conductive parts
- Functional and visual inspection
- IEC cord polarity
- Voltage TRMS
- Pre-programmed test sequences
- VDE organiser
- Fast testing with help of barcodes
- Test sequences can be uploaded from PC

### STANDARDS

- Adheres to international EN, VDE and NEN standards



CAT NO.	DESCRIPTION
MI3311	PORTABLE APPLIANCE TESTER - GAMMA PAT

## MI3309 DELTA GT

### THE FOLLOWING TESTS CAN BE PERFORMED

- Functional and visual inspection
- Earth bond resistance
- Insulation resistance of isolated accessible conductive parts
- Substitute leakage current of isolated accessible conductive parts
- Differential leakage current test
- Touch leakage test
- RCD test
- Power test
- IEC cord polarity test
- TRMS voltage meter



CAT NO.	DESCRIPTION
MI3309	HANDHELD APPLIANCE TESTER COMES WITH PC INTERFACE
TRANSDELTA4	DELTA GT COMPLETE WITH PRINTER, SCANNER, SOFTWARE & CABLES

## MI3304 BETAGT PLUS PAT TESTER & TRANSPAT

### KEY FEATURES

- 24 pre-set autosequences and custom prepared autosequences speed up testing and ensure that no tests are missed
- Automatic testing and PASS/FAIL evaluation of test results according to appropriate standard
- Project uploading: previous test data can be uploaded for fast retesting of the appliance
- Scan and test: optional barcoding system and PASS/FAIL barcode label printing make retesting quick and simple
- User friendly: large LCD screen, full QWERTY keyboard, help screens and warnings
- Instrument performs continuity tests with different test currents, 250V and 500V insulation tests, differential/substitute/touch leakage measurements, functional and polarity tests
- PRCD testing: instrument enables measurement of trip-out time of portable RCD
- Up to 6500 test results with measuring parameters can be stored in two level memory and downloaded with the help of PC SW PATLink PRO
- PC SW PATLink PRO Plus enables advanced analysis of test results, upload of structures and data upload to the instrument for on site comparison of old and new results, upload of pre-programmed custom autosequences and creation of professional test reports



CAT NO.	DESCRIPTION
MI3304	BETAGT PLUS PAT TESTER
TRANSPAT4	BETAGT PLUS COMPLETE WITH PRINTER, SCANNER, SOFTWARE & CABLES

## MI3310 SIGMA GT

### THE FOLLOWING TESTS CAN BE PERFORMED

- Earth bond/continuity resistance (200mA)
- Insulation resistance
- Insulation resistance of isolated accessible conductive parts
- Substitute leakage current
- Substitute leakage current of isolated accessible conductive parts
- Differential leakage current
- Touch leakage current
- IEC cord polarity test
- Leakage and TRMS load currents with current clamp
- Portable RCD testing
- RCD testing
- Functional test
- Up to 6000 test results with measuring parameters can be stored in two level memory and downloaded
- Bluetooth model available (Cat No. MI3310A)



CAT NO.	DESCRIPTION
MI3310	MAINS/BATTERY POWERED APPLIANCE TESTER COMES WITH PC INTERFACE
TRANSIGMA4	SIGMA GT COMPLETE WITH PRINTER, SCANNER, SOFTWARE & CABLES

## TEST TAGS

### STANDARD TAG

- The 'Great All Rounder' suitable for most environments
- Constructed from Cross-Laminated High Density Polyethylene giving them superior tear resistance
- Laminated adhesive label with a seal down Security Flap. Self laminating to protect printed information
- Each Test Tag has a unique number to aid with record keeping.
- UV Stable
- Supplied in re-sealable packets of 100 with permanent marking pen

### HEAVY DUTY

- Adhesive label
- Formulated to withstand Hostile Environments
- 35mm x 110mm. Constructed from 350 Micron PVC and coated with EXTRA STRONG adhesive for superior durability
- Each Test Tag has a unique number to aid with record keeping
- UV Stable
- Supplied in re-sealable packets of 100 with Permanent Marking Pen
- Space for – Tested By, Plant/Item No., Licence No., Test Date, Next Test Due
- Ideal for Factory Environments & Construction Sites.

All Tags are manufactured to AS/NZS 3760 & AS/NZS 3012.

Customised tags are also available. Add your company logo, registration number, barcode, etc. Contact customer services for details – SEE PAGE 238 FOR CUSTOM TAG ORDER FORM



TNTTREMOVER

CAT NO.	TAG STYLE	COLOUR	PACK SIZE
TNTTBK	MEDIUM DUTY	BLACK	100
TNTTBKHD	HEAVY DUTY	BLACK	100
TNTTBL	MEDIUM DUTY	BLUE	100
TNTTBLHD	HEAVY DUTY	BLUE	100
TNTTBU	MEDIUM DUTY	BURGUNDY	100
TNTTBUHD	HEAVY DUTY	BURGUNDY	100
TNTTGN	MEDIUM DUTY	GREEN	100
TNTTGNHD	HEAVY DUTY	GREEN	100
TNTTGY	MEDIUM DUTY	GREY	100
TNTTGYHD	HEAVY DUTY	GREY	100
TNTTMIX	MEDIUM DUTY	MIXED	100
TNTTMIXHD	HEAVY DUTY	MIXED	100
TNTTOR	MEDIUM DUTY	ORANGE	100
TNTTORHD	HEAVY DUTY	ORANGE	100
TNTTRD	MEDIUM DUTY	RED	100
TNTTRDHD	HEAVY DUTY	RED	100
TNTTWH	MEDIUM DUTY	WHITE	100
TNTTWHHD	HEAVY DUTY	WHITE	100
TNTTYL	MEDIUM DUTY	YELLOW	100
TNTTYLH	HEAVY DUTY	YELLOW	100
TNTTREMOVER	TEST TAG REMOVAL TOOL	BLACK	1
TNTTLOG	TEST TAG LOG BOOK	-	1

## CABLE TRACERS

### TN180 CABLE TRACER/TONE GENERATOR

The TN180 unit is designed for dead circuit tracing only and comes complete with an Amplifier probe and a Tone generator. The Amplifier probe is designed to identify and trace wires or cables within a group, without damaging the insulation. It is interchangeable with any tone generator to identify wires. The volume is adjustable to suit the work site. Comes with RJ11 and RJ45 connectors.



CAT NO.	DESCRIPTION
TN180	TONE GENERATOR & AMPLIFIER PROBE - DEAD CIRCUIT TESTING

### MARFD650 ELITE FUSE FINDER KIT

The FD650 is a multipurpose version digital fuse finder. Supplied in a robust case complete with transmitter [FD600/T] and receiver [FD650/R]. The receiver unit should be held at right angles to the conductor.

#### Transmitter

- Voltage rating: 230V
- Dimensions: 65 x 65 x 46mm approx.

#### Receiver

- Tracing depth for fuse assignment: approx. 0-10cm, depending on local conditions
- Dimensions: 202 x 32 x 22mm
- Units are EMC compliant



CAT NO.	DESCRIPTION
MARFD650	ELITE PRO FUSE FINDER KIT - DEAD CIRCUIT TESTING

### MI2093 LINE TRACER

#### KEY FEATURES

- Detection depth up to 2m can be achieved
- Works on both, energised and non-energised systems
- The highly sensitive Receiver R10K detects injected signal around the measured line or object
- Three levels of sensitivity adjustment: low, middle and high. Each level can be precisely adjusted
- Dual, bar-graph and buzzer indicator ensures indication in a dark and noisy environment
- Locating cable interruptions and short circuits in cables
- Locating concealed sockets and distribution boxes
- Locating fuses and assignment to circuits
- Determining an individual wire in a bundle of wires
- Tracing pipe installations and other conductive loops



CAT NO.	DESCRIPTION
MI2093	LINE TRACER - LIVE OR DEAD CIRCUITS

## TOMKAT2 PIPE & CABLE LOCATOR

Better by design, the TOMKAT2 is rugged, lightweight & packed full of features including a detachable speaker (can be held close to the ear) for use in noisy conditions. Fingertip controls adjust the sensitivity & allow rapid switching between the TOMKAT2's three operating modes. The TOMKAT2 is used to assist in the location of buried pipes & cables offering three modes of detection.

The SIGEN 2 is a full function industry standard signal transmitter. Operating at 33kHz, applying a signal by intermittent output. Using induction or connection.

The SIGEN 2 comes supplied as standard with connection leads & earth stake.

### OPERATING MODES

- POWER MODE-Locates live cables radiating a detectable signal.
- RADIO MODE-Locates buried metallic conductors carrying a detectable VLF signal.
- GENNY MODE- Locates buried metallic conductors carrying a detectable signal by induction or connection using the SIGEN2.



CAT NO.	DESCRIPTION
TOMKAT2	TOMKAT2 PIPE AND CABLE LOCATOR

## CSCOPE - CABLE LOCATOR WITH DEPTH

### FEATURES

- Easy to use MXT and MXL models
- Depth measurement up to 3m
- All scan 50Hz-33kHz
- Multi frequency
- Rugged housing, IP65 rated
- Clear audible response to positive location
- LCD display
- Battery operated

Note: Parts are sold separately



CAT NO.	DESCRIPTION
CSCOPEMXL	C SCOPE XD CABLE LOCATOR COMES WITH DEPTH FUNCTION
CSCOPEMXT	C SCOPE MXT SIGNAL GENERATOR
CSCOPE33SONDE	C SCOPE 33 SONDE
CSCOPE50M	C SCOPE 50MTR REEL PIPE DETECTION
CSCOPEBAG	C SCOPE XD BAG
CSCOPECLAMP	C SCOPE CLAMP

## EARTH KITS

### IET15M INDEPENDENT EARTH TESTER REEL & SPIKE

Designed to attach to any voltage tester this reel and spike boasts 15m of lead and a sturdy spike to easily pierce even the hardest ground.

Simple to use, the Independent Earth Tester Reel and Spike has a connection point on the end of the lead to simply poke the tester probe into. The beauty of this set up is if your tester or lead fail you can easily replace them without having to replace the entire unit.

#### KEY FEATURES

- 15m lead
- Sturdy spike
- Connector on lead for voltage tester probe
- Tester sold separately



CAT NO.	DESCRIPTION
IET15M	15M LEAD, REEL & SPIKE FOR INDEPENDENT EARTH TESTING

### MARTL78 50MTR GREEN R2 CONTINUITY WIRE

This handy carry case reel contains a high quality continuity cable for earth testing. The cable can be easily retracted by winding it up much like a hose reel.

#### KEY FEATURES

- 50M Green continuity cable
- Handy Reel
- Retractable tidy cable
- Easy to use
- Quick connectors

CAT NO.	DESCRIPTION
MARTL78	50MTR GREEN R2 CONTINUITY WIRE ON A REEL

### MI2126 EARTH 2/3 SINGLE FUNCTION EARTH TESTER

The MI2126 Earth 2/3 is a high quality, professional grade test instrument for performing three-wire earth resistance measurements in accordance with European standard. EN61557-5, on which the estimation of earthing quality is based.

Designed and produced according to many years of experience in producing and dealing with earth resistance and electric installation test equipment.

#### KEY FEATURES

- Earth resistance measurement: instrument performs standard 3 wire earth resistance tests with two earthing rods
- Easy to use: only 3 buttons control all the operations of the test instrument and instruction manual explains various

earth resistance measuring methods

- The MI2126 is a battery operated instrument and can be easily placed with other test instruments for moving between tested items
- Reliable results even in the presence of stray currents
- Outstanding repeatability of test results especially in the case of high test probe resistance of various earthing structures (e.g. asphalt, sand, and stone)



CAT NO.	DESCRIPTION
MI2126	EARTH 2/3 SINGLE FUNCTION STANDARD SET

# PHASE TESTERS

## TN855 PHASE ROTATION METER

Comes with fused leads to offer overload protection to line workers who test on overhead LV lines. The leads are supplied at lengths conducive to allowing the unit to be connected across overhead LV lines to make the test. The double insulated leads are connected to shrouded probe with removable crocodile clips included.

### KEY FEATURES

- CAT IV 600V
- Lightweight
- Push button activation
- Heavy duty fused leads with HRC fuses
- Input Voltage 200-600V AC
- Frequency 50-60Hz
- 3x5amp HRC fuses



CAT NO.	DESCRIPTION
TN855	PHASE ROTATION METER - FUSED LEADS, CAT IV 600V

## TN895PR NON CONTACT PHASE ROTATION METER

Safety is always a priority in electrical work environments. With its non-contact clips, the TN895PR has been designed to ensure greater safety for its users. Eliminating any electrical or short circuit accidents caused by accidental contact between two metal points.

### KEY FEATURES

- Non-contact detector clips.
- Dual functions: Open phase and phase sequence detection.
- Designed for checking a wider range of 3-phase power source from 75V to 1000V AC.
- LED display lights with buzzer indicator.
- Brightness button feature for better visibility.
- Magnetic mounting feature.
- CATIV 600V



CAT NO.	DESCRIPTION
TN895PR	NON CONTACT PHASE ROTATION METER

## MARPSI4000 NON CONTACT PHASE ROTATION TESTER

This unit increases the safety and convenience of phase rotation checking. The static induction technology allows non-contact checking, so all you need to do is clip the crocodile clips around the conductors - there's no need to make contact with bare metal. A magnetised back allows hands free working.

### KEY FEATURES

- Input voltage: 75V - 1000V 3-Phase AC
- Frequency range: 45-65Hz
- Operating temperature & humidity: -10°C to 50°C, Max. 80% RH
- Cable length: approx. 800 mm
- Power source: 1.5V X 4 (AA or LR6) alkaline batteries
- Auto-off: After 5 mins of non activity
- Low battery warning: Power LED flashes
- CAT IV 600V



CAT NO.	DESCRIPTION
MARPSI4000	NON CONTACT PHASE ROTATION METER

## HV INSULATION TESTERS

### MI3202 GIGOHM 5KV INSULATION TESTER

GigaOhm 5kV is a high quality insulation and voltage tester with excellent price-performance ratio.

Five test voltages up to 5kV and 1TΩ resistance measuring range cover most of the industrial and power distribution applications. User friendly design is assured with a large LCD display. A rugged carrying case provides mechanical robustness needed for use in harsh environments..

#### FEATURES

- Quick Adjustment: Five preset test voltages (250V, 500V, 1000V, 2500V and 5000V)
- Fast charging: 5mA current source for quick charging of capacitive loads
- High safety level: CAT IV 600V for industrial applications
- Large display: LCD display with backlight for added comfort of use
- High quality accessories: Shielded test leads included in a standard set

#### STANDARDS

- Adheres to international IEC and EN standards



CAT NO.	DESCRIPTION
MI3202	GIGOHM 5KV INSULATION TESTER – STANDARD SET

### MI3201 TERAOHM 5KV PLUS INSULATION TESTER

#### KEY FEATURES

- Measuring range up to 10TΩ
- Wide range of DC test voltages: from 250V up to 5000V in steps of 25V
- Withstanding voltage: testing of insulation with programmable ramp test voltage from 250V up to 5kV and programmable threshold current
- Step voltage: insulation resistance measurement with five discrete proportionately set test voltages and programmable timer per step
- Automated testing: PI, DD, DAR calculations with automated resistance ranging. All data is displayed during one single measurement
- Guard test terminal for elimination of potential surface leakage currents
- Fault finding: fully programmable step voltage and withstand voltage test functions assist in diagnosing faults in insulation
- Graph R(t): real time resistance against time graph plotting facility to graphically illustrate the response of a material to an applied test voltage
- Automatic discharge of tested object after test
- Safe: high CAT IV 600V voltage protection
- Built-in charger & rechargeable batteries: instrument has a built-in charger and comes complete with a set of rechargeable NiMH batteries



CAT NO.	DESCRIPTION
MI3201	TERAOHM 5KV PLUS INSULATION TESTER

## MI3200 TERAOHM 10KV – INSULATION TESTER

### KEY FEATURES

- Measuring range up to 10TΩ
- Wide range of DC test voltages: from 500V up to 10000V in steps of 25V
- Withstanding voltage: testing of insulation with programmable ramp test voltage from 500V up to 10kV and programmable threshold current
- Step voltage: insulation resistance measurement with five discrete proportionately set test voltages and programmable timer per step
- Automated testing: PI, DD, DAR calculations with automated resistance ranging. All data is displayed during one single measurement
- Guard test terminal: for elimination of potential surface leakage currents
- Fully programmable step voltage and withstand voltage test functions assist in diagnosing faults in insulation
- Graph R(t): real time resistance against time graph plotting facility to graphically illustrate the response of a material to an applied test voltage
- Built-in timer: programmable timer from 1s up to 30min
- Automatic discharge of tested object after test
- Fast testing: 5mA current source for quick charging of capacitive load
- Safe: high CAT IV 600V voltage protection
- Built-in charger & rechargeable batteries: instrument has a built-in charger and comes complete with a set of rechargeable NiMH batteries



CAT NO.	DESCRIPTION
MI3200	TERAOHM 10KV INSULATION TESTER STANDARD SET

## MI3250 MICRO OHM 10A INSULATION TESTER

- Bidirectional resistance measurement from 0,1  $\mu\Omega$  up to 2000  $\Omega$  with test current up to 10 A;
- Highly efficient 10 A current source generates 10 A into 200 m $\Omega$  load for 15 min without overheating.
- High overvoltage protection [CAT IV / 300 V] allows measurement in substations and other points with low line resistance.
- Internal protection circuit protects user and instrument from inadvertent connection to lines.
- Custom limits can be set for PASS / FAIL evaluation of test result.
- 50 Hz / 60 Hz ripple detection and rejection.
- Instrument can be powered from mains or internal rechargeable battery.
- Instrument can be normally used while built-in fast battery charger charges the NiMh batteries.
- Lightweight portable design.
- Up to 1000 test results with timestamp can be stored in internal memory.
- PC SW HVLink PRO enables downloading, review, analyses and printing of test results.



CAT NO.	DESCRIPTION
MI3250	MICRO OHM 10A INSULATION TESTER – STANDARD SET

## MEASURING CATEGORIES PER IEC 61010-1

CATEGORY	DESCRIPTION	EXAMPLE
	CAT I Measurements in electrical circuits which are not directly connected to the mains	Telephone
	CAT II Measurements in electrical circuits which are directly connected to the low-voltage mains	Via plug, e.g. in household, office and laboratory appliances
	CAT III Measurements in building installations stationary consumers, distributor terminals, devices	Connected permanently to the distributor
	CAT IV Measurements at power sources for low-voltage installations	Meters, mains terminals, primary overvoltage protection devices

## LOCK OFF KIT

This convenient lock off kit works on most distribution boards and provides a safe way of ensuring that once the supply is isolated it stays isolated.

### KIT INCLUDES

- MCB Locks (5 different sizes)
- Padlock
- Steel safety hasp
- Black marker pen
- Carry case
- Warning Tags (Pack of 10)



CAT NO.	DESCRIPTION
MARLOKKIT1	LOCK OFF KIT, INCLUDES ALL COMPONENTS REQUIRED TO SAFELY LOCK OFF AN INSTALLATION

## INSTRUMENT ACCESSORIES

IMAGE	CODE	PRODUCT	DESCRIPTION
	A1014	TEST PROBE, BLACK	Test probe with 4mm connection is suitable for performing measurements both in mains outlets and in situations when no schuko outlet is present.
	A1015	TEST PROBE, BLUE	Test probe with 4mm connection is suitable for performing measurements both in mains outlets and in situations when no schuko outlet is present.
	A1016	TEST PROBE, RED	Test probe with 4mm connection is suitable for performing measurements both in mains outlets and in situations when no schuko outlet is present.
	A1062	TEST PROBE GREEN, 4m	Test probe with 4mm connection is suitable for performing measurements both in mains outlets and in situations when no schuko outlet is present.
	A1013	CROCODILE CLIP, BLACK	Crocodile clip ensures secure and permanent contact during the measurement on bus bars, fixing screws.
	A1064	CROCODILE CLIP, RED	Crocodile clip ensures secure and permanent contact during the measurement on bus bars, fixing screws.
	A1309	CROCODILE CLIP, GREEN	Crocodile clip ensures secure and permanent contact during the measurement on bus bars, fixing screws.
	A1310	CROCODILE CLIP, BLUE	Crocodile clip ensures secure and permanent contact during the measurement on bus bars, fixing screws.
	A1012	TEST LEAD, GREEN, 4m	Extension test lead for continuity measurements.
	A1011	TEST LEAD, 3 X 1.5m	3 wire test lead for measurements on single or three phase electrical installations.
	A1270	TIP COMMANDER (FOR SMARTEC)	Single phase 2 wire commander with test tip, TEST and MEM function keys for installation safety measurements.
	A1110	THREE PHASE ADAPTER	3-phase test adapter for installation safety testing on 3-phase sockets type 16 A 3CEE.
	A1111	THREE PHASE ADAPTER WITH SWITCH	Phase adapter with selection switch for installation safety testing on 3-phase sockets type 16 A 3CEE. The adapter allows seamless switching between measurements.

IMAGE	CODE	PRODUCT	DESCRIPTION
	S2026	EARTH TEST SET, 3-WIRE, 20m	Earth test set for earth resistance measurement on distance up to 20m, set includes: test lead, 20m, 2pcs; test lead, 4.5m earth spikes, 2pcs; soft carrying bag.
	S2027	EARTH TEST SET, 3-WIRE, 50m	Earth test set for earth resistance measurement on distance up to 50m; set includes: test lead, 50m, 2pcs; test lead, 4.5m, test lead, 1m, 2pcs; earth spikes, 2pcs; soft carrying bag.
	A1018	CURRENT CLAMP (LOW RANGE, LEAKAGE)	High accuracy current clamp 1000A/1A with jaw opening 52mm and fixed 1.5m cable for both load and low range/ leakage current measurement and for earth resistance measurement as well.
	A1033	CURRENT CLAMP 1000 A/1V	High accuracy current clamp 1000A/1V with jaw opening 52mm and fixed 1.5m cable for power measurements with Metrel power quality analysers.
	A1283	SHIELDED LEAKAGE CURRENT CLAMP	Current clamp with high resolution for accurate leakage current measurements.
	A1128	THERMOCOUPLE PROBE, TYPE K	Type K thermocouple probe with measuring range from -20°C to 1400°C for contact temperature measurements of various surfaces like motors, transformers, etc.
	A1020	SMALL SOFT CARRYING BAG	Small soft carrying bag for transport and storage of test instrument or accessories.
	A1289	SOFT CARRYING BAG	Large soft carrying bag for transport and storage of test instrument and belonging accessories.
	A1143	EURO Z 290 A	Euro Z 290A is the impedance tester which enables line/loop impedance measurements with an accuracy down to 0.1mΩ
	TL175	FLUKE TEST LEAD SET	Comfort grip probes with PVC insulated test leads with right angle banana plug, CAT IV 600V, CAT III 1000V, 10A rated.
	TL76	FLUKE SILICON TEST LEAD SET	Comfort grip probes with silicon insulated test leads with right angle banana plug, CAT IV 600V, CAT III 1000V, 10A rated.
	TL222	FLUKE SILICON TEST LEAD	1.5m silicon test lead with shrouded banana plug with right angle connector both ends, CAT IV 600V, CAT III 1000V, 10A rated.
	TL224	FLUKE SILICON TEST LEAD	1.5m silicon test lead with shrouded banana plug with right angle connector one end, straight the other, CAT IV 600V, CAT III 1000V, 10A rated.

IMAGE	CODE	PRODUCT	DESCRIPTION
	TP1	FLUKE FLAT BLADE TEST LEAD KIT	Flat blade to hold securely in, blade type wall sachet, CAT IV 600V, CAT III 1000V, 10A rated.
	TL220	FLUKE INDUSTRIAL TEST LEAD KIT	Flat blade contains AC220 alligator clip set TP1 slim reach test probes, T224 test lead (right to straight) CAT IV 600V, CAT III 1000V, 10A rated.
	TL223	FLUKE ELECTRICAL TEST LEAD KIT	Kit contains AC220 alligator clip, TP220 test probe set, TL222 test lead (Right to right) CAT IV 600V, CAT III 1000V. 10A rated.
	MARTL56	4MM FUSED TEST LEAD KIT	Fused test leads with double insulated silicone cable. Supplied with sprung retractable shroud.
	MARTL55	4MM FUSED TEST LEAD KIT	Fused test leads with double insulated silicone cable. Supplied with right angle fixed shroud.

# MERCHANDISING

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Utilux/TransNet Product Display Stands	249
Bin Boxes – Utilux & TransNet	249
ECOLight Product Display Stand	250
Bin Boxes – ECOLight	250



## RAYCHEM HEATSHRINK PRODUCT DISPLAY STAND

Our Raychem Heatshrink point of sale display stand is ideal for thin wall and heavy wall product.

Stand comes complete with 16 tubes to separate sizes Dual and Quad tubes also available on request.

For more information please contact your local TransNet sales representative or customer services.

- Easy assembly
- 16 individual tubes 100mm x 100mm, included
- 100mm x 200mm/ 100mm x 400mm tubes



HEATSHRINKTUBEDBL



HEATSHRINKTUBEQUAD



HEATSHRINKTRAY



HEATSHRINKSTAND

CAT NO.	DESCRIPTION
HEATSHRINKSTAND1	HEATSHRINK STAND COMPLETE EXCL PRODUCT
HEATSHRINKTUBEDBL	DOUBLE TUBE FOR HEATSHRINKSTAND 100 x 200mm
HEATSHRINKTUBEQUAD	QUAD TUBE FOR HEATSHRINKSTAND 100 x 400mm
HEATSHRINKTRAY	BASE TRAY FOR HEATSHRINKSTAND1

## UTILUX/TRANSNET PRODUCT DISPLAY STANDS

Sturdy metal stands designed to hold utilux and TransNet product.

Hangsell stand comes complete with header card and 40 hooks.

BINBOXSTAND comes complete with header card and 8 mesh baskets. For more information please contact your local TransNet sales representative or customer services.



5-361506-9



5-361506-8



T/NETBINBOXSINGLE



T/NETBINBOXDOUBLE



CAT NO.	DESCRIPTION
HANGSELLSTAND	UTILUX HANG SELL STAND COMPLETE WITH 40 HOOKS
BINBOXSTAND	UTILUX BIN BOX STAND COMPLETE EXCLUDES BIN BOXES
5-361506-9	UTILUX SINGLE BIN BOX
5-361506-8	UTILUX DOUBLE BIN BOX
T/NETBINBOX SINGLE	TRANSNET SINGLE BIN BOX
T/NETBINBOX DOUBLE	TRANSNET DOUBLE BIN BOX

## ECOLIGHT PRODUCT DISPLAY STANDS

Sturdy metal stands designed to hold ECOLight products both hang sell and boxed products in baskets.

Stand comes complete with hooks, header card and mesh shelves.

For more information please contact your local TransNet sales representative or customer services.



ECOBINBOXDOUBLE

CAT NO.	DESCRIPTION
HANGSELLSTANDECO	ECOLIGHT HANG SELL STAND COMPLETE WITH HOOKS & SHELVES
HANGSELLSHELF	MESH SHELF FOR ECOLIGHT HANG SELL STAND
ECOBINBOXDOUBLE	ECOLIGHT BIN BOX DOUBLE SIZE

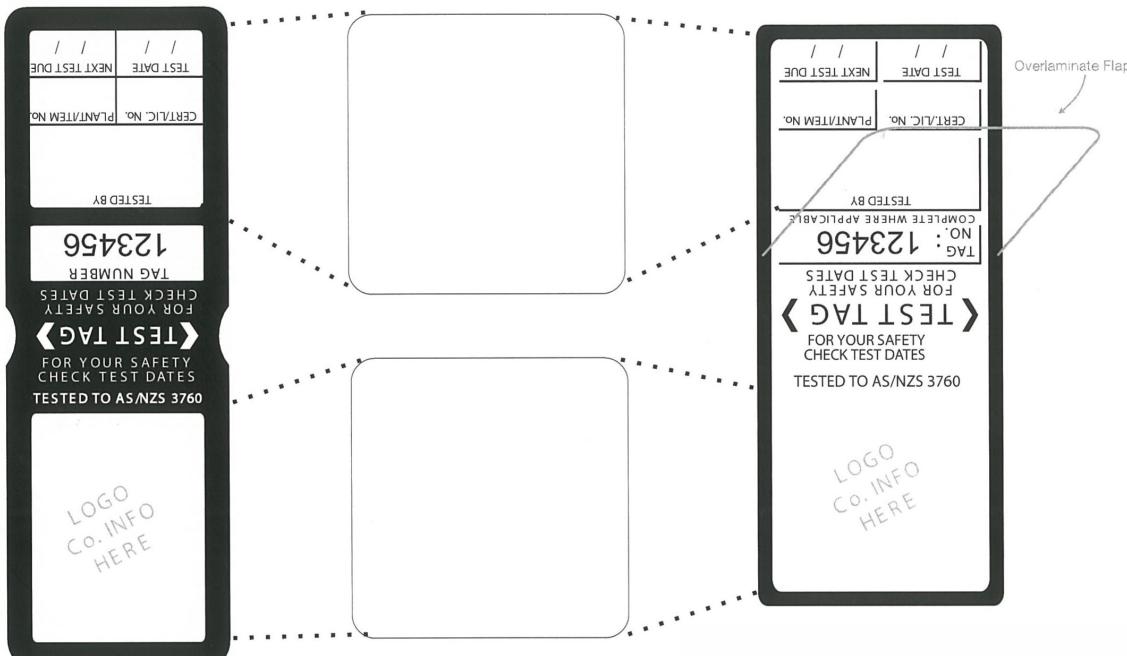
# CUSTOM BUILD PRODUCT ORDER FORMS

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## CUSTOMISED TEST TAGS

1. Tick appropriate tag style
2. Fill out required information in spaces provided

### 1. TAG TYPE



Heavy Duty Tags Required

Medium Duty Tags Required

### 2. CUSTOMER DETAILS

Date:

Sales Rep:

Customer:

Branch:

Contact Person:

Email:

Test Tag For:

### 3. REQUIRED QUANTITY & COLOUR

Qty	Tag Colour	Qty	Tag Colour
_____	RED	_____	BLACK
_____	GREEN	_____	BURGUNDY
_____	BLUE	_____	GREY
_____	YELLOW	_____	METALLIC SILVER
_____	ORANGE	_____	METALLIC GOLD
_____	WHITE	(Minimum 1000 tags/10packs per colour)	

### 4. SPECIAL REQUESTS

List Requirements:

Specially manufactured products cannot be returned for credit.

5. FAX OR EMAIL THIS FORM – 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

#### TRANSNET PURCHASING USE ONLY

Purchase Order No:

Requested by:

Date:

## CADWELD MOLD RENTAL

1. Tick a box to identify the mold size you require
2. Enter number of connections to be made (10 weld metals will be charged for & supplied with each rental)
3. Complete the customer details
4. Complete the end user details
5. Fax or email to TransNet



### 1. CONNECTION SELECTION

NOTE: All rental molds are for GT type connection style, Kit contains all parts required to make 10 connections

#### Hire Molds for 13mm Ground Rods

- 35mm<sup>2</sup>
- 50mm<sup>2</sup>
- 70mm<sup>2</sup>
- 95mm<sup>2</sup>
- 120mm<sup>2</sup>

#### Hire Molds for 15mm Ground Rods

- 35mm<sup>2</sup>
- 50mm<sup>2</sup>
- 70mm<sup>2</sup>
- 95mm<sup>2</sup>
- 120mm<sup>2</sup>



### 2. NUMBER OF CONNECTIONS

NOTE: Minimum of 10 connections catered for in each rental

QTY \_\_\_\_\_

### 3. CUSTOMER/WHOLESALE DETAILS

Company: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

### 4. END USER/CONTRACTOR DETAILS

Company: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Contact No: \_\_\_\_\_

Date Required: \_\_\_\_\_

Delivery Address (Customer Can Collect): \_\_\_\_\_

Estimated Rental Days (No Half Days): \_\_\_\_\_

#### \*RETURN MOLD KIT TO – CONTRACT CONNECTIONS, 20 Kerwyn Ave, East Tamaki

Additional costs will be incurred if goods are damaged

#### 5. FAX OR EMAIL THIS FORM – 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

#### TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested By: \_\_\_\_\_

Date: \_\_\_\_\_

#### CONTRACT CONNECTIONS LTD USE ONLY

Ship Date: \_\_\_\_\_

Actual Return Date: \_\_\_\_\_

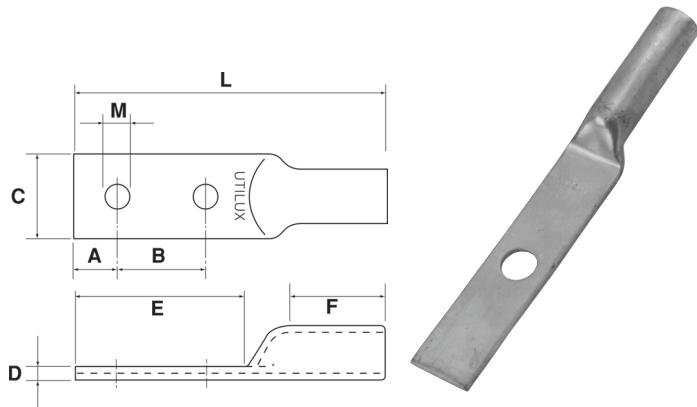
Total Number of Days Hire: \_\_\_\_\_

Return Condition of Goods: \_\_\_\_\_

Entered By: \_\_\_\_\_

## COPPER LUGS CG

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

Catalogue No.	Conductor Range mm <sup>2</sup>	A MIN	B MAX	C REF	D MAX	E MAX	F MAX	L MAX	M MAX
<input type="checkbox"/> CGX25/1	25	8.0	54	16.7	1.9	70	40	115	M10
<input type="checkbox"/> CGX35/1	35	8.0	74	18.2	2.7	90	45	140	M12
<input type="checkbox"/> CGX50/1	50	11.0	78	20.6	2.8	100	50	159	M12
<input type="checkbox"/> CGX70/1	70	11.0	78	21.0	3.2	100	50	161	M12
<input type="checkbox"/> CGX95/1	95	12.0	76	25.0	4.0	100	50	163	M12
<input type="checkbox"/> CGX120/1	120	15.0	70	30.0	4.8	100	50	165	M20
<input type="checkbox"/> CGX150/1	150	18.0	64	34.0	5.4	100	50	166	M20
<input type="checkbox"/> CGX185/1	185	18.0	64	37.0	5.2	100	55	173	M20
<input type="checkbox"/> CGX240/1	240	23.0	64	42.0	7.1	110	90	191	M20
<input type="checkbox"/> CGX300/1	300	23.0	64	46.0	7.9	110	90	192	M20
<input type="checkbox"/> CGX400/1	400	23.0	64	49.6	7.9	110	70	207	M20
<input type="checkbox"/> CGX500/1	500	23.0	64	54.8	8.2	110	70	213	M20
<input type="checkbox"/> CGX630/1	630	25.0	50	63.5	11.5	100	70	205	M20

All dimensions in mm

### 2. CONDUCTOR DETAILS

Metric       Imperial  
 Flexible  
 Compacted  
 Other

Area mm<sup>2</sup>/in<sup>2</sup>


---

 Stranding

Comments: \_\_\_\_\_

### 3. REQUIRED SPECIFICATIONS

**Dimensions: (IF NON STANDARD)**
A: \_\_\_\_\_ mm      B: \_\_\_\_\_ mm<sup>2</sup>

E: \_\_\_\_\_ mm      F: \_\_\_\_\_ mm

L: \_\_\_\_\_ mm      Stud M: \_\_\_\_\_ mm

Qty: \_\_\_\_\_

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

### 5. FAX OR EMAIL THIS FORM – 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

#### TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

#### TE ENERGY INTERNAL SALES USE ONLY

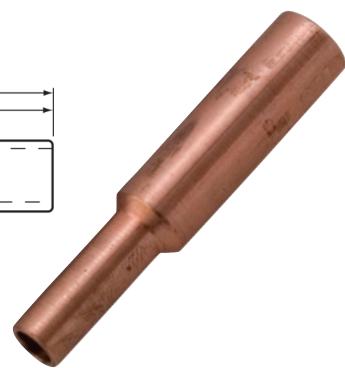
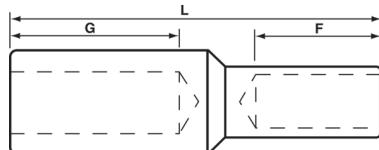
Part No: CG

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## COPPER LINKS CKR

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

All dimensions in mm

Catalogue No.	Conductor Range mm <sup>2</sup>	F RECOMMENDED	G LENGTH	L MAX
<input type="checkbox"/> CKX10-35/1	10-35	24	24	60
<input type="checkbox"/> CKX50-70/1	50-70	24	24	60
<input type="checkbox"/> CKX95-120/1	95-120	38	38	92
<input type="checkbox"/> CKX150-185/1	150-185	38	38	92
<input type="checkbox"/> CKX150-300/	150-300	44	44	137
<input type="checkbox"/> CKX150-500/1	150-500	59	59	145
<input type="checkbox"/> CKX630/1	630	59	59	145

### 2. CONDUCTOR DETAILS

### 3. REQUIRED SPECIFICATIONS

<b>LARGE END-AI</b>		<b>SMALL END-CU</b>		<b>DIMENSIONS (IF NON STANDARD)</b>	
<input type="checkbox"/> Metric	<input type="checkbox"/> Imperial	<input type="checkbox"/> Metric	<input type="checkbox"/> Imperial	F:	mm
<input type="checkbox"/> Flexible		<input type="checkbox"/> Flexible		G:	mm
<input type="checkbox"/> Compacted		<input type="checkbox"/> Compacted		Qty:	
<input type="checkbox"/> Other		<input type="checkbox"/> Other			
Area mm <sup>2</sup> /in <sup>2</sup>		Area mm <sup>2</sup> /in <sup>2</sup>			
Stranding		Stranding			

Comments: \_\_\_\_\_

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

### 5. FAX OR EMAIL THIS FORM – 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

#### TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

#### TE ENERGY INTERNAL SALES USE ONLY

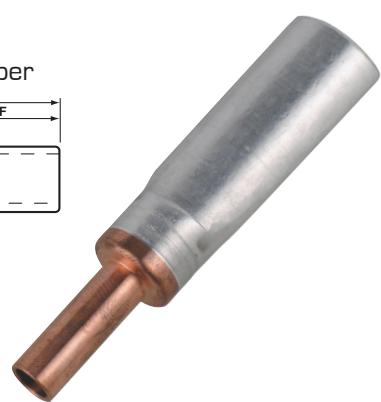
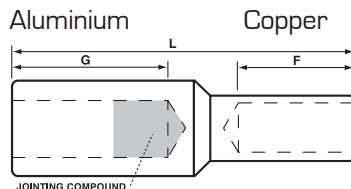
Part No: CK

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## BI-METAL LINKS BKR

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

All dimensions in mm

Catalogue No.	Conductor Range mm <sup>2</sup>	Cu-F RECOMMENDED	A1-G LENGTH	L MAX
<input type="checkbox"/> BKX10-35/1	10-35	21.5	32	70
<input type="checkbox"/> BKX50-70/1	50-70	21.5	32	70
<input type="checkbox"/> BKX95-120/1	95-120	40	60	120
<input type="checkbox"/> BKX150-185/	150-185	40	60	120
<input type="checkbox"/> BKX240-300/1	240-300	40	60	120
<input type="checkbox"/> BKX400-630/1	400-630	60	70	160

### 2. CONDUCTOR DETAILS

### 3. REQUIRED SPECIFICATIONS

Dimensions: (IF NON-STANDARD)

**LARGE END MATERIAL - AI**

<input type="checkbox"/> Metric	<input type="checkbox"/> Imperial	Area mm <sup>2</sup> /in <sup>2</sup>
<input type="checkbox"/> Flexible		
<input type="checkbox"/> Compacted		Stranding
<input type="checkbox"/> Other		

**SMALL END MATERIAL - CU**

<input type="checkbox"/> Metric	<input type="checkbox"/> Imperial	Area mm <sup>2</sup> /in <sup>2</sup>
<input type="checkbox"/> Flexible		F: _____ mm
<input type="checkbox"/> Compacted		G: _____ mm
<input type="checkbox"/> Other		Stranding Qty: _____

Dimensions: (IF NON-STANDARD)

<input type="checkbox"/> Metric	<input type="checkbox"/> Imperial	Area mm <sup>2</sup> /in <sup>2</sup>
<input type="checkbox"/> Flexible		F: _____ mm
<input type="checkbox"/> Compacted		G: _____ mm
<input type="checkbox"/> Other		Stranding Qty: _____

Comments: \_\_\_\_\_

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

5. FAX OR EMAIL THIS FORM – 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

TE ENERGY INTERNAL SALES USE ONLY

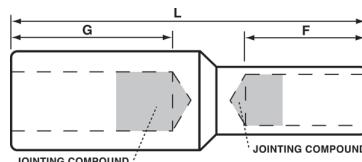
Part No: BK

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## ALUMINIUM LINKS AKR

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

All dimensions in mm

Catalogue No.	Conductor Range mm <sup>2</sup>	F RECOMMENDED	G LENGTH	L MAX
<input type="checkbox"/> AKX10-35/1	10-35	32	32	80
<input type="checkbox"/> AKX50-70/1	50-70	32	32	136
<input type="checkbox"/> AKX95-120/1	95-120	60	60	136
<input type="checkbox"/> AKX150-185/1	150-185	60	60	142
<input type="checkbox"/> AKX240-300/1	240-300	60	60	142
<input type="checkbox"/> AKX400-630/1	400-630	70	70	142

### 2. CONDUCTOR DETAILS

#### LARGE END MATERIAL-AI

Metric     Imperial  
 Flexible  
 Compacted  
 Other

Area mm<sup>2</sup>/in<sup>2</sup>

Stranding

#### SMALL END MATERIAL-Cu

Metric     Imperial  
 Flexible  
 Compacted  
 Other

Area mm<sup>2</sup>/in<sup>2</sup>

Stranding

#### Dimensions: (IF NON-STANDARD)

F: \_\_\_\_\_ mm

G: \_\_\_\_\_ mm

Qty: \_\_\_\_\_

Comments: \_\_\_\_\_

### 3. REQUIRED SPECIFICATIONS

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

### 5. FAX OR EMAIL THIS FORM – 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

#### TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

#### TE ENERGY INTERNAL SALES USE ONLY

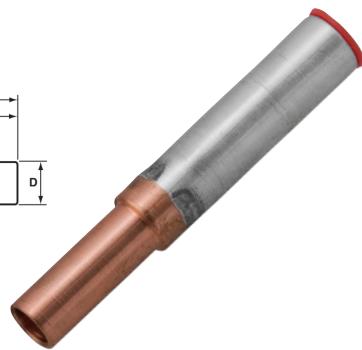
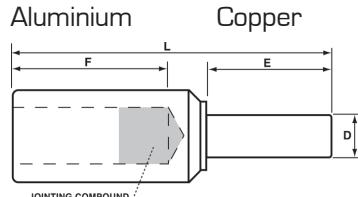
Part No: AK

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## BI-METAL STALK LUGS BS

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

All dimensions in mm

Catalogue No.	Conductor Range mm <sup>2</sup>	D MAX	E-Cu MAX	F-Al MAX	L MAX
<input type="checkbox"/> BSX10-35/1	10-35	12	30	32	70
<input type="checkbox"/> BSX50-70/1	50-70	16	30	32	70
<input type="checkbox"/> BSX95-120/1	95-120	22	50	60	120
<input type="checkbox"/> BSX150-185/1	150-185	26	50	60	120
<input type="checkbox"/> BSX240-300/1	240-300	33	50	60	120
<input type="checkbox"/> BSX400-630/1	400-630	45	50	60	120

### 2. CONDUCTOR DETAILS

Metric       Imperial  
 Flexible  
 Compacted  
 Other

Area mm<sup>2</sup>/in<sup>2</sup>

\_\_\_\_\_

Stranding

\_\_\_\_\_

Comments: \_\_\_\_\_

### 3. REQUIRED SPECIFICATIONS

Stalk Diameter [D]: \_\_\_\_\_ mm

Dimensions: (IF NON-STANDARD)

E: \_\_\_\_\_ mm

F: \_\_\_\_\_ mm

Qty: \_\_\_\_\_

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

5. FAX OR EMAIL THIS FORM - 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

TE ENERGY INTERNAL SALES USE ONLY

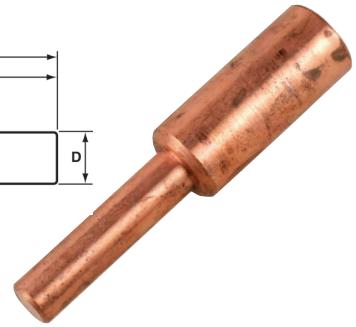
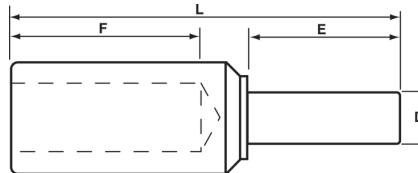
Part No: BS

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## COPPER STALK LUGS CS

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

All dimensions in mm

Catalogue No.	Conductor Range mm <sup>2</sup>	D MAX	E RECOMMENDED	F LENGTH	L MAX
<input type="checkbox"/> CSX10-35/1	10-35	12	50	21.5	92
<input type="checkbox"/> CSX50-70/1	50-70	16	50	21.5	92
<input type="checkbox"/> CSX95-120/1	95-120	22	50	35	237
<input type="checkbox"/> CSX150-185/1	150-185	26	70	35	237
<input type="checkbox"/> CSX240-300/1	240-300	33	90	50	237
<input type="checkbox"/> CSX400-500/1	400-500	39	100	60	212

### 2. CONDUCTOR DETAILS

Metric       Imperial  
 Flexible  
 Compacted  
 Other

Area mm<sup>2</sup>/in<sup>2</sup>

\_\_\_\_\_

Stranding

\_\_\_\_\_

Comments: \_\_\_\_\_

### 3. REQUIRED SPECIFICATIONS

Stalk Diameter [D]: \_\_\_\_\_ mm

Dimensions: [IF NON-STANDARD]

E: \_\_\_\_\_ mm

F: \_\_\_\_\_ mm

Qty:

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

5. FAX OR EMAIL THIS FORM - 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

TE ENERGY INTERNAL SALES USE ONLY

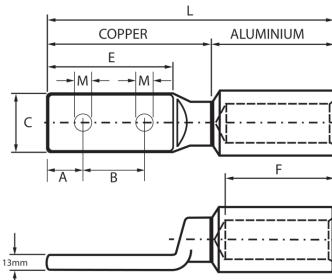
Part No: CS

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## BI-METAL LONG PALM LUGS BGLP

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



All dimensions in mm

### 1. STANDARDS & GUIDELINES

Catalogue No.	Conductor Range mm <sup>2</sup>	A MIN	E MAX	C REF	E MAX	F MAX	L MAX	M MAX
<input type="checkbox"/> BGLPX120	95-120	12	81	50	105	70	240	M20
<input type="checkbox"/> BGLPX185	150-185	18	69	50	105	70	240	M20
<input type="checkbox"/> BGLPX300	240-300	23	59	50	105	70	240	M20
<input type="checkbox"/> BGLPX630	400-630	23	59	50	105	70	240	M20

### 2. CONDUCTOR DETAILS

Metric       Imperial  
 Flexible  
 Compacted  
 Other

Area mm<sup>2</sup>/in<sup>2</sup>

Stranding

Comments: \_\_\_\_\_

### 3. REQUIRED SPECIFICATIONS

Dimensions: (IF NON-STANDARD)

A: \_\_\_\_\_ mm      B: \_\_\_\_\_ mm

E: \_\_\_\_\_ mm      F: \_\_\_\_\_ mm

L: \_\_\_\_\_ mm      Stud M: \_\_\_\_\_ mm

Qty: \_\_\_\_\_

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

5. FAX OR EMAIL THIS FORM – 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

TE ENERGY INTERNAL SALES USE ONLY

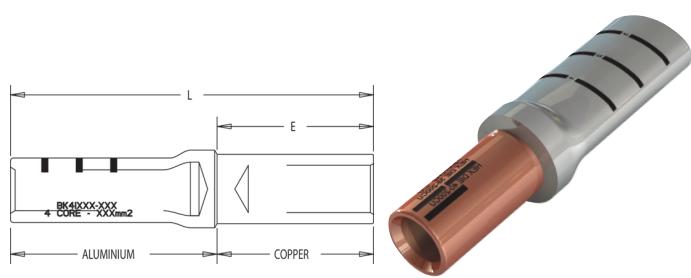
Part No: BGLP

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## BI-METAL SECTOR LINKS BKS

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

All dimensions in mm

Catalogue No.	Conductor Sector mm <sup>2</sup>	Conductor Range Cu - mm <sup>2</sup>	Cu - E Length MAX	L MAX
<input type="checkbox"/> BKSX	35-240	16-300	70	160

### 2. CONDUCTOR DETAILS

#### LARGE END MATERIAL-AI

<input type="checkbox"/> 3 Core	<input type="checkbox"/> 35mm <sup>2</sup>	<input type="checkbox"/> 50mm <sup>2</sup>	<input type="checkbox"/> 70mm <sup>2</sup>
<input type="checkbox"/> 4 Core	<input type="checkbox"/> 95mm <sup>2</sup>	<input type="checkbox"/> 120mm <sup>2</sup>	<input type="checkbox"/> 150mm <sup>2</sup>
	<input type="checkbox"/> 185mm <sup>2</sup>		<input type="checkbox"/> 240mm <sup>2</sup>

#### SMALL END MATERIAL-Cu

<input type="checkbox"/> Metric	<input type="checkbox"/> Imperial	Area mm <sup>2</sup> /in <sup>2</sup>
<input type="checkbox"/> Flexible		_____
<input type="checkbox"/> Compacted		Stranding
<input type="checkbox"/> Other		_____

### 3. REQUIRED SPECIFICATIONS

Dimensions: (IF NON-STANDARD)

E: \_\_\_\_\_ mm   Qty: \_\_\_\_\_

Comments: \_\_\_\_\_

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

5. FAX OR EMAIL THIS FORM - 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

TE ENERGY INTERNAL SALES USE ONLY

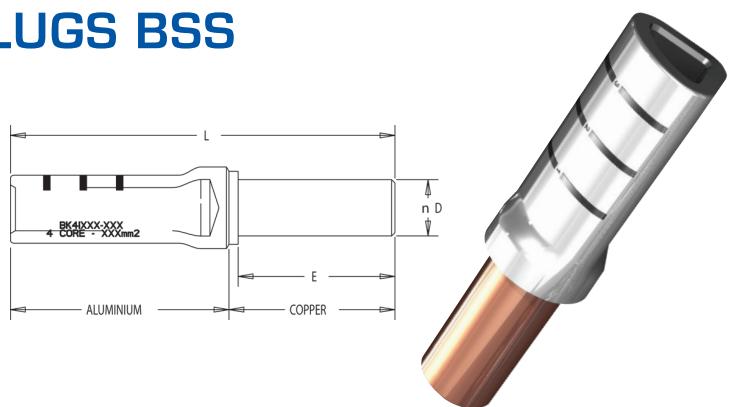
Part No: BKS

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

## BI-METAL SECTOR STALK LUGS BSS

1. Tick a box to identify the standard blank which is closest to your required design.
2. Complete the Conductor Details section inserting your requirements. Please note all details are mandatory.
3. Enter your required dimensions staying within the guidelines in the standards table.
4. Complete customer contact and authorisation details. Please note all details are mandatory.
5. Fax or email to TransNet.



### 1. STANDARDS & GUIDELINES

All dimensions in mm

Catalogue No.	Conductor Sector mm <sup>2</sup>	D MAX	Cu - E MAX	L MAX
<input type="checkbox"/> BSSX	35-240	35	70	160

### 2. CONDUCTOR DETAILS

#### LARGE END MATERIAL - AI

3 Core    35mm<sup>2</sup>    50mm<sup>2</sup>    70mm<sup>2</sup>    95mm<sup>2</sup>    120mm<sup>2</sup>    150mm<sup>2</sup>    185mm<sup>2</sup>    240mm<sup>2</sup>

4 Core

### 3. REQUIRED SPECIFICATIONS

Stalk Diameter (D): \_\_\_\_\_ mm

#### Dimensions: (IF NON-STANDARD)

E: \_\_\_\_\_ mm

Qty: \_\_\_\_\_

Comments: \_\_\_\_\_

### 4. CUSTOMER DETAILS

Company: \_\_\_\_\_

Authorised by: \_\_\_\_\_

Contact No: \_\_\_\_\_

Order No: \_\_\_\_\_

Date: \_\_\_\_\_

Specially manufactured products cannot be returned for credit.

5. FAX OR EMAIL THIS FORM - 0800 442 183. +649 274 5490, sales@transnet.co.nz

FOR ASSISTANCE CALL TRANSNET ON 0800 442 182 OR +649 274 3340

#### TRANSNET PURCHASING USE ONLY

Purchase Order No: \_\_\_\_\_

Requested by: \_\_\_\_\_

Date: \_\_\_\_\_

#### TE ENERGY INTERNAL SALES USE ONLY

Part No: BSS

Sales Order No: \_\_\_\_\_

Entered by: \_\_\_\_\_

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Overhead Conductors	266
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## CONVERSION TABLES FOR NON-METRIC CABLE SIZES

SWG	METRIC mm <sup>2</sup>
33	0.0507
32	0.0591
31	0.0682
30	0.0779
29	0.0937
28	0.0111
27	0.0136
26	0.0164
25	0.0203
24	0.0245
23	0.029
22	0.0397
21	0.0519
20	0.0657
19	0.81
18	1.17
17	1.59
16	2.08
15	2.63
14	3.24
13	4.29
12	5.48
10	8.30

AMERICAN AWG	METRIC mm <sup>2</sup>
250 MCM	127
300 MCM	152
350 MCM	177
400 MCM	203
450 MCM	228
500 MCM	253
550 MCM	279
600 MCM	304
650 MCM	329
700 MCM	355
750 MCM	380
800 MCM	405
850 MCM	431
900 MCM	456
950 MCM	481
1000 MCM	507
1100 MCM	557
1200 MCM	608
1300 MCM	659
1400 MCM	709
1500 MCM	760
1600 MCM	811
1700 MCM	861
1800 MCM	912
1900 MCM	963
2000 MCM	1010

AMERICAN AWG	METRIC mm <sup>2</sup>
30	0.0507
29	0.0645
28	0.0806
27	0.102
26	0.128
25	0.163
24	0.205
23	0.259
22	0.324
21	0.412
20	0.519
19	0.652
18	0.82
17	1.04
16	1.31
15	1.65
14	2.08
13	2.63
12	3.31
11	4.17
10	5.26
9	6.63
8	8.37
7	10.6
6	13.3
5	16.8
4	21.2
3	26.7
2	33.6
1	42.4
0	53.5
2/0	67
3/0	85
4/0	107

IMPERIAL in <sup>2</sup>	METRIC mm <sup>2</sup>
0.4	267
0.5	328
0.6	399
0.75	489
0.85	557
1.0	683
1.25	807
1.5	1050

IMPERIAL in <sup>2</sup>	METRIC mm <sup>2</sup>
0.001	0.657
0.0015	0.981
0.002	1.28
0.003	1.97
0.0032	2.08
0.0045	2.98
0.007	4.60
0.01	6.81
0.0145	9.59
0.0225	14.5

IMPERIAL in <sup>2</sup>	METRIC mm <sup>2</sup>
0.03	18.6
0.04	26.0
0.06	39.4
0.075	49.9
0.1	66.3
0.12	76.8
0.15	97.2
0.2	129
0.25	162
0.3	199

**CABLE CROSS SECTIONS –  
ANNEALED ALUMINIUM AND COPPER STRANDED CONDUCTORS**

METRIC				IMPERIAL			
NOM. CROSS SECTIONAL AREA mm <sup>2</sup>	NUMBER & NOMINAL DIA. OF WIRES mm	NOM. DIAMETER OF CONDUCTORS mm	NOM. CROSS SECTIONAL AREA mm <sup>2</sup>	NUMBER & NOMINAL DIA. OF WIRES inch	NOM. CROSS SECTIONAL AREA in <sup>2</sup>	NOM. DIAMETER OF CONDUCTORS mm	
1	1/1.13	1.13	.97	1/.044	.0015	1.12	
-	-	-	1.25	3/.029	.0019	1.59	
1.5	1/1.38	1.38	-	-	-	-	
-	-	-	1.93	3/.036	.003	1.97	
2.5	7/0.67	2.01	-	-	-	-	
-	-	-	2.93	7/.029	.0045	2.21	
4	7/0.85	2.55	-	-	-	-	
-	-	-	4.52	7/.036	.007	2.74	
6	7/1.04	3.12	-	-	-	-	
-	-	-	6.75	7/.044	.010	3.35	
-	-	-	9.43	7/.052	.0146	3.96	
10	7/1.35	4.05	-	-	-	-	
-	-	-	14.28	7/.064	.0025	4.88	
16	7/1.35	5.10	-	-	-	-	
-	-	-	18.29	19/.044	.03	5.59	
25	7/2.14	6.42	25.5	19/.052	.04	6.60	
35	19/1.53	7.65	-	-	-	-	
-	-	-	38.7	19/.064	.06	8.13	
50	19/1.78	8.90	-	-	-	-	
-	-	-	65.1	19/.083	.10	10.5	
70	19/2.14	10.70	-	-	-	-	
-	-	-	75.3	37/.064	.12	11.4	
95	19/2.52	12.60	95.3	37/.072	.15	12.8	
120	37/2.03	14.21	126.7	37/.083	.20	14.8	
150	37/2.25	15.75	-	-	-	-	
-	-	-	159.1	37/.093	.25	16.5	
185	37/2.25	17.64	-	-	-	-	
-	-	-	195.1	37/.103	.30	18.3	
240	61/2.25	20.25	-	-	-	-	
-	-	-	262.2	61/.093	.40	21.3	
300	61/2.52	22.68	-	-	-	-	
-	-	-	321.6	61/.103	.50	23.5	
-	-	-	391.1	91/.093	.60	26.0	
400	61/2.85	25.65	-	-	-	-	
-	-	-	479.7	91/.103	.75	28.8	
500	61/3.20	28.80	-	-	-	-	
630	127/2.52	32.76	-	-	-	-	
-	-	-	669.4	127/.103	1.00	34.0	
800	127/2.85	37.05	800.00	127/.112	1.24	36.92	
1000	127/3.20	41.60	1000.0	127/.125	1.50	41.34	

## OVERHEAD CONDUCTORS

AAC		
CONDUCTOR CODE NAME	NUMBER OF STRANDS/ WIRE DIAMETER	O.D. mm
BEE	7/4.90	14.70
BEETLE	19/2.66	13.33
BUTTERFLY	19/4.64	23.25
CATERPILLAR	19/3.50	17.70
CENTIPEDE	37/3.78	26.46
CHAFER	19/3.78	18.90
CICADA	37/4.65	32.54
COCKROACH	19/4.21	21.10
CRICKET	7/5.35	16.10
FLY	7/3.40	10.20
GNAT	7/2.05	6.62
GRASSHOPPER	7/3.91	11.70
HORNET	19/3.25	16.25
HUHU	37/2.52	17.60
KUTU	7/3.00	9.00
LADYBIRD	7/2.80	8.40
MATA	19/3.86	19.30
MOKA	7/4.09	12.26
NAMU	7/2.11	6.33
POKO	7/2.36	7.08
RANGO	7/3.66	10.98
SPIDER	19/3.40	19.94
WASP	7/4.40	13.20
WEKE	7/4.72	14.16
WETA	19/3.35	16.75

SBC		
CONDUCTOR CODE NAME	O.D. mm	
FLOUNDER	6.70	
HAKE	10.41	
LAMPREY	8.97	
MULLET	4.90	

AAAC		
CONDUCTOR CODE NAME	NUMBER OF STRANDS/ WIRE DIAMETER	O.D. mm
ARGON	7/1.75	5.25
BORON	7/2.25	6.75
CHLORINE	7/2.50	7.50
CHROMIUM	7/2.75	8.25
FLUORINE	7/3.00	9.00
HELIUM	7/3.75	11.30
HYDROGEN	7/4.50	13.50
IODINE	7/4.75	14.30
KRYPTON	19/3.25	16.30
LUTETIUM	19/3.50	17.50
NEON	19/3.75	18.80
NITROGEN	37/3.00	21.00
NOBELIUM	37/3.25	22.80
OXYGEN	19/4.75	23.80
PHOSPHORUS	37/3.75	26.30
SELENIUM	61/3.25	29.30
SILICON	61/3.50	31.50
SULPHUR	61/3.75	33.80
XENON	91/4.50	49.50

ACSR		
CONDUCTOR CODE NAME	NUMBER OF STRANDS/ WIRE DIAMETER	O.D. mm
CHUKAR	84/3.69-19/2.21	40.69
COYOTE	26/2.54-7/1.91	15.90
DINGO	18/3.35-1/3.35	16.75
DOG	6/4.72-7/1.57	14.15
FERRET	6/3.00-1/3.00	9.00
FOX	6/2.80-1/2.80	8.38
GOAT	30/3.71-7/3.71	25.96
GOPHER	6/2.36-1/2.36	7.08
HARE	6/4.72-1/4.72	14.17
HYENA	7/4.39-7/1.93	14.60
JAGUAR	18/3.86-1/3.86	19.30
MAGPIE	3/2.11-4/2.11	6.33
MINK	6/3.66-1/3.66	10.98
MOA	76/3.72-7/2.89	38.40
PETREL	12/2.34-7/2.34	11.71
RABBIT	6/3.35-1/3.35	10.00
RACCOON	6/4.09-1/4.09	12.30
SQUIRREL	6/2.10-1/2.10	6.33
SWAN	6/2.12-1/2.12	6.35
TIGER	30/2.36-7/2.36	16.50
WAXWING	18/3.10-1/3.10	15.47
WOLF	30/2.60-7/2.60	18.13
ZEBRA	54/3.18-7/3.18	28.62

## STRANDED HARD DRAWN COPPER CONDUCTOR SIZES - METRIC AND IMPERIAL

METRIC			IMPERIAL		
CONDUCTOR STRANDING	CONDUCTOR OD. mm	CONDUCTOR OD. inch	CONDUCTOR STRANDING	CONDUCTOR OD. mm	CONDUCTOR OD. inch
7/1.00	3.00	.118	7/036	2.7	.108
7/1.25	3.75	.148	7/048	3.7	.144
7/1.75	5.25	.207	7/064	4.9	.192
7/2.0	6.00	.236	7/080	6.1	.240
7/2.75	8.25	.325	19/064	8.1	.320
19/1.75	8.75	.345	7/118	9.0	.354
19/2.0	10.0	.394	7/136	10.3	.408
7/3.50	10.5	.413	19/083	10.5	.415
37/1.75	12.25	.484	37/072	12.8	.504
19/2.75	13.75	.541	-	-	-
19/3.00	15.0	.591	19/116	14.7	.580
37/2.50	17.5	.689	37/093	16.5	.651
37/2.75	19.25	.758	37/103	18.3	.721
37/3.00	21.0	.827	37/118	21.0	.826
61/2.75	24.75	.974	91/093	26.0	1.023

PRODUCT	PAGE	PRODUCT	PAGE
<b>1-9</b>		CABLE KNIFE - 1000V	214
1000V INSULATED TOOLS	209	CABLE PULLING LUBRICANT	131
12 TONNE CRIMP DIES	197	CABLE STRIPPERS	202
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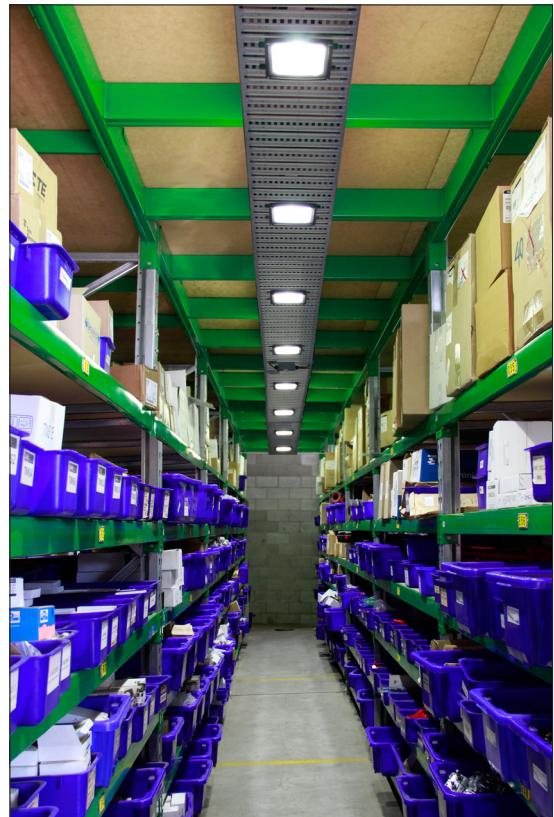
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## ECOLight LED – Increase Light Level, and Save Energy!



**Before:** Low level picking isle illuminated by fluorescent tubes, poor light spread.



**After:** Low level picking isle illuminated by ECOLight LEDFL11 floodlights mounted in cable tray and operated by motion sensor to save even more energy.

## TE Energy

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