

# OVERHEAD COVERED CONDUCTOR SYSTEMS

FOR HV ABC, LV ABC, CCT



[www.transnet.co.nz](http://www.transnet.co.nz)



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# ABOUT TRANSNET NZ LIMITED

## TRANSNET COMPANY OVERVIEW

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 three stocking distribution facilities in Australasia, and 24hr contact, TransNet is able to offer local support and fast delivery.

TransNet is one of the largest suppliers to our industry in Australasia, offering the most diverse range of products and support. We have a switchgear workshop, an R&D workshop and a Raychem kitting room on site in our Auckland Head Office and we are well equipped to offer training and support for all our products.

At TransNet we pride ourselves on the ability to react quickly to any situation and have product to you whenever and wherever you need it. Our staff are knowledgeable and happy to help, we have a number of technical specialists in a range of product areas, all ready to assist if and when required.

As the sole New Zealand Distributor of TE Connectivity Energy products including brands such as Raychem, Utilux, AMP and Guro, we have the local and international support and expertise of one of the largest manufacturers in our business. TE Connectivity Energy has a research and development programme second to none, continuously improving existing products, while designing and testing new products to improve network reliability. We are proud to offer an extensive range of quality brands from around the globe for a holistic approach to supply in the electricity industry.



## ENVIRONMENTAL RESPONSIBILITY



At TransNet we take environmental responsibility seriously and as part of our commitment to the environment we have implemented a range of policies and practices to do our part in protecting the environment. We have achieved and maintained ISO 14001 - Environmental Management System certification since 2017, an achievement we're immensely proud of. In addition to this, we have the first and only fully functioning Micro Grid of its kind in New Zealand right here at our head office, with 150kW of solar generation and a 30kW/130kWh smart storage system, we're able to power our entire operation for most of the day.



We're already moving to reduce our impact even more by adding electric vehicles to our fleet and using our solar farm to charge them.

# LV ABC FITTINGS

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# LV ABC FITTINGS

## PRE-INSULATED COMPRESSION LUGS - BIMETAL

Pre-insulated lugs are used to terminate aerial bundled conductors onto switchgear, busbars or isolators. The range we stock is for bimetallic applications, there are other bimetallic or aluminium lugs available on request.

### FEATURES

- Totally insulated and waterproof
- Colour coded to easily identify applicable cable size
- Labeled with cable size, die size, strip length and locations of crimps
- Permanently engraved with traceability data

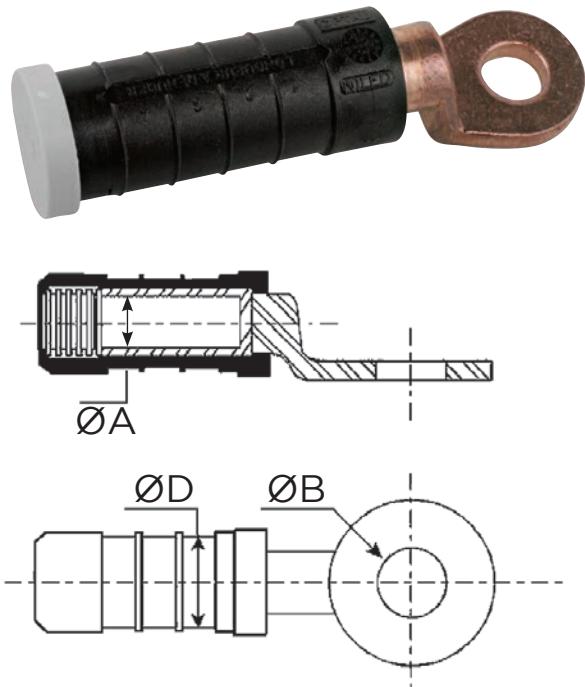
### INSTALLATION

Crimping:

- Use a tool equipped with a suitable hexagonal die
- Standard 12T crimp tool can be used (with suitable dies)
- Crimp in the indicated area starting from the centre and going towards the end of the lug

### COLOUR CODING

|                      |        |
|----------------------|--------|
| • 16mm <sup>2</sup>  | Blue   |
| • 25mm <sup>2</sup>  | Orange |
| • 35mm <sup>2</sup>  | Red    |
| • 50mm <sup>2</sup>  | Yellow |
| • 70mm <sup>2</sup>  | White  |
| • 95mm <sup>2</sup>  | Grey   |
| • 120mm <sup>2</sup> | Pink   |
| • 150mm <sup>2</sup> | Violet |



| Cat No.     | Cable Size (mm <sup>2</sup> ) | Diameter (mm) |      |     | TOTAL LENGTH (MM) | Palm Size (mm) | Die      |             |
|-------------|-------------------------------|---------------|------|-----|-------------------|----------------|----------|-------------|
|             |                               | Ø A           | Ø B  | Ø D |                   |                | A/F (mm) | Die Cat No. |
| TNABCICL16  | 16                            | 5.3           | 10.5 | 20  | 72                | 20             | 17.3     | 38-173AL9   |
| TNABCICL25  | 25                            | 6.5           | 10.5 | 20  | 72                | 20             | 17.3     | 38-173AL9   |
| TNABCICL35  | 35                            | 8             | 12.8 | 20  | 99                | 25             | 17.3     | 38-173AL9   |
| TNABCICL50  | 50                            | 9             | 12.8 | 20  | 99                | 25             | 17.3     | 38-173AL9   |
| TNABCICL70  | 70                            | 10.5          | 12.8 | 20  | 99                | 25             | 17.3     | 38-173AL9   |
| TNABCICL95  | 95                            | 12.5          | 12.8 | 25  | 99                | 30             | 21.5     | 38-215AL9   |
| TNABCICL120 | 120                           | 14.2          | 12.8 | 25  | 115               | 30             | 21.5     | 38-215AL9   |
| TNABCICL150 | 150                           | 15.5          | 12.8 | 25  | 115               | 30             | 21.5     | 38-215AL9   |

# LV ABC FITTINGS

## PRE-INSULATED FULL TENSION COMPRESSION SLEEVES

Pre-insulated links are used to make an electrical joint between two aerial bundled conductors. Our range is designed for full tension applications but of course they can be used in non tension applications. There are other links available on request for both non and full tension applications.



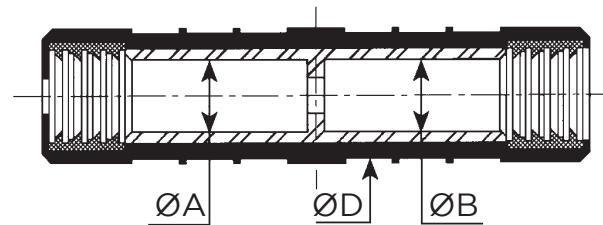
### FEATURES

- Totally insulated and waterproof
- Colour coded to easily identify applicable cable size
- Labeled with cable size, die size, strip length and locations of crimps
- Permanently engraved with traceability data

### INSTALLATION

Crimping:

- Use a tool equipped with a suitable hexagonal die
- Standard 12T crimp tool can be used (with suitable dies)
- Crimp in the indicated area starting from the centre and moving out



### COLOUR CODING

- 16mm<sup>2</sup> Blue
- 25mm<sup>2</sup> Orange
- 35mm<sup>2</sup> Red
- 50mm<sup>2</sup> Yellow
- 70mm<sup>2</sup> White
- 95mm<sup>2</sup> Grey
- 120mm<sup>2</sup> Pink
- 150mm<sup>2</sup> Violet

| Cat No.      | Cable Size (mm <sup>2</sup> ) | Diameter (mm) |      |     |        | Die      |             |
|--------------|-------------------------------|---------------|------|-----|--------|----------|-------------|
|              |                               | Ø A           | Ø B  | Ø D | Length | A/F (mm) | Die Cat No. |
| TNABCFTCS16  | 16                            | 5.5           | 5.5  | 20  | 100    | 17.3     | 38-173AL9   |
| TNABCFTCS25  | 25                            | 6.5           | 6.5  | 20  | 100    | 17.3     | 38-173AL9   |
| TNABCFTCS35  | 35                            | 8             | 8    | 20  | 100    | 17.3     | 38-173AL9   |
| TNABCFTCS50  | 50                            | 9             | 9    | 20  | 100    | 17.3     | 38-173AL9   |
| TNABCFTCS70  | 70                            | 10.5          | 10.5 | 20  | 100    | 17.3     | 38-173AL9   |
| TNABCFTCS95  | 95                            | 12.2          | 12.2 | 25  | 100    | 21.5     | 38-215AL9   |
| TNABCFTCS120 | 120                           | 14.2          | 14.2 | 25  | 102    | 21.5     | 38-215AL9   |
| TNABCFTCS150 | 150                           | 15.5          | 15.5 | 25  | 102    | 21.5     | 38-215AL9   |

# LV ABC FITTINGS

## IPCS - INSULATION PIERCING CONNECTORS

All our IPC connectors have tinned copper teeth so are suited to both Aluminium and Copper conductor (unless otherwise stated). These connectors are range taking and therefore reduce inventory requirements.

### FEATURES

- Tinned Copper teeth for Al/Cu application
- Insulated to Insulated & Insulated to Bare connectors available
- Shearhead bolt, snaps when correct connection torque is reached
- Application tool: IRW13/17 for 13mm O.D. Shearbolts (or 13mm socket)

### IPC FOR LV ABC TO INSULATED ALUMINIUM OR COPPER TAP



| Cat No.     | Mains Cable                       |                | Branch Cable                      |                | Notes              | Installation Bolt Size A/F (mm) |
|-------------|-----------------------------------|----------------|-----------------------------------|----------------|--------------------|---------------------------------|
|             | Conductor Size (mm <sup>2</sup> ) | Conductor Type | Conductor Size (mm <sup>2</sup> ) | Conductor Type |                    |                                 |
| K223        | 16-95                             | INSULATED      | 1.5-10                            | INSULATED      | FUSED IPC          | 13                              |
| 0-1727912-3 | 16-95                             | INSULATED      | 1.5-10                            | INSULATED      | ALUMINIUM & COPPER | 13                              |
| 0-1510619-3 | 16-95                             | INSULATED      | 4-35                              | INSULATED      | ALUMINIUM & COPPER | 13                              |
| 0-1574150-1 | 25-95                             | INSULATED      | 25-95                             | INSULATED      | ALUMINIUM & COPPER | 13                              |
| 1351230-2   | 50-150                            | INSULATED      | 50-150                            | INSULATED      | ALUMINIUM & COPPER | 13                              |
| 0-1229731-2 | 50-150                            | INSULATED      | 6-35                              | INSULATED      | ALUMINIUM & COPPER | 13                              |
| 1350329-1   | 50-300                            | INSULATED      | 6-35                              | INSULATED      | ALUMINIUM & COPPER | 13                              |

### IPC FOR LV ABC TO BARE ALUMINIUM OR COPPER MAIN CABLE



| Cat No.     | Mains Cable                       |                | Branch Cable                      |                | Notes                   | Installation Bolt Size A/F (mm) |
|-------------|-----------------------------------|----------------|-----------------------------------|----------------|-------------------------|---------------------------------|
|             | Conductor Size (mm <sup>2</sup> ) | Conductor Type | Conductor Size (mm <sup>2</sup> ) | Conductor Type |                         |                                 |
| K258        | 7-95                              | BARE           | 6-35                              | INSULATED      | COPPER MAIN             | 13                              |
| K259        | 7-95                              | BARE           | 6-35                              | INSULATED      | ALUMINIUM MAIN          | 13                              |
| 0-0708030-1 | 25-100                            | BARE           | 25-95                             | INSULATED      | ALUMINIUM & COPPER MAIN | 13                              |

# LV ABC FITTINGS

## IPC FOR INSULATED MAIN TO BARE TAP CABLE



| Cat No. | Mains Cable                       |                | Branch Cable                      |                | Notes            | Installation Bolt Size A/F (mm) |
|---------|-----------------------------------|----------------|-----------------------------------|----------------|------------------|---------------------------------|
|         | Conductor Size (mm <sup>2</sup> ) | Conductor Type | Conductor Size (mm <sup>2</sup> ) | Conductor Type |                  |                                 |
| K473    | 25-95                             | INSULATED      | 10-95                             | BARE           | COPPER BRANCH    | 17                              |
| K472    | 35-95                             | INSULATED      | 10-95                             | BARE           | ALUMINIUM BRANCH | 17                              |

## IPC FOR 2 INSULATED CABLES TO LV ABC



| Cat No. | Mains Cable                       |                | Branch Cable                      |             | Installation Bolt Size A/F (mm) |
|---------|-----------------------------------|----------------|-----------------------------------|-------------|---------------------------------|
|         | Conductor Size (mm <sup>2</sup> ) | Conductor Type | Conductor Size (mm <sup>2</sup> ) | No. of Taps |                                 |
| K394    | 16-95                             | 6-35           | 6-35                              | 2           | 13                              |
| K389    | 35-150                            | 6-35           | 6-35                              | 2           | 13                              |

## PUSH ON END CAP FOR ABC TAILS

TE push on end caps are pre-molded and reusable. To install, they are simply pushed on to the conductor free end. These end caps are made of thermoplastic or EPDM material and are UV-resistant offering a waterproof seal.

### FEATURES

- Will fit conductors from 6 - 150mm<sup>2</sup> (depending on the range chosen)
- Can be removed and installed as required
- No tools required for installation
- Offers 100% moisture proof seal for conductor end



| Cat No.     | Descriptive Code | Type  | Size Range (mm <sup>2</sup> ) |
|-------------|------------------|---|-------------------------------|
| 0-0739523-3 | CECT16-150       | MOLDED END CAP, BLACK, UV RESISTANT THERMOPLASTIC | 16-150                        |

# LV ABC FITTINGS

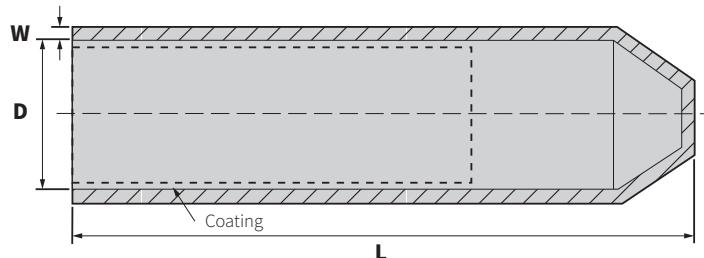
## END CAPS - NON-VALVED HEATSHRINKABLE

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            | 2.3                   |
| 102L033/S     | 17.0–30.0              | 35                     | 15    | 90            | 3.0                   |
| 102L044/S     | 30.0–45.0              | 55                     | 25    | 143           | 3.3                   |
| 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

# LV ABC FITTINGS

## MAINS ENTRY BOX

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

Available in single and three phase options they accept 6-35mm<sup>2</sup> supply cables & 4-35mm<sup>2</sup> customer cables.

- 13mm socket/spanner for install & removal

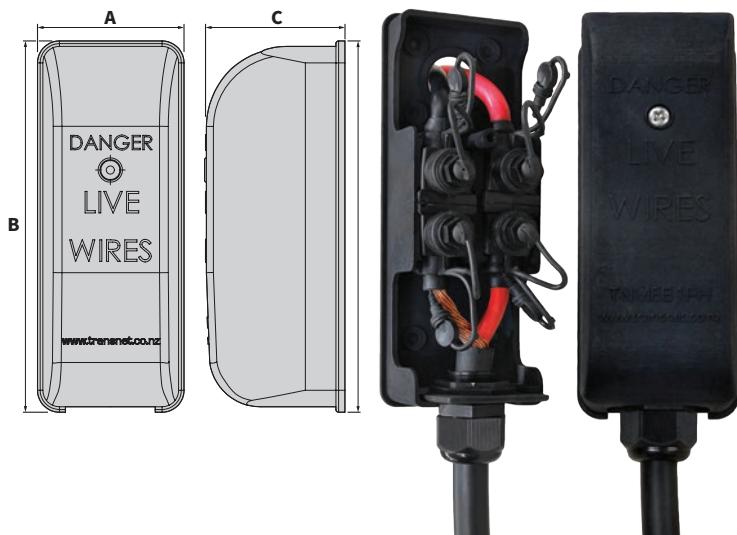


| Cat No. | Description  |
|---------|--|
| K453    | SINGLE PHASE MAINS ENTRY BOX WITH 2 CONNECTORS, 1 × PH + 1 × NEUTRAL                                     |
| K457    | THREE PHASE MAINS ENTRY BOX WITH 4 CONNECTORS, 3 × PH + 1 × NEUTRAL                                      |
| K208    | CONNECTOR ONLY - SUPPLY CABLE 6-35MM <sup>2</sup> , CUSTOMER CABLE 4-35MM <sup>2</sup> , SHEAR HEAD BOLT |

## TRANSNET MAINS ENTRY BOX

### FEATURES

- Made of UV stable plastic that won't shatter
- Shear bolt connectors for perfect connection every time
- Safer – No bare live parts
- Main cable supported by gland in gland plate
- Strip length clearly outlined on connector body
- Make off connectors outside enclosure, saves time & effort
- Electrical test points and test point caps built into connector bolt for ease of testing
- Captive Stainless Steel cover screw
- Insulated bimetallic connectors will terminate AL/CU cables, 4mm<sup>2</sup>-35mm<sup>2</sup> range
- Tested to meet the requirements of AS/NZS 3820:2009 +A1



The two and three phase products are housed in the same enclosure, the two phase unit will come complete with three connectors while the three phase will come with four connectors.

| Cat No.  | No. of Phases  | Dimensions (mm) |       |      | Tool                    |  |
|----------|--|-----------------|-------|------|-------------------------|--|
|          |  | A               | B     | C    |                         |  |
| TNMEB1PH | 1  | 81.5            | 206.5 | 77.0 | 13MM SPANNER/<br>SOCKET |  |
| TNMEB2PH | 2  | 146.5           | 246.5 | 87.0 |                         |  |
| TNMEB3PH | 3  |                 |       |      |                         |  |
| K208     | CONNECTOR ONLY - SUPPLY CABLE 6-35MM <sup>2</sup> , CUSTOMER CABLE 4-35MM <sup>2</sup> , SHEAR HEAD BOLT |                 |       |      |                         |  |

# LV ABC FITTINGS

## HOUSE HOOK

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



| Cat No    | Dimensions               |
|-----------|--------------------------|
| HOUSEHOOK | 175MM x 12MM x 25MM I.D. |

## SERVICE STRAIN CLAMPS

### MATERIAL

Body: Glass Filled Nylon

Straps: Stainless Steel

Wedge strain clamps are UV stabilised, with the ability to take 1, 2 or 4 core ABC twisted cables.



| Cat No.    | Cable Size (mm <sup>2</sup> ) AS3560 |
|------------|--------------------------------------|
| SCH6/35    | 2 & 4 CORE 6-35MM <sup>2</sup>       |
| 0-708046-3 | SINGLE CABLE, 9-17MM OD              |
| 0-708018-1 | SINGLE CABLE, 18-25MM OD             |

# LV ABC FITTINGS

## STRAIN CLAMPS

LV Termination clamps for ABC cable are available with a range of cable size capabilities. All clamps accommodate 2 core or 4 core cable making them the versatile choice. Use for the termination of LV ABC 2 core\* x 25mm<sup>2</sup> to 4 core 150mm<sup>2</sup>.

### MATERIAL

Wedges: Glass Filled Nylon

Hardware: Galvanised Steel

Straps: Aluminium or Galvanised Steel (depending on model)

### FEATURES

- Tested to AS3766
- Removable clevis pin
- Bolted full tension clamp for LV ABC



| Cat No.         | Strap Material   | Cable Size (mm <sup>2</sup> ) | Rated Voltage (kV) | Rated Tension** (kN) |
|-----------------|------------------|-------------------------------|--------------------|----------------------|
| TNABCSC4/25-50  | ALUMINIUM        | 2 & 4 CORE, 25-50             | <1                 | 8                    |
| TNABCSC4/50-95  | ALUMINIUM        | 2 & 4 CORE, 50-95             |                    | 15                   |
| TNABCSC4/95-150 | ALUMINIUM        | 2 & 4 CORE, 95-150            |                    | 23                   |
| TNABCSC4/95     | GALVANISED STEEL | 2 & 4 CORE, 25-120            |                    | 19                   |

\*Use fillers if only 2 cores are utilised

\*\*Rated tension at largest cable diameter

## SUSPENSION CLAMPS

LV suspension clamps for ABC cable are available with a range of cable size capabilities. Some can accommodate 2 and 3 core cables as well as 4 core cables. Use for suspension of LV ABC 25mm<sup>2</sup> to 150mm<sup>2</sup>.

### FEATURES

- Aluminium Alloy body with Stainless Steel hardware
- UV resistant Elastomer bushing
- Suitable for up to 30° line deviation
- For line deviation of 30° to 60° use with TNABC2XSUSBRKT
- Stainless Steel wear ring to protect suspension eyelet
- Tested to AS 3766-1990



| Cat No.       | Diameter of circumscribing circle over laid-up cable cores (mm) | Cable Size (mm <sup>2</sup> ) |        |        |
|---------------|---|-------------------------------|--------|--------|
|               |   | 2 Core                        | 3 Core | 4 Core |
| TNABCSPC4/35  | 22-27   | 50                            | 50     | 35     |
| TNABCSPC4/50  | 31-33   | -                             | -      | 50     |
| TNABCSPC4/70  | 30-37   | 95                            | -      | 70     |
| TNABCSPC4/95  | 37-40   | -                             | -      | 95     |
| TNABCSPC4/150 | 43-47   | -                             | -      | 150    |

# LV ABC FITTINGS

## K223 FUSED IPC

This fuse carrier is designed to use a 10.3x38mm fuse cartridge or neutral tube making it perfect for street light connections to an LV circuit. Maximum rating is 20A.

With the added simplicity of being an insulation piercing connector (IPC), installation is fast and simple. The special shear head bolt breaks off at the correct torque ensuring an accurate and consistent connection pressure is reached.

### KEY FEATURES

- Wide range-taking ability on both main and tap
- Specially designed for the New Zealand market
- UV Stabilised black body
- Built-in end cap for tap conductor
- Double circlip for retention of fuse
- Captured fuse base, will stay in place even without fuse link
- Watertight cable entry points
- IPC connection
- 13mm shear head bolt for exact installation every time



| Cat No. | Fuse Link Style                   | Cable Range (mm <sup>2</sup> ) | Amps |
|---------|-----------------------------------|--------------------------------|------|
| K223    | 10.3 x 38MM BARREL, CH10-NB RANGE | 6-95 MAIN, 1.5-16 TAIL         | 20   |

## K221 INLINE FUSED IPC

This Insulation Piercing fuse carrier is designed to accommodate 22x58mm barrel fuse cartridges, neutral tube or mini-switch. It is designed for use without mechanical load. Mechanical

tightening terminals allow installation in the Aerial Bundled Conductors (ABC) using a simple spanner. The K221 has an IP65 rating which makes it perfect for use in pillar boxes.

Fuse Link Style = HRC 22x58mm, ME Type (KR85)

Fuse Link Cat No. = TNMExxx (xxx denotes amps)



| Cat No. | Fuse Link Style  | Description | Cable Range (mm <sup>2</sup> ) | Amps |
|---------|------------------|-------------|--------------------------------|------|
| K221    | 22 x 58MM BARREL | IP65-IPC    | 6-50                           | 100  |

# LV ABC FITTINGS

## TNNHP100

### KEY FEATURES

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



SWAN/NECK/PIN



TNNHP100



TNNHP100A

| Cat No.       | Description                           | Fuse Link Style  | Cable Range (mm <sup>2</sup> ) | Amps |
|---------------|---------------------------------------|------------------|--------------------------------|------|
| TNNHP100      | FUSE CARRIER                          | 22 x 58MM BARREL | 6-35                           | 100  |
| TNNHP100A     | FUSE CARRIER & SWAN NECK ADAPTOR      | 22 x 58MM BARREL | 6-35                           | 100  |
| SWAN/NECK/PIN | NYLON HEAD THREADED PIN FOR TNNHP100A |                  |                                |      |

## K491

This fuse switch disconnect 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 22x58mm 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>.

- Installation tool: 13mm socket/spanner



| Cat No.       | Fuse Link Style  | Bracket Configuration             | Cable Range (mm <sup>2</sup> ) | Amps |
|---------------|------------------|-----------------------------------|--------------------------------|------|
| K491          | 22 x 58MM BARREL | STRAIGHT SINGLE BRACKET           | 6-35                           | 100  |
| K491TWBRKT    | 22 x 58MM BARREL | TWISTED SINGLE BRACKET            |                                |      |
| K491BRAC001X3 | NH00 DIN STYLE   | 3 UNITS ON STRAIGHT 3 WAY BRACKET |                                |      |

# LV ABC FITTINGS

## K291 & K292 FUSE SWITCH DISCONNECTORS

These fuse switch disconnects are single phase devices that are normally used as house service fuses or isolation points. They provide electrical protection to either an aerial service supplying an individual customer or for a low voltage circuit of a pole mounted transformer.

- Installation tool: 13mm socket/spanner

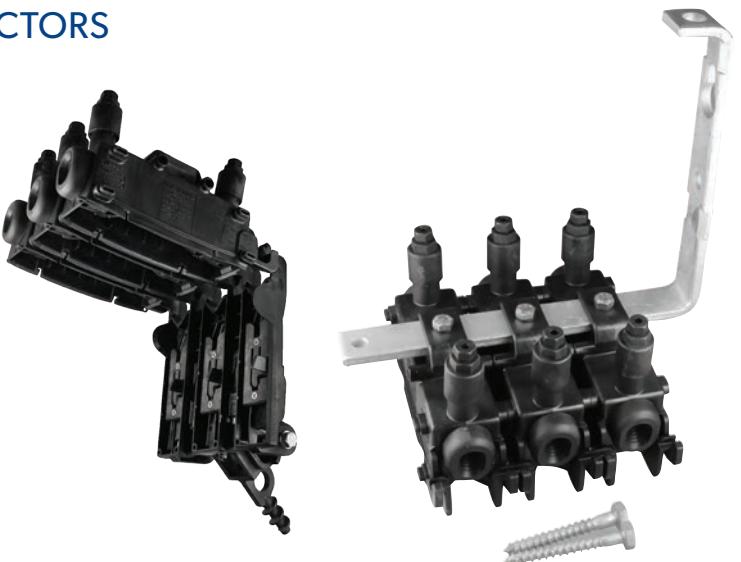
There are two types of FSD; the K292 suits 160A size 00 DIN fuse links and 240A solid connecting links (according to IEC 269-2.1) and the K291 suits up to 100A 22x58 barrel fuse links (according to IEC 269-2.1). FSD suits aluminium or copper insulated cables from 6 up to 95mm<sup>2</sup>.



| Cat No.    | Fuse Link Style  | Bracket Configuration             | Cable Range (mm <sup>2</sup> ) | Amps |
|------------|------------------|-----------------------------------|--------------------------------|------|
| K291       | 22 x 58MM BARREL | STRAIGHT SINGLE BRACKET           | 6-95                           | 100  |
| K291TWBRKT |                  | TWISTED SINGLE BRACKET            |                                |      |
| K292       | NH00 DIN STYLE   | STRAIGHT SINGLE BRACKET           | 6-95                           | 160  |
| K292TWBRKT |                  | TWISTED SINGLE BRACKET            |                                |      |
| K292X3KIT  | NH00 DIN STYLE   | 3 UNITS ON STRAIGHT 3 WAY BRACKET | 6-95                           | 160  |

## K293 GANGED FUSE SWITCH DISCONNECTORS

- Triple pole
- Al-Cu insulated conductor section ranges from 6 to 95mm<sup>2</sup>
- Fully insulated terminals
- Connection is established using insulation piercing technology
- Fuse holders are opened, removed and closed simultaneously using a hook stick or a stick to be screwed on the adaptor
- The polarity test points are accessible on each terminal without removing the fuse holders
- IP33 rated
- The bracket is made of galvanised steel highly resistant to corrosion
- This range meets the criteria of IEC 60 947-3 and IEC 602 69-2
- Installation tool: 13mm socket/spanner



| Cat No.     | Fuse Link Style    | Bracket Configuration   | Cable Range (mm <sup>2</sup> ) | Max Amps |
|-------------|--------------------|-------------------------|--------------------------------|----------|
| K293STRBRKT | 3 X NH00 DIN STYLE | STRAIGHT SINGLE BRACKET | 6-95                           | 160      |
| K293TWBRKT  |                    | TWISTED SINGLE BRACKET  |                                |          |

# LV ABC FITTINGS

## KGH160 - 160/250A

### FEATURES

- Fully insulated
- On-load switching capability
- Corrosion proof
- Suits standard hook-stick
- Integral mounting bracket for bolting or strapping
- Takes size 00 NH fuse links or connecting links
- Rated operational voltage is 480V
- Can be mounted side by side, with ganged or unganged operation for two or three pole requirements



| Cat No.    | Catalogue Reference      | No. of Poles | Ganged Switching | Pillar Ni Plated for 1x16-95mm <sup>2</sup> Al & Cu Compacted Cables | Insulation Piercing for 2x25-150mm <sup>2</sup> Al & Cu Compacted Cables |
|------------|--------------------------|--------------|------------------|--|--|
| 6459101500 | KGH160 NH TUNNEL-TUNNEL  | 1            | -                | IN/OUT   | -  |
| 6459101510 | SWITCH KGH160 NH IPC-IPC | 1            | -                | -  | IN/OUT   |
| 6459101700 | KGH160/3 GANGED          | 3            | YES              | IN/OUT   | -  |

## KGH400 - 400A (630A WITH SOLID LINK)

### FEATURES

- Extremely compact
- One or three-pole units
- On-load switching capability
- Corrosion proof
- Fully insulated
- Suits standard hook-stick
- Takes size 1-2 NH fuse links
- Rated operational voltage is 450V (630A with TNDIN2630A)
- Individual, hinged terminal covers for maximum safety
- Triple pole switch is supplied with mounting bracket



| Cat No.    | Catalogue Reference                | No. of Poles | Bracket Included | Ganged | Pillar   |  | IPC    | Lug    |
|------------|------------------------------------|--------------|------------------|--------|--|--|--------|--------|
|            |                                    |              |                  |        | For 2x16-95mm <sup>2</sup> Al Compacted Cables | Ni Plated for 2x50-150mm <sup>2</sup> Al & Cu cables |        |        |
| 6459100121 | T150AL/C-T150AL/C                  | 3            | YES              | YES    | -  | IN/OUT   | -      | -      |
| 6459100130 | LUG-LUG                            |              |                  |        | -  | -  | -      | IN/OUT |
| 6459100131 | T95AL-LUG                          |              |                  |        | IN   | -  | OUT    | -      |
| 6459111520 | 2 x 50-185TUN/2 x 50-150TUN        | 1            | NO               | -      | -  | IN/OUT   | -      | -      |
| 6459111550 | KGH400/1 IPC 25-150MM <sup>2</sup> |              |                  |        | -  | -  | IN/OUT | -      |
| 6459111560 | LUG/LUG UNGANGED                   |              |                  |        | -  | -  | -      | IN/OUT |
| 6459112200 | 2X25-150MM <sup>2</sup> IPC        | 3            | YES              | YES    | -  | -  | IN/OUT | -      |
| TNDIN2630A | DIN2 630A SOLID LINK ONLY          |              |                  |        |  |  |        |        |

# LV ABC FITTINGS

## OVERHEAD FUSE SWITCH 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 fuse carriers come with an individual bracket

| Cat No.        | Style    | No. of Fuses | Compatible Fuses |
|----------------|----------|--------------|------------------|
| BRAC001        | STRAIGHT | UP TO 3      | K491, K291, K292 |
| BRAC002        |          | 1            |                  |
| BRAC005        |          | UP TO 4      |                  |
| BRAC001TWISTED | TWISTED  | UP TO 3      | KRONE KGH        |
| BRAC002TWISTED |          | 1            |                  |
| 6459312200     | STRAIGHT | 3PH UNIT     | KRONE KGH        |
| 6459312300     |          | 1PH UNIT     |                  |



# HV ABC FITTINGS

| PAGE | CATEGORY                           |
|------|------------------------------------|
| 20   | HV ABC Typical Suspension Assembly |
| 20   | Suspension Bracket & Hook Bolt     |
| 21   | Suspension Clamps                  |
| 22   | Helical Bundle Restraints          |
| 22   | Raychem Termination Kits           |



# HV ABC FITTINGS

## HV ABC TYPICAL SUSPENSION ASSEMBLY



Suspension Hook Bolt



Suspension Clamp



Suspension Bracket

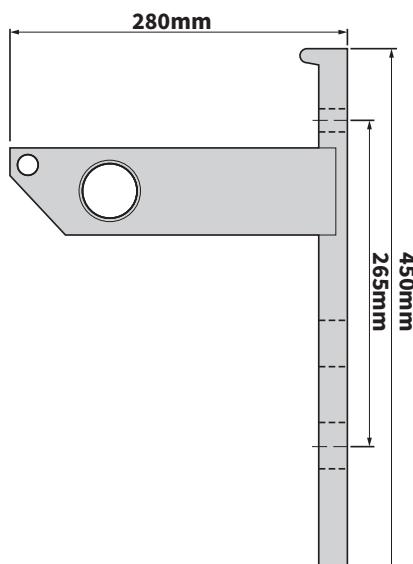
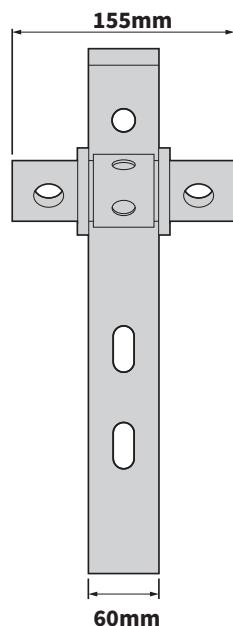


## SUSPENSION BRACKET & HOOK BOLT

The HV ABC suspension bracket is used to attach a suspension clamp to a wooden or concrete pole with the use of a suspension hook bolt. Additional holes are provided for use with a stringing yokebar.



Suspension Hook Bolt



Suspension Bracket

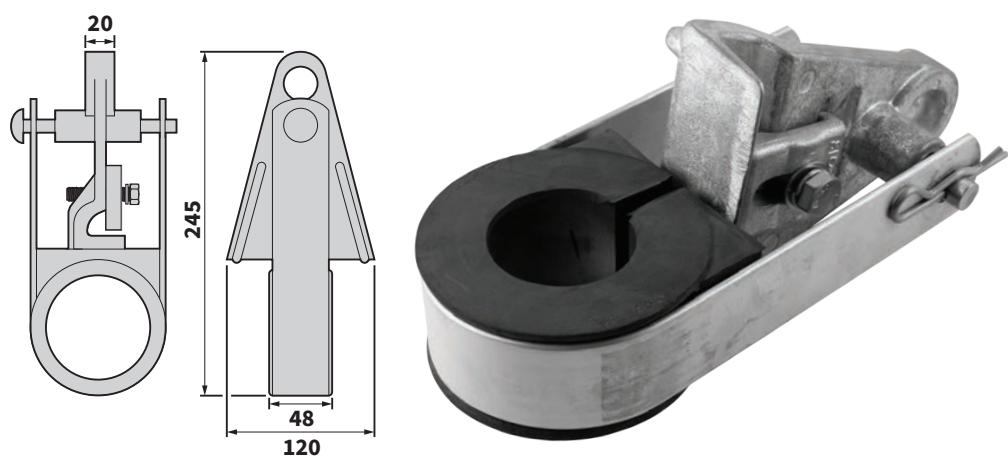
| Cat No.      | Description                         |
|--------------|-------------------------------------|
| TNSB10312    | HV ABC SUSPENSION BRACKET           |
| CTNSHB16-200 | SUSPENSION HOOK BOLT WITH SPLIT PIN |

# HV ABC FITTINGS

## SUSPENSION CLAMPS

The suspension clamp is suitable for use on High Voltage ABC cables. Whether the cables are metallic or non metallic screened.

It is suitable for up to 45° line deviation.



| Cat No.         | 11kV Metallic Screened (mm <sup>2</sup> ) | 22kV Metallic Screened (mm <sup>2</sup> ) | 11kV Non Metallic Screened (mm <sup>2</sup> ) | 22kV Non Metallic Screened (mm <sup>2</sup> ) |
|-----------------|---|---|---|---|
| TNABCHVMSC-150  | 150                                       | 70 & 95                                   | -   | -   |
| TNABCHVNMSC-35  | -   | -   | 35 & 50                                       | -   |
| TNABCHVNMSC-70  | -   | -   | 70  | -   |
| TNABCHVNMSC-95  | -   | -   | 95 & 120                                      | 35 & 50                                       |
| TNABCHVNMSC-150 | -   | -   | 150   | 70  |
| TNABCHVNMSC-185 | -   | -   | 185   | 95 & 120                                      |

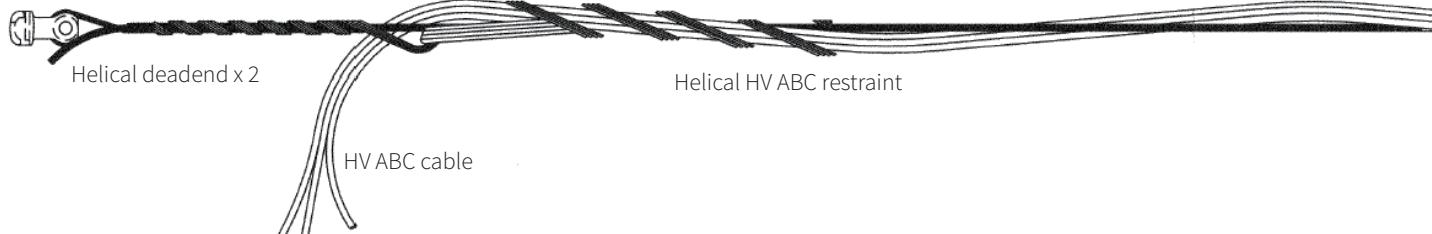
# HV ABC FITTINGS

## HELICAL BUNDLE RESTRAINTS

The Helical restraint is a preventative restraint designed to minimise bird caging, also providing restraint from conductors unravelling from catenary cable at deadends. Part numbers below include three helical fittings to complete the bundle restraint.

Bird caging is caused by either gravity forces pulling on the conductor or as a result of a fault current.

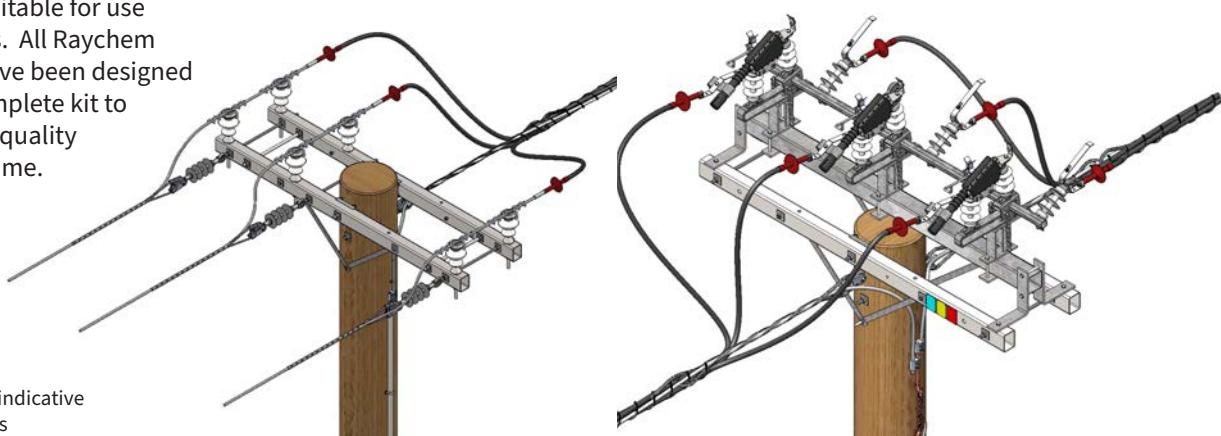
Socket thimble



| Cat No.      | 11kV Non Metallic Screened (mm <sup>2</sup> ) | 22kV Non Metallic Screened (mm <sup>2</sup> ) |
|--------------|---|---|
| TNHR35-50    | 35 & 50                                       | -   |
| TNHR70       | 70  | 35  |
| TNHR95       | 95  | 50  |
| TNHR70-95    | -   | 70 & 95                                       |
| TNHR120-150  | 120 & 150                                     | -   |
| TNHR185      | 185   | -   |
| TNHR120-150L | -   | 120 & 150                                     |
| TNHR185L     | -   | 185   |

## RAYCHEM TERMINATION KITS

Termination kits suitable for use with HV ABC cables. All Raychem termination kits have been designed and tested as a complete kit to ensure the highest quality installation every time.



\*illustrations show two indicative termination installations

| Cat No.      | Size Range Al or Cu (mm <sup>2</sup> ) | kV Rating | Connector Type | Tail Length (mm) |
|--------------|--|-----------|----------------|------------------|
| OXSUF-3121-M | 16CU/25AL-95                           | 11        | MECHANICAL     | 300              |
| OXSUF-3131-M | 120-300                                |           |                |                  |
| OXSUF-5121-M | 25-70                                  | 22        | MECHANICAL     | 440              |
| OXSUF-5131-M | 70-240                                 |           |                |                  |

# ABC HARDWARE

| PAGE | CATEGORY                       |
|------|--------------------------------|
| 24   | Weak Links                     |
| 24   | Eye Nuts                       |
| 24   | Hook Nuts                      |
| 25   | Hook Brackets                  |
| 25   | Double Suspension Yoke Bracket |
| 25   | Hook Bolts                     |

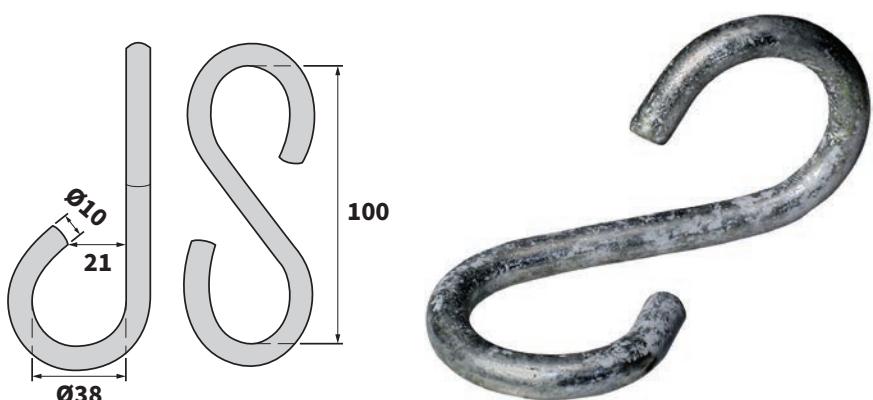


# ABC HARDWARE

## WEAK LINKS

### MATERIAL

Carbon Grade Galvanised Steel



| Cat No.      | Diameter (mm) | Minimum Failing Load (kN) | Overall Length (mm) | Material Diameter (mm) |
|--------------|---------------|---------------------------|---------------------|------------------------|
| CTNABCWL-4KN | 38            | 4                         | 100                 | 10                     |
| CTNABCWL-8KN | 38            | 8                         | 100                 | 12                     |

## EYE NUTS

### MATERIAL

Galvanised Steel

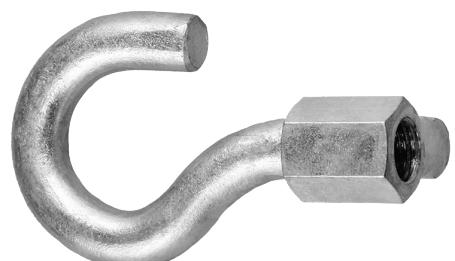


| Cat No.       | Thread Diameter (mm) AS3766 | Thread Length (mm) AS3766 | Diameter of Eye Material D (mm) AS3766 | Minimum Failing Load (kN) |
|---------------|-----------------------------|---------------------------|--|---------------------------|
| CTNABCEN-16   | 16                          | 30                        | 12                                     | 44                        |
| CTNABCEN-20   | 20                          | 40                        | 16                                     | 70                        |
| CTNABCEN-2020 | 20                          | 40                        | 20                                     | 120                       |

## HOOK NUTS

### MATERIAL

Galvanised Steel



| Cat No.    | Thread Size | Dia. of Eye Material (mm) | Failing Load (kN) |
|------------|-------------|---------------------------|-------------------|
| TNABCHNM16 | M16         | 16                        | 12                |

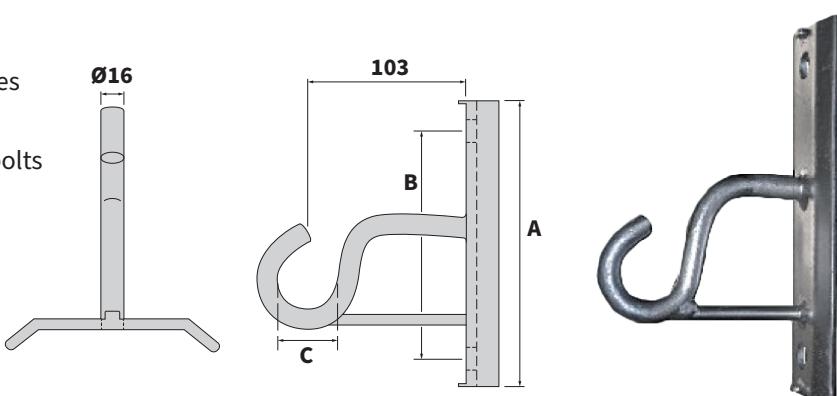
## HOOK BRACKETS

The hook bracket can be fixed to concrete or steel poles with stainless steel strapping.

The hook bracket can be fixed to wooden poles with bolts or coach screws

### MATERIAL

Galvanised Steel



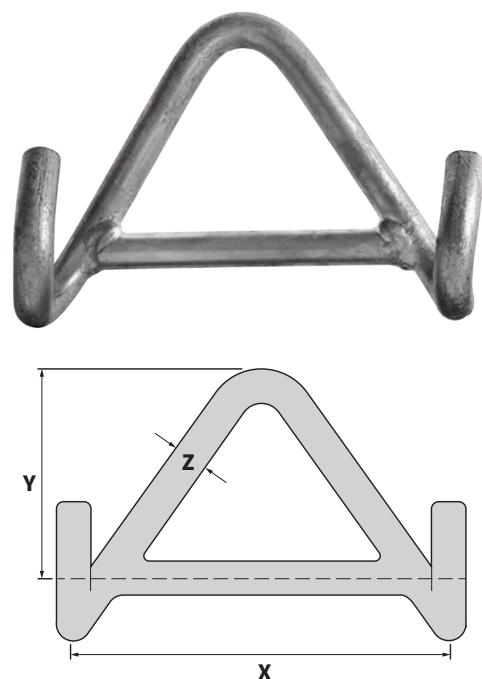
| Cat No.     | A (mm) | Hole Centres B (mm) | Diameter of Hook C (mm) | Minimum Failing Load (kN) AS3766 |
|-------------|--------|---------------------|-------------------------|----------------------------------|
| TNABCHBR-12 | 200    | 150                 | 16                      | 12                               |

## DOUBLE SUSPENSION YOKE BRACKET

The yoke bar is suitable for use with two of the TNABCSC style clamps on angle poles, where the line angle deviates by more than 30°.

### MATERIAL

Galvanised Steel



| Cat No.        | Dimensions (mm) |     |     | Minimum Failing Load (kN) |
|----------------|-----------------|-----|-----|---------------------------|
|                | Z               | Y   | X   |                           |
| TNABC2XSUSBRKT | 16              | 105 | 195 | 12                        |

# ABC HARDWARE

## HOOK BOLTS – CURVED LOCATING PLATE

### MATERIAL

Galvanised Steel with curved locating shoulder for use with curved poles. Comes with washer & nut.



| Cat No.        | Diameter 16mm (AS3766) | Diameter 20mm (AS3766) | Length L (mm) | Thread (mm) |
|----------------|------------------------|------------------------|---------------|-------------|
| CTNABCHB16-250 |                        | CTNABCHBM20X250        | 250           | 150         |
| CTNABCHB16-325 |                        |                        | 325           | 150         |
| CTNABCHB16-350 |                        |                        | 350           | 150         |
| CTNABCHB16-400 |                        |                        | 400           | 150         |
| CTNABCHB16-450 |                        |                        | 450           | 150         |

## HOOK BOLTS – STRAIGHT LOCATING PLATE

### MATERIAL

Galvanised Steel with straight locating plate for use with concrete or non-curved poles. Complete with washer & nut.



| Cat No.            | Diameter (mm) | Length L (mm) | Thread (mm) |
|--------------------|---------------|---------------|-------------|
| TNABCHEB16X400-250 | 16            | 400           | 250         |

# CCT COVERED CONDUCTOR FITTINGS

| PAGE | CATEGORY  |
|------|---|
| 28   | CCT Strain Clamps and Covers                    |
| 29   | Uncovered Strain Connections                    |
| 28   | CCT Compression Joints and Covers               |
| 29   | Non-Metallic Helical Top & Side Ties for CCT    |
| 29   | Polymer Post Insulators - 11kV                  |
| 30   | Porcelain Post Insulators - 11kV                |
| 30   | Polymer Strain Insulators                       |
| 31   | AMPACT Connectors and GelPact Covers            |
| 31   | AMPACT Bail Clamp Connector With GelPact Covers |
| 32   | CCT Insulator Mounting Brackets                 |
| 32   | Surge Arrester Assembly                         |
| 32   | CCT Surge Arrester Kits                         |



# CCT COVERED CONDUCTOR FITTINGS

## CCT STRAIN CLAMPS WITH COVERS

- Wedge-style strain clamps for securing CCT conductors at tension/strain points
- Includes cover to encompass clamping arrangement
- Bolted retaining clamp to secure conductor in position
- Includes clevis – clevis hardware for compatibility with eye-tongue of strain insulator



| Clamp Cat No. | CCT Cable Size (mm <sup>2</sup> ) | Clamp Range OD (mm) | Strength Rating |      |
|---------------|-----------------------------------|---------------------|-----------------|------|
|               |                                   |                     | kN              | kg   |
| TNNXL-2       | 70-95                             | 10.7-12.6           | 9               | 917  |
| TNNXL-3       | 120-150                           | 14.0-15.7           | 15              | 1529 |
| TNNXL-4       | 180-240                           | 17.0-20.25          | 23              | 2345 |

## UNCOVERED STRAIN CONNECTIONS

- Helical formed deadend for use on covered conductors
- Will hold a minimum of 90% of the UTS of the conductor as required by AS1154.1 - 2004
- Relieved leg ends to avoid insulation damage
- Neoprene dipped, Aluminium alloy material



| Cat No.       | Cable Size (mm <sup>2</sup> ) | Cable Range (mm) |
|---------------|-------------------------------|------------------|
| TNADE1625-CCT | 40                            | 15.66-16.88      |
| TNADE1875-CCT | 80                            | 18.55-19.34      |
| TNADE2100-CCT | 120                           | 20.4-21.82       |
| TNADE2375-CCT | 180                           | 23.75-25.29      |

## CCT COMPRESSION JOINTS AND COVERS

- Full tension hexagonal compression joint
- Supplied with appropriate Raychem WCSM tube to reinstate insulation
- Simple installation



| Cat No.    | Cable Size (mm <sup>2</sup> ) | CCT Cable Stranding (mm) |
|------------|-------------------------------|--------------------------|
| TNCJ80CCT  | 80                            | 7/3.75                   |
| TNCJ120CCT | 120                           | 7/4.75                   |

# CCT COVERED CONDUCTOR FITTINGS

## NON-METALLIC HELICAL TOP & SIDE TIES FOR CCT

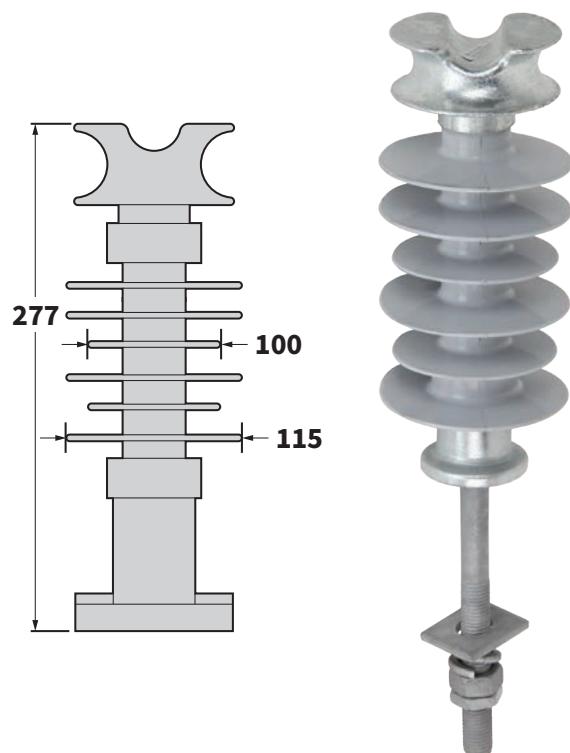
- Designed for use with covered conductor
- Formed to fit F-Neck insulators (76mm neck)
- Rigid PVC core, semi-conductive outer-layer (black only)
- Uniform holding power at each attachment point
- Double-pin ties for use at intersections or slight angles where space or double pin construction does not permit use of top tie



| Cat No.   | Type             | Neck Size     | Cable Size (mm <sup>2</sup> ) | Cable OD Over Insulation (mm) |
|-----------|------------------|---------------|-------------------------------|-------------------------------|
| TNPTT40   | TOP TIE          | F NECK (76MM) | 40                            | 15.8                          |
| TNPTT80   |                  |               | 80                            | 18.8                          |
| TNPTT120  |                  |               | 120                           | 21.9                          |
| TNPTT180  |                  |               | 180                           | 25.0                          |
| TNPST40   | SIDE TIES        | F NECK (76MM) | 40                            | 15.8                          |
| TNPST80   |                  |               | 80                            | 18.8                          |
| TNPST120  |                  |               | 120                           | 21.9                          |
| TNPST180  |                  |               | 180                           | 25.0                          |
| TNPDT40   | DOUBLE TOP TIES  | F NECK (76MM) | 40                            | 15.8                          |
| TNPDT80   |                  |               | 80                            | 18.8                          |
| TNPDT120  |                  |               | 120                           | 21.9                          |
| TNPDT180  |                  |               | 180                           | 25.0                          |
| TNPDST40  | DOUBLE SIDE TIES | F NECK (76MM) | 40                            | 15.8                          |
| TNPDST80  |                  |               | 80                            | 18.8                          |
| TNPDST120 |                  |               | 120                           | 21.9                          |
| TNPDST180 |                  |               | 180                           | 25.0                          |

## POLYMER POST INSULATORS - 11KV

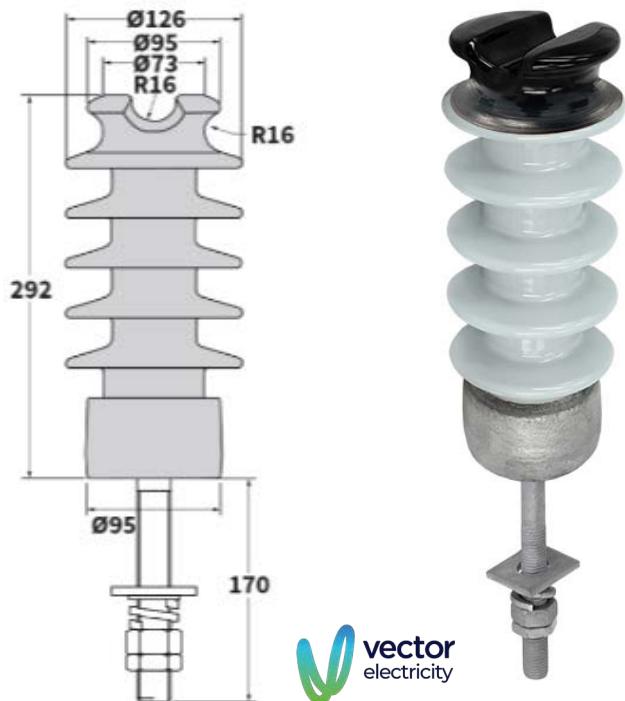
| Cat No.                            | CZ2120-000   |
|------------------------------------|--|
| INSULATOR STYLE                    | TIE TOP  |
| USAGE VOLTAGE (kV)                 | 11   |
| CREEPAGE DISTANCE (mm)             | 535  |
| DRY ARC DISTANCE (mm)              | 223  |
| NO OF SHEDS                        | 6  |
| SCL (kN)                           | 11   |
| WET POWER FREQUENCY WITHSTAND (kV) | 38   |
| DRY POWER FREQUENCY WITHSTAND (kV) | 60   |
| LIGHTNING IMPULSE WITHSTAND (kV)   | 105  |
| WEIGHT (KG)                        | 2.02   |
| COLOUR                             | GREY   |
| END FITTING                        | GALVANISED CAST STEEL  |
| HOUSING                            | SILICONE   |
| CORE                               | FRP  |
| PIN INCLUDED                       | M20x219mm STUD, SPRING WASHER, DOUBLE HELIX SPRING WASHER, SQUARE WASHER & NUT |
| BOX QTY                            | 6 (48X6 PER PALLET)  |



# CCT COVERED CONDUCTOR FITTINGS

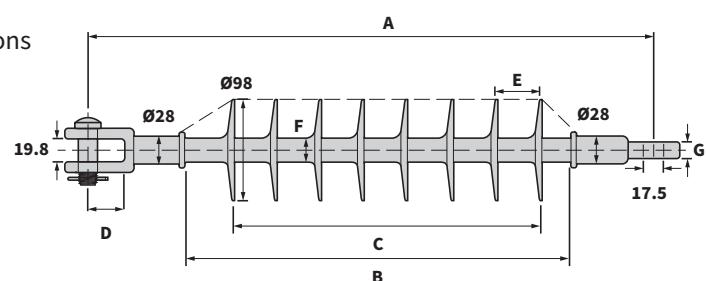
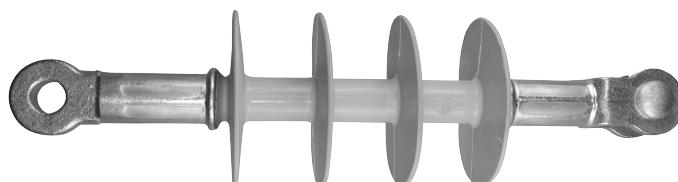
## PORCELAIN POST INSULATORS - 11KV

| Cat No.                            | EN1597-000  |
|------------------------------------|---|
| INSULATOR STYLE                    | TIE TOP   |
| USAGE VOLTAGE (KV)                 | 11  |
| CREEPAGE DISTANCE (mm)             | 400   |
| SCL (KN)                           | 10  |
| WET POWER FREQUENCY WITHSTAND (kV) | 72  |
| BIL (KV)                           | 105   |
| APPROX. WEIGHT (KG)                | 5   |
| COLOUR                             | GREY  |
| RADIO SILENT GLAZE                 | YES   |
| END FITTING                        | GALVANISED CAST STEEL   |
| MATERIAL                           | PORCELAIN   |
| PIN INCLUDED                       | M20x170mm STUD, SPRING WASHER, DOUBLE HELIX SPRING WASHER, SQUARE WASHER & LOCK NUT |
| BOX QTY                            | 3   |



## POLYMER STRAIN INSULATORS

- Triple Seal design, to eliminate all moisture ingress
- Forged Steel End Fittings, for consistency of all critical dimensions
- Fibreglass Rod, for better traction & tension load on RML & SML
- Meets requirements of all applicable international standards



| Cat No.              | DS-15S |     |     |    |    |       |    | DS-28S |     |     |    |    |     |    | DS-35S |     |     |    |    |     |    |
|----------------------|--------|-----|-----|----|----|-------|----|--------|-----|-----|----|----|-----|----|--------|-----|-----|----|----|-----|----|
| LINE VOLTAGE (KV)    | 15     |     |     |    |    |       |    | 28     |     |     |    |    |     |    | 35     |     |     |    |    |     |    |
| SECTION LENGTH (MM)  | 330    |     |     |    |    |       |    | 432    |     |     |    |    |     |    | 559    |     |     |    |    |     |    |
| DRY ARC (MM)         | 192    |     |     |    |    |       |    | 294    |     |     |    |    |     |    | 426    |     |     |    |    |     |    |
| LEAKAGE (MM)         | 401    |     |     |    |    |       |    | 628    |     |     |    |    |     |    | 954    |     |     |    |    |     |    |
| ELECTRICAL FLASHOVER |        |     |     |    |    |       |    |        |     |     |    |    |     |    |        |     |     |    |    |     |    |
| - DRY 60HZ           | 90     |     |     |    |    |       |    | 130    |     |     |    |    |     |    | 170    |     |     |    |    |     |    |
| - WET 60HZ           | 50     |     |     |    |    |       |    | 100    |     |     |    |    |     |    | 155    |     |     |    |    |     |    |
| - CIFO POSITIVE      | 140    |     |     |    |    |       |    | 190    |     |     |    |    |     |    | 280    |     |     |    |    |     |    |
| - CIFO NEGATIVE      | 145    |     |     |    |    |       |    | 220    |     |     |    |    |     |    | 290    |     |     |    |    |     |    |
| WEIGHT (KG)          | 1.2    |     |     |    |    |       |    | 1.3    |     |     |    |    |     |    | 1.4    |     |     |    |    |     |    |
| DIMENSIONS (MM)      | A      | B   | C   | D  | E  | F     | G  | A      | B   | C   | D  | E  | F   | G  | A      | B   | C   | D  | E  | F   | G  |
|                      | 340    | 160 | 141 | 27 | 47 | Ø24.5 | 16 | 475    | 305 | 245 | 26 | 35 | Ø23 | 14 | 555    | 385 | 315 | 26 | 35 | Ø23 | 14 |

# CCT COVERED CONDUCTOR FITTINGS

## AMPACT CONNECTORS AND GELPACT COVERS

- The AMPACT system uses “Wedge Pressure Technology” for continuous performance
- Range taking connectors for all connection types
- GelPact covers protect the connection from harsh environments
- The GelPact cover is a UV stable plastic housing filled with hydrophobic Raychem PowerGel

NOTE: This is for CCT to CCT non-tension connections.

- AMPACT can join CCT to any other wire combinations, please check with TransNet for Part # and availability**



| Cat No.    |               | Joins CCT                                | OD of CCT Conductor         | Wedge, Cartridge & Cover Colour |
|------------|---------------|--|-----------------------------|---------------------------------|
| AMPACT     | GelPact Cover |  |                             |                                 |
| 0-602283-0 | 1710500-1     | 40mm <sup>2</sup> to 40mm <sup>2</sup>   | 40mm <sup>2</sup> = 8.4mm   | WHITE                           |
| 0-600411-0 | 1710523-1     | 80mm <sup>2</sup> to 80mm <sup>2</sup>   | 80mm <sup>2</sup> = 11.4mm  | BLUE                            |
| 0-602002-0 | 1710501-1     | 120mm <sup>2</sup> to 120mm <sup>2</sup> | 120mm <sup>2</sup> = 14.5mm | YELLOW                          |
| 0-602031-4 | 1710501-1     | 180mm <sup>2</sup> to 180mm <sup>2</sup> | 180mm <sup>2</sup> = 17.7mm | YELLOW                          |

## AMPACT BAIL CLAMP CONNECTOR WITH GELPACT COVERS

- Temporary Earth Connection Points
- Permanent MV connections / Droppers etc
- AMPACT Wedge Pressure Technology
- GelPact covers are UV stable plastic housings filled with hydrophobic Raychem PowerGel
- KIT INCLUDES:
  - AMPACT Connector
  - Bail Assembly
  - Suitable Gel Pact Cover



| Cat No.    | Description  | OD of CCT Conductor         | Wedge, Cartridge & Cover Colour |
|------------|--|-----------------------------|---------------------------------|
| AB-CCT-40  | AMPACT BAIL CLAMP & GEL COVER FOR 40mm <sup>2</sup> CCT  | 40mm <sup>2</sup> = 8.4mm   | WHITE                           |
| AB-CCT-80  | AMPACT BAIL CLAMP & GEL COVER FOR 80mm <sup>2</sup> CCT  | 80mm <sup>2</sup> = 11.4mm  | BLUE                            |
| AB-CCT-120 | AMPACT BAIL CLAMP & GEL COVER FOR 120mm <sup>2</sup> CCT | 120mm <sup>2</sup> = 14.5mm | YELLOW                          |

# CCT COVERED CONDUCTOR FITTINGS

## SURGE ARRESTER ASSEMBLY

- Class 2 - (station class) arrester
- Protection of MV networks/sensitive equipment/substations from lightning and switching surge related over voltages in areas with relatively high iso-keraunic levels
- Configured for insulated conductor applications
- Complete with bird cap and Nema crossarm mounting bracket



| Cat No.    | Type | U Continuous kV (r.m.s) | U Rated kV (r.m.s) |
|------------|------|-------------------------|--------------------|
| EH6266-000 | OCP2 | 12                      | 15                 |

## CCT SURGE ARRESTER KIT

### KIT CONTENTS

- BOW-OCP2-12S-BEE-220 Surge Arrester
- With insulated bracket
- ELD (Earth Lead Disconnect) Safety Disconnect
- Bird Cap to suit surge arrester
- AMPACT connector suitable for CCT size to Kutu (9.00mm OD), jumper not supplied
- GelPact Cover
- Nema Bracket (crossarm mounting bracket)



| Cat No. of Kitset | CCT Size (mm <sup>2</sup> ) | AMPACT     | AMPACT Cover |
|-------------------|-----------------------------|------------|--------------|
| CCTS40            | 40                          | 0-602283-0 | 171523-1     |
| CCTS80            | 80                          | 0-600411-0 | 1710523-1    |
| CCTS120           | 120                         | 0-602000-0 | 1710501-1    |

# STRINGING & ASSEMBLY EQUIPMENT

| PAGE | CATEGORY                                |
|------|---|
| 36   | Cable Stripping Tool                    |
| 36   | LV ABC Core Separating Wedges           |
| 37   | Universal Stringing Roller              |
| 38   | Insulated Ratchet Spanner               |
| 38   | Swivels                                 |
| 38   | ABC Wire Grip                           |
| 39   | LV ABC Cable Pulling Sock               |
| 39   | HV ABC Cable Pulling Socks - Single Eye |
| 39   | HV ABC Cable Pulling Socks - Double Eye |
| 40   | HV ABC Yokebar                          |
| 40   | ABC Installation Pulley                 |



# STRINGING & ASSEMBLY EQUIPMENT

## CABLE STRIPPING TOOL – CCT

- Adjustable from 12.7-63.5mm cable diameter
- Adjustable blade pitch
- Unique clamping design
- Belleville springs for secure clamping
- Adjustable blade depth
- End strip capability
- Midspan stripping capability
- Concentric jacket remover capable
- Nylatron bearing surfaces for smooth turning
- Insulation chip deflector
- XLPE, PE, EPR insulation removal
- Universal single blade
- Ergonomic handles for turning leverage
- Removable handles to strip in tight locations
- Easy blade change out
- Glovable - easy use with gloves



| Cat No.   | Cable Diameter O.D (mm) | Insulation Thickness (mm) | Insulation Types | Cable Voltages |
|-----------|-------------------------|---------------------------|------------------|----------------|
| US01-7000 | 12.7-63.5               | 1.52-10.67                | XLPE, PE, EPR    | 600V - 35KV    |

## LV ABC CORE SEPARATING WEDGES

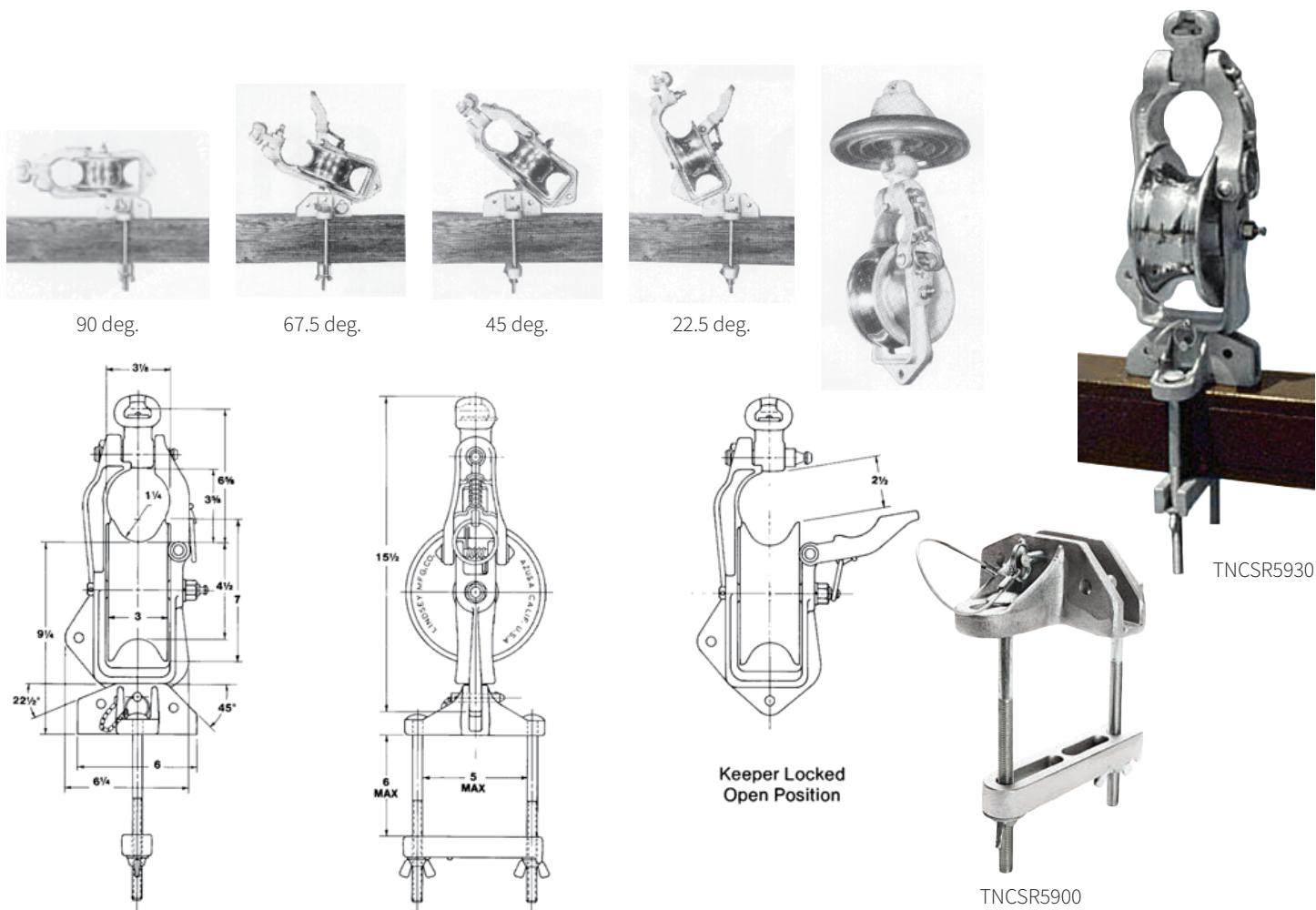
During the installation of connectors the phase conductors of an insulated overhead cable can be separated by using wedges. The wedge can also be used when installing suspension clamps. The wedges can be left on the cable even after the installation.



| Cat No. | Description        | Weight (g) | Package (pcs) |
|---------|--------------------|------------|---------------|
| PHS     | TWO PLASTIC WEDGES | 100        | 10            |

# STRINGING & ASSEMBLY EQUIPMENT

## UNIVERSAL STRINGING ROLLER



| Cat No.     | Maximum Diameter of Conductor or Splice (mm) | Safe Working Load Suspended or Mounted (kN) | Combined Roller Weight (kg) |
|-------------|--|---|-----------------------------|
| TNCSR-LVABC | 45   | 11  | 6                           |

# STRINGING & ASSEMBLY EQUIPMENT

## INSULATED RATCHET SPANNER

- For use with all shear bolt connectors (IPCs and Fuse Carriers)
- 13mm and 17mm A/F sockets in one spanner
- Reversible ratchet
- Fits stainless steel nuts used in strain and suspension clamps
- Fixed sockets that can not be lost or dropped during installation
- 1000V insulated for added user safety
- 6 sided hex sockets protect integrity of plastic bolt heads



| Cat No.  | Description                                 |
|----------|---|
| IRW13/17 | INSULATED RATCHET SPANNER 13 & 17MM SOCKETS |

## SWIVELS

- For use with pulling socks to eliminate twist
- 1T, 1.5T & 2T safe working load options available



Fig 2  
Image may differ from product supplied



Fig 1

| Cat No.  | Safe Working Load | Figure |
|----------|-------------------|--------|
| SWIVEL   | 1.5T SWIVEL       | 1      |
| TNSWI-22 | 1 TON             | 2      |
| TNSWI-33 | 2 TON             | 2      |

## ABC WIRE GRIP

- Jaw size 190mm
- Minimum cable size 4x35mm<sup>2</sup>
- Maximum cable size 4x95mm<sup>2</sup>
- Weight 3kg



| Cat No.    | Jaw Length (mm) | Min Cable Diameter (mm <sup>2</sup> ) | Max Cable Diameter (mm <sup>2</sup> ) | Weight (kg) |
|------------|-----------------|---------------------------------------|---------------------------------------|-------------|
| TNABC-GRIP | 190             | 4 x 35                                | 4 x 95                                | 3           |

# STRINGING & ASSEMBLY EQUIPMENT

- Nylon stranding, Alloy ferrule and soft eye
- For use on 4 x 95mm<sup>2</sup> ABC
- Grip length is approximately 800mm
- Maximum pull is approximately 25kN

LV ABC PULLING SOCK



| Cat No. | Description                           |
|---------|---------------------------------------|
| LV495   | PULLING SOCK 4C 95MM <sup>2</sup> ABC |

## HV ABC CABLE PULLING SOCKS - SINGLE EYE

- Galvanised tubular style weave
- Single eye
- Aluminium Alloy ferrule

| Cat No.  | Cable Size (O.D) | Net Grip Length | UTS kN |
|----------|------------------|-----------------|--------|
| HDGW10CS | 10-15            | 750             | 37     |
| HDGW15CS | 15-21            | 810             | 57     |

## HV ABC CABLE PULLING SOCKS - DOUBLE EYE

- Nylon tubular weave
- Double eye
- Aluminium Alloy ferrule

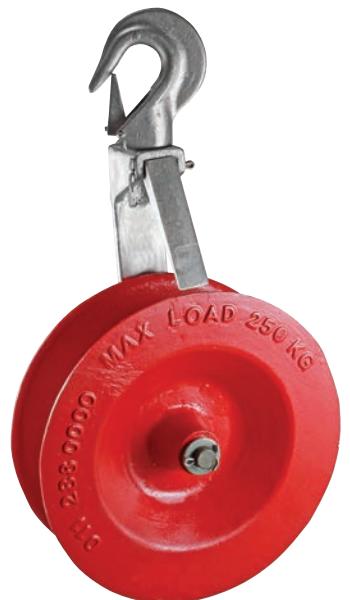
| Cat No. | Cable Size (mm <sup>2</sup> ) | Colour | No. of Ply | Net Grip Length | UTS kN |
|---------|-------------------------------|--------|------------|-----------------|--------|
| HV395   | 3X95                          | GR     | 4          | 900             | 31     |
| HV3185  | 3X185                         | BL     | 4          | 900             | 31     |

# STRINGING & ASSEMBLY EQUIPMENT

## ABC INSTALLATION PULLEY

- Maximum load is 250kg
- Provides clear working space for field staff
- No lifting of cables required, simply pull them through the pulley and terminate into suspension clamp

| Cat No. | Description                     |
|---------|---------------------------------|
| PO      | INSTALLATION PULLEY UP TO 250KG |



# COVERING EXISTING CONDUCTORS

| PAGE | CATEGORY                              |
|------|---------------------------------------|
| 42   | MVLC - Medium Voltage Line Cover      |
| 42   | MVCC - Medium Voltage Conductor Cover |
| 43   | Panther Tail - Line Cover             |
| 43   | Raptor Protection Cover - BCIC        |



# COVERING EXISTING CONDUCTORS

## MVLC - MEDIUM VOLTAGE LINE COVER

- State-of-the-art insulation to help prevent electrical outages caused by tree/wildlife contact with lines
- Designed to insulate existing bare lines without replacing the conductor, perfect for problem areas
- Can be applied to live lines as long as all live working requirements are adhered to and the correct application tool is used
- The tool forms, closes and feeds the MVLC along the conductor with speed and consistency
- Three sizes cover conductors from 16–800mm<sup>2</sup>
- Based on TE's Raychem products field proven experience with HV products in harsh environments
- UV stable as well as tracking and erosion resistant



| Cat No.           | Voltage Class (kV)   | Spool Length (m) | Conductor Size (mm <sup>2</sup> ) |
|-------------------|--|------------------|-----------------------------------|
| MVLC-18-A/U-C-75  | 15   | 75M              | 185                               |
| MVLC-18-A/241-C   | 25   |                  |                                   |
| MVLC-18-TOOL-LOAN | LOAN TOOL AVAILABLE TO CUSTOMERS ADVISE REQUIREMENTS WHEN ORDERING |                  |                                   |

## MVCC - MEDIUM VOLTAGE CONDUCTOR COVER

Raysulate Medium Voltage Conductor Covers (MVCC) provide high quality electrical insulation for substation leads and jumpers. These covers are made from a non-tracking silicone material that is suitable for harsh medium voltage outdoor environments. MVCC covers are split for easy installation.

### FEATURES

- Flexibility allows installation on tight bends which makes it ideal for substation applications
- Designed to protect energised conductors from flashovers due to contact with birds and animals.
- Suitable for applications up to 25kV phase to earth
- Two sizes will fit conductors with diameters ranging from 12–28mm



| Cat No.       | Conductor Diameter Range (mm) | Colour | Length (m) |
|---------------|-------------------------------|--------|------------|
| MVCC-G10/0.40 | 11                            | GREY   | 30.4       |
| MVCC-G19/0.75 | 12–19                         | GREY   | 15.2       |
| MVCC-G-25/1.0 | 19–28                         | GREY   | 7.6        |

# COVERING EXISTING CONDUCTORS

## PANTHER TAIL - LINE COVER

Panther Tail is a flexible conductor cover with a unique two tone design (black outside, yellow inside) for ease of visual inspection. Perfect for applications up to 15kV.

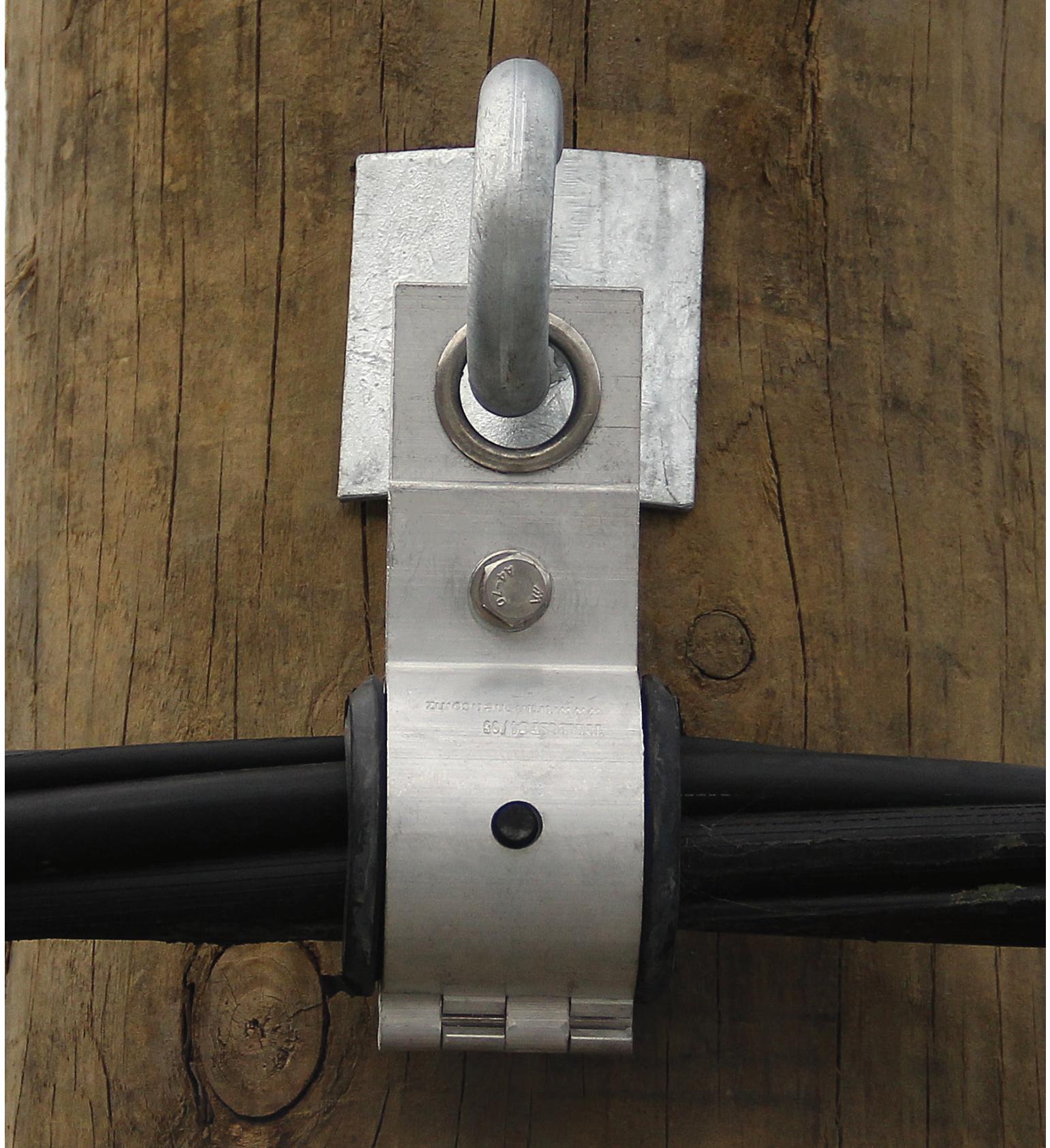
Supplied in a roll of 60m, with a special zip lock style fastening system, Panther Tails are quick and easy to install and can be cut to fit the required area exactly.



### FEATURES

- Excellent weathering, UV, & abrasion resistance
- Low voltage or high voltage applications
- Lightweight and easy to install
- Tested and approved for use up to 15kV (Class 2)

| Cat No.  | Diameter (mm) | Length (m)                     |
|----------|---------------|--------------------------------|
| TPP15    | 15            | BY METRE                       |
| TPP15-TL |               | PANTHER TAIL INSTALLATION TOOL |



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