

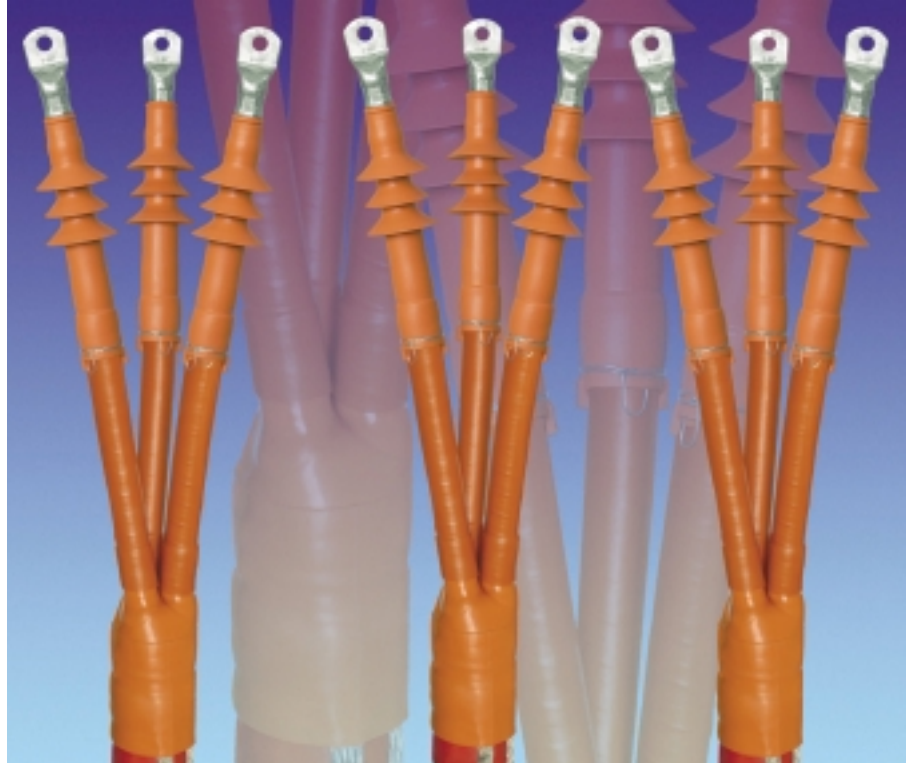
## Cold applied trifurcation system for 3-core polymeric MV cable and TFTI(O) up to 36kV

### Features

- Suitable for three core armoured and unarmoured cables with copper tape or copper shield wires
- Adjustable tail length
- Tested in accordance to IEC 60502-4
- Easy to install „milk-off holdout“

### Benefits

- Excellent UV and Ozone Resistance
- Hydrophobic
- Non-Flammable
- Self Extinguishing



The material makes the difference Raychem cable accessories have been used by utilities and industrial companies around the world for more than 30 years. This ongoing field experience has made Raychem a leader in materials technology for high-voltage applications. Our materials technology is at the core of the development of our new range of cold applied terminations.

The materials used in Raychem cable accessories have been extensively optimised with respect to product design and function, manufacturing and expected service environments.

**Trifurcation system**

The breakout and the core protection sleeves are made of high quality silicone rubber that has excellent mechanical, hydrophobic, properties.

The system is designed for indoor and outdoor use in all climate conditions. Electrodes that are picking up the leakage current protect the trifurcation system from electrical activity on its surface.

The components combined to provide the important functions required for all medium voltage products:

- Protection against sharp edges over the armour and earthing leads
- Sealing function
- Installability

**Insulation material**

The material used has undergone thoroughly testing in the development stage, yielding a silicone rubber with exceptional weathering properties. The formulation is based on proven silicon compounds, exhibiting excellent stability and long-term performance, under severe environmental conditions. It delivers outstanding, mechanical strength, elasticity weatherability properties.

**Application range**

The components will suit three core armoured (DSTA, AWA, SWA) and unarmoured cables from 25 to 400 mm<sup>2</sup>. This coverage is achieved with only two sizes of breakouts and core protection tubes for the voltage classes 7.2kV up to 36kV.

**Kit content**

Each extended TFTI /TFTO kit consists of the termination body, sealant tapes, tinned copper wire binders to form electrodes at the bottom of each termination, breakout, core protection sleeves, silicone lubricant, and glass fibre fabrics to protect the breakout against sharp edges, as well as installation instruction.

For special applications contact your local sales representative.

**Installation**

Each kit contains an easy-to-follow installation instruction with excellent visuals of the installation steps. Installation is both fast and simple.

**Test reports**

The products are tested at IEH, in Karlsruhe, Germany in accordance with IEC 60502-4.

**Quality**

All components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001.

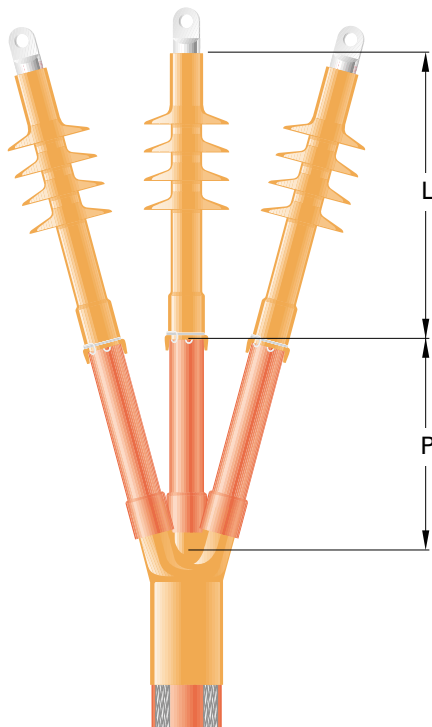
**Dimensions as delivered**

| Breakout       | Diameter over cable jacket |           | Diameter over copper tape / core screen |           |
|----------------|----------------------------|-----------|---|-----------|
|                | min. (mm)                  | max. (mm) | min. (mm)                               | max. (mm) |
| CABA-225-A/A-2 | 32                         | 89        | 15                                      | 32        |
| CABA-439-D/B-2 | 70                         | 114       | 30                                      | 39        |

| Core protection sleeve | Tube length fully recovered (mm) | Diameter over copper tape / core screen |           |
|------------------------|----------------------------------|---|-----------|
|                        |                                  | min. (mm)                               | max. (mm) |
| CNTT-38/11-200-2       | 200                              | 15                                      | 32        |
| CNTT-38/11-400-2       | 400                              | 15                                      | 32        |
| CNTT-45/25-200-2       | 200                              | 30                                      | 39        |
| CNTT-45/25-400-2       | 400                              | 30                                      | 39        |

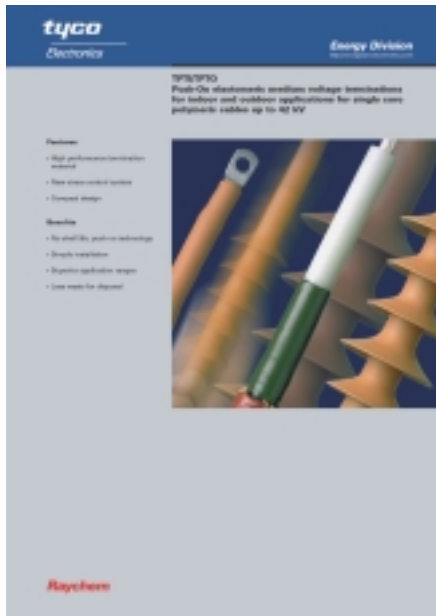
**Application range**

| Trifurcation kit | Range                 |           | Finger    |           | Tail length (mm) | Voltage class   |                                    |                                   |                                 |
|------------------|-----------------------|-----------|-----------|-----------|------------------|---|------------------------------------|-----------------------------------|---------------------------------|
|                  | Cable entry min. (mm) | max. (mm) | min. (mm) | max. (mm) |                  | 6.35/11 (12)kV Cable cross section (mm <sup>2</sup> ) | 8.7/15 (17.5)kV (mm <sup>2</sup> ) | 12.7/22 (24)kV (mm <sup>2</sup> ) | 19/33 (36)kV (mm <sup>2</sup> ) |
| TRFK-S-H1        | 32                    | 89        | 15        | 32        | 400              | 25 - 185  | 25 - 185                           | 50 - 150                          | 50                              |
| TRFK-S-H2        | 32                    | 89        | 15        | 32        | 600              | 25 - 185  | 25 - 185                           | 50 - 150                          | 50                              |
| TRFK-S-H3        | 32                    | 89        | 15        | 32        | 800              | 25 - 185  | 25 - 185                           | 50 - 150                          | 50                              |
| TRFK-L-H1        | 70                    | 114       | 30        | 39        | 400              | 150 - 400   | 240 - 400                          | 185 - 300                         | 70 - 120                        |
| TRFK-L-H2        | 70                    | 114       | 30        | 39        | 600              | 150 - 400   | 240 - 400                          | 185 - 300                         | 70 - 120                        |
| TRFK-L-H3        | 70                    | 114       | 30        | 39        | 800              | 150 - 400   | 240 - 400                          | 185 - 300                         | 70 - 120                        |

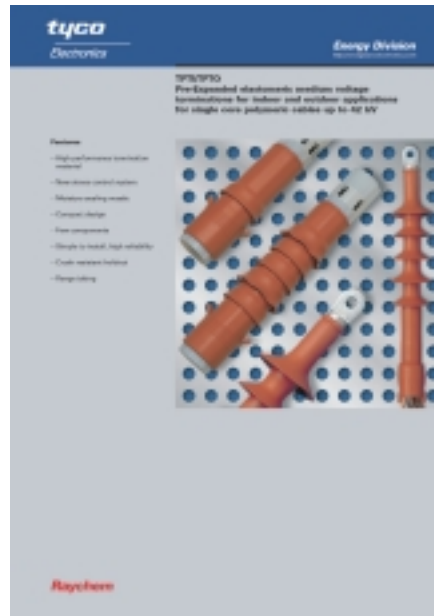


| Trifurcation kit                       | Tail length P (mm) | Indoor L (mm) | Outdoor L (mm) | Cable cross section (mm <sup>2</sup> ) |
|--|--------------------|---------------|----------------|--|
| <b>Voltage class 6.35 / 11 (12)kV</b>  |                    |               |                |  |
| TRFK-S-H1                              | 400                | ~ 270         | ~ 280          | 25 - 185                               |
| TRFK-S-H2                              | 600                | ~ 270         | ~ 280          | 25 - 185                               |
| TRFK-S-H3                              | 800                | ~ 270         | ~ 280          | 25 - 185                               |
| TRFK-L-H1                              | 400                | ~ 270         | ~ 280          | 150 - 400                              |
| TRFK-L-H2                              | 600                | ~ 270         | ~ 280          | 150 - 400                              |
| TRFK-L-H3                              | 800                | ~ 270         | ~ 280          | 150 - 400                              |
| <b>Voltage class 8.7 / 15 (17,5)kV</b> |                    |               |                |  |
| TRFK-S-H1                              | 400                | ~ 270         | ~ 310          | 25 - 185                               |
| TRFK-S-H2                              | 600                | ~ 270         | ~ 310          | 25 - 185                               |
| TRFK-S-H3                              | 800                | ~ 270         | ~ 310          | 25 - 185                               |
| TRFK-L-H1                              | 400                | ~ 270         | ~ 310          | 240 - 400                              |
| TRFK-L-H2                              | 600                | ~ 270         | ~ 310          | 240 - 400                              |
| TRFK-L-H3                              | 800                | ~ 270         | ~ 310          | 240 - 400                              |
| <b>Voltage class 12.7 / 22 (24)kV</b>  |                    |               |                |  |
| TRFK-S-H1                              | 400                | ~ 280         | ~ 390          | 50 - 150                               |
| TRFK-S-H2                              | 600                | ~ 280         | ~ 390          | 50 - 150                               |
| TRFK-S-H3                              | 800                | ~ 280         | ~ 390          | 50 - 150                               |
| TRFK-L-H1                              | 400                | ~ 280         | ~ 390          | 185 - 300                              |
| TRFK-L-H2                              | 600                | ~ 280         | ~ 390          | 185 - 300                              |
| TRFK-L-H3                              | 800                | ~ 280         | ~ 390          | 185 - 300                              |
| <b>Voltage class 19 / 33 (36)kV</b>    |                    |               |                |  |
| TRFK-S-H1                              | 400                | ~ 390         | ~ 640          | 50                                     |
| TRFK-S-H2                              | 600                | ~ 390         | ~ 640          | 50                                     |
| TRFK-S-H3                              | 800                | ~ 390         | ~ 640          | 50                                     |
| TRFK-L-H1                              | 400                | ~ 390         | ~ 640          | 70 - 120                               |
| TRFK-L-H2                              | 600                | ~ 390         | ~ 640          | 70 - 120                               |
| TRFK-L-H3                              | 800                | ~ 390         | ~ 640          | 70 - 120                               |

**TFT Brochures available:**



EPP 0671 (Push-On Version)



EPP 0854 (Pre-Expanded Version)

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