



## Energy Division

# Raychem heat-shrinkable medium voltage terminations IXSU-F/OXSU-F

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## Raychem heat-shrinkable medium voltage terminations IXSU-F/OXSU-F for indoor and outdoor applications for polymeric cables up to 42 kV

Raychem heat-shrinkable medium voltage terminations IXSU-F/OXSU-F are widely acknowledged in the industry and feature an unique integrated ZnO-based stress control system, flexibility of usage for crimp or mechanical lugs, unlimited shelf life and range-taking kits.

### The material makes the difference

Tyco Electronics Raychem cable accessories have been used by utilities and industrial companies around the world for more than 35 years. Our continuing experience in the field has made Tyco Electronics Energy Division a leader in materials science and technology for medium-voltage cable accessories applications. Our materials technology is at the core in the development of our range of heat shrink terminations. The materials used in Raychem cable accessories have been extensively optimized for design and function, manufacturing and the wide range of possible service environments.

### Designed for both indoor and outdoor applications

The components combine to provide the important functions required for all medium voltage products: electrical performance, stress control and moisture sealing. The proprietary materials used in our cable accessories are designed for optimized manufacturing, and to provide exceptional product performance in the harshest of service environments.

Variations and differences can exist amongst base polymer grades and additives. Compounds consist of polymers, additives and fillers that highly influence the properties of the base material. The formulation, the compounding procedures, material processing, product design and assembly all contribute to the overall product performance.

### Polymeric insulation

The materials used in the Raychem termination generation of products have undergone many years of development, yielding a polymeric material with outstanding electrical and weathering properties. The formulation is based on polymer compounds, and has proven to be stable and functional over several decades under severe environmental conditions. The formulation offers exceptional tracking and erosion resistance, mechanical strength, weatherability and dielectric properties.

### One piece termination

The Raychem stress control material IXSU-F/OXSU-F is a recently formulated electrical stress control compound, that is based on extensive experience with Raychem ceramic semiconductor technology (ZnO). The ZnO-based stress control system is integrated in heat-shrinkable insulating tubing. This stress control system fills any irregularities, bonds to the insulation and provides superb electrical performance.

### Product range

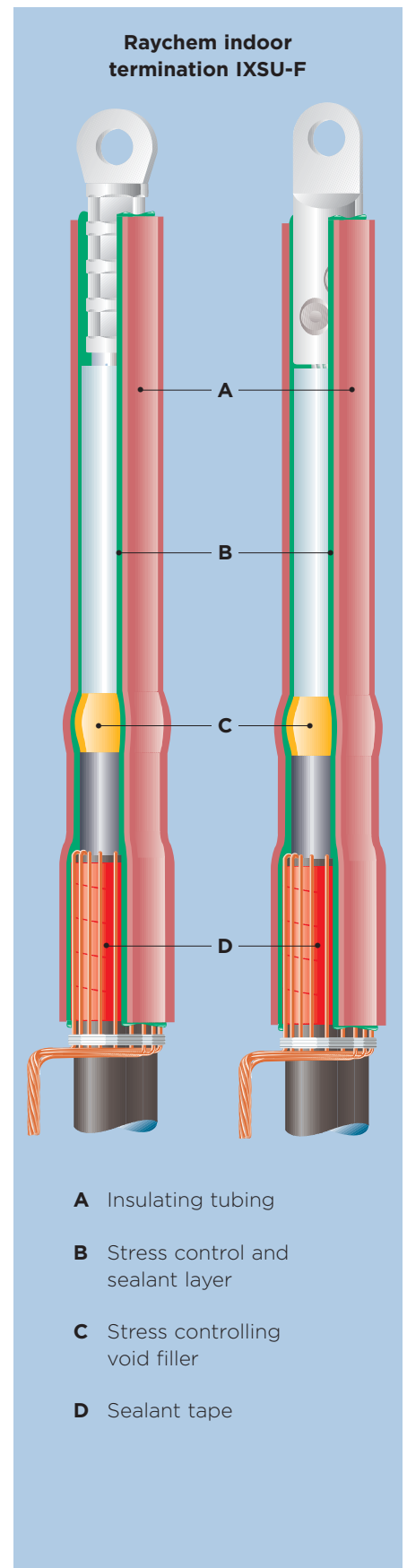
The product line is designed for polymer cables from 10 to 1200 mm<sup>2</sup> and up to 42 kV. This coverage is achieved with a minimum number of design variants.

The products are fully tested in accordance with IEEE-48, IEC 60502-4 and the CENELEC HD629.1S1 specification.

For cable box applications, the Raychem termination IXSU-F can be combined with either Raychem elastomeric bushing boot (RCAB) or Raychem insulated connection system (RICS) to fit most types of switchgear bushing currently available.

For pole top applications, we can supply Raychem termination OXSU-F along with polymeric support insulators (EPBI), Polygarde metal oxide surge arresters (HDA), and most fittings required for installation.

All raw materials of Raychem IXSU-F/OXSU-F are fully traceable.



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### Kit content

Each kit consists of the insulation tubing including coextruded stress control material, sealant tapes and installation instructions.

For 3-core cables, the kit also includes a conductive breakout and tubing for custom core length. For special applications please contact your local sales representative.

### Installation

Each kit contains easy-to-follow installation instructions with visuals of the installation steps.

- 1 Raychem terminations IXSU-F with Raychem elastomeric bushing boot (RCAB) connecting 17.5 kV plastic cables to a switchgear substation
- 2 Raychem terminations IXSU-F with Raychem insulated connection system (RICS) connecting 24 kV plastic cables to a switchgear substation
- 3 Installation of 24 kV terminations
- 4 Overhead line connections for 24 kV using Raychem terminations OXSU-F and polymeric support insulators (EPBI)
- 5 Raychem terminations IXSU-F connecting 24 kV plastic cables to a substation transformer
- 6 Raychem terminations IXSU-F for 36 kV transformer connections
- 7 The slim compact Raychem IXSU-F system in a 12 kV transformer for propulsion motor on a ship

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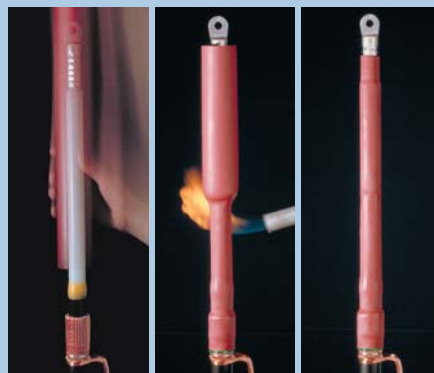
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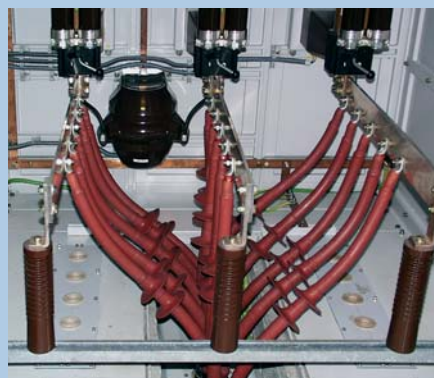
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## Raychem heat-shrinkable medium voltage terminations IXSU-F/OXSU-F for indoor and outdoor applications for polymeric cables up to 42 kV

### Features

High-quality termination material

Unique zinc oxide-based stress control system

Integrated stress control over entire termination length

Designed for crimp and mechanical lugs

Compact design

Range taking kit

No shelf life time limitation

### Benefits

Outstanding UV properties  
Exceptional track and erosion resistance  
Extremely hydrophobic  
High-quality, high-voltage insulation material

Superb high-impulse withstand performance

Ensures stress control system is correctly positioned

Flexibility

Space saving

Fewer kits for a wide range of cable sizes

Inventory reduction

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