



RAYCHEM HEAT SHRINK JOINTS (EHVS-H) UP TO 72.5 KV

KEY FEATURES

- High level of mechanical protection against environmental influences
- Moisture sealing
- Suitable for paper and polymeric cable constructions
- Mechanical shear bolt connector
- Handles different insulation layers like XLPE, EPR or paper MIND
- Tested according to IEEE 404 and IEC 60840

TE Connectivity (TE), Raychem Heat Shrink Joint (EHVS-H) is based on a heat shrink design for voltage classes up to 72.5 kV. Polymeric insulated cables of various designs can be adapted with respect to shielding and metal sheath.

Our heat shrink accessories have been used by utilities and industrial companies around the world for more than 35 years. This ongoing field experience has made TE a leader in materials science and technology for high voltage applications. The TE Energy materials technology is at the core of the development of our heat shrink joints. The materials used in our cable accessories have been extensively optimized with respect to product design and function, manufacturing and expected service environments. Furthermore, the system is suitable for paper and polymeric cable constructions and is also designed to accommodate modern jointing requirements such as mechanical shear bolt connectors.

The conductive outer layer together with the insulating middle layer represents the heat-shrinkable hold out for the inner elastomeric layer of the joint body. During the shrinking process the stored recovery force of the elastomeric layer is released and adds up to the recovery force generated by the heat-shrinkable outer layers of the joint body. The resulting high-compression forces as well as the outstanding ability of geometrical adjustment provides tight electrical interfaces and a high-performing seal against moisture ingress.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Raychem Heat Shrink Joints up to 72.5 kV



A heat-shrinkable tube with a strong wall thickness and internally pre-coated with adhesive, provides the outer protection and a lasting moisture sealing.

Grounding kits for commonly used cable constructions like lead sheath, corrugated aluminum sheath, copper tape, wire screens and combinations are available.

TECHNICAL DATA

| | | 52 kV | 72.5 kV |
|---------------------------------------|------------|-----------------------|-----------------------|
| Max. operating voltage | U_m (kV) | 52 | 72.5 |
| Standards | | IEC 60840 IEEE 404 | IEC 60840 IEEE 404 |
| Rated voltage | U_0/U | 26/46 | 36/66 |
| Basic impulse level | (kV) | 250 | 325 |
| Max. continuous operating temperature | (°C) | 90 | 90 |
| Max. conductor emergency temperature | (°C) | 250 | 250 |
| Creepage distance | kA / 1sec | 10 | 10 |

FOR SHIELD BREAK JOINTS

| | | 52 kV | 72.5 kV |
|---|----|-------|---------|
| DC voltage between metallic sheaths/screens | kV | 20 | 20 |
| DC voltage between metallic sheath/screen and earthed exterior | kV | 20 | 20 |
| Lightning impulse voltage between metallic sheath/screen | kV | 60 | 60 |
| Lightning impulse voltage between metallic sheath/screen and earthed exterior | kV | 30 | 30 |

APPLICATION RANGE

| | | 52 kV | 72.5 kV |
|--------------------------|-----------------|---------|---------|
| Conductor (Al/Cu) | mm ² | 2500 | 2500 |
| Diameter over insulation | mm | 30 - 86 | 30 - 86 |
| Diameter over jacket | mm | 100 | 100 |



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