



HIGH VOLTAGE HEAT SHRINK JOINTS EHVS-52H-I/EHVS-52H-S/ EHVS-52H-G

UP TO 52 kV

KEY FEATURES

- Compact and modular design
- Heat-shrinkable stress control sleeves
- Torque controlled connector
- Proven shield continuity concept
- Short cut-back dimension
- Cable size transition possible
- Water and corrosion resistant
- No special tools required
- Lightweight components
- Unlimited shelf life under normal storage conditions
- Tested in accordance to IEEE 404 and IEC 60840

TE Connectivity's (TE) Raychem High Voltage Heat Shrink Joints (EHVS-H) is designed for voltages up to 52 kV. It is compatible with polymeric insulated cables independent of the manufacturer and can be adapted with respect to grounding required for various cable constructions.

The installation of the joint can be done by a trained installer equipped with conventional tools. The termination is designed and tested according to the following standards: IEC-60840, IEEE-404.

Electrical stress control tubes are used to smooth out the electrical field over the connector and the cable ends, this is achieved by the unique electrical properties of the heat-shrink material. The connector is available with torque controlled shear-off bolt version. It is suitable for all common conductors made of aluminum or copper. The size transition connector is able to link cables with different conductor and/or insulation diameter. A heat shrinkable tube with a strong wall thickness and internally pre-coated with adhesive, provides the outer protection and lasting moisture sealing. Shield break, straight through and grounding connections are possible. Furthermore, the system is suitable for both paper and polymeric cable constructions and is also designed to accommodate modern jointing requirements. Solderless connection is used to connect different metal shields.

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

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MECHANICAL DATA

Total length of the joint (approx.)	up to 1350 mm
Outer diameter of joint (approx.)	up to 135 mm
Weight approx.	10 kg
Packing information	1620 x 260 x 240 mm

DESIGN DATA

Diameter over insulation	30-93 mm
Max cross section	2500 mm ²
Material of outer protection	WCSM (Polyolefin)
Method of Stress control	Impedance
Type of screening	Inline, shield break & grounding
Max. Permissible dielectric stress	4 kV/mm (at insulation screen of cable)
Installation temperature/Storage	0° C - +40° C
Operation temperature	-55° C - +55° C

ELECTRICAL DATA

Rated voltage U ₀ /U (U _m)	26/46 (52) kV
Rated frequency	50/60 Hz
Basic impulse level	250 kV
AC withstand voltage	65 kV
Partial discharge at ambient and elevated temperature	39 kV
Heating cycle voltage	52 kV

FOR SHIELD BREAK JOINTS

DC Voltage between metallic sheaths/screens	25 kV
DC Voltage between metallic sheaths/screen and earthed exterior	25 kV
Lightning impulse voltage between metallic sheath/screen	60 kV
Lightning impulse voltage between metallic sheath/screen and earthed exterior	30 kV

APPLICATION RANGE

	Diameter over prepared cable insulation	Diameter over sheath
Size 1	30 - 45 mm	≤ 60 mm
Size 2	42 - 55 mm	≤ 70 mm
Size 3	52 - 65 mm	≤ 80 mm
Size 4	62 - 77 mm	≤ 90 mm
Size 5	70 - 93 mm	≤ 115 mm

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