

EPKE**Live End Seals for 12 and 24 kV
single core plastic cable****EPKE Live End Seals for
Enhanced Cable Protection**

The EPKE product line includes two different end seal kits covering an application range from 70 to 500 mm². No special crimping tools are required for the installation. The cable can be energized immediately after installation.

Third party damage to cable can be caused by heavy vehicles, such as excavation machinery, etc., during construction work. The live end seals allow partially installed networks to be energized, and therefore enable the detection of third party damage as soon as it occurs. The end seal also protects the cable against moisture ingress.

**Design and Function of the
Product**

The end seal is designed to fit most 12 and 24 kV single core plastic cables with screen wire or tape shielding which meet IEC, VDE and BS. It has been tested in accordance with CENELEC HD 629.1 S1 specification. The cable is prepared as for a standard joint. Each end seal kit is designed to fit a specific conductor size range. At the core of the kit is an insulating rod with a bore to fit the end of the conductor. Smaller conductor diameters are built up with copper mesh in order to accommodate the range-taking insulation rod. The composite rod is slid over the conductor. Stress grading mastic is applied to the cable screen cut and the composite rod screen before the stress control tube is shrunk down.

The electrical insulation is provided by a screened composite insulating tube which is then shrunk in place over the stress control tube. This tube is shielded by copper mesh and connected to the earth wires. The entire end seal is covered with an insulating outer sealing sleeve.

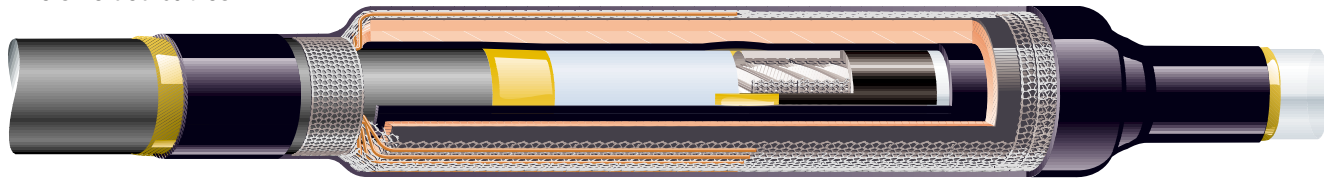
**Features**

- A full product line with only two different sizes.
- Suitable for both wire and tape shielded cables.
- Installation requires no need of special tools. (e.g. crimps, etc)
- Same insulation technology as Raychem joints.

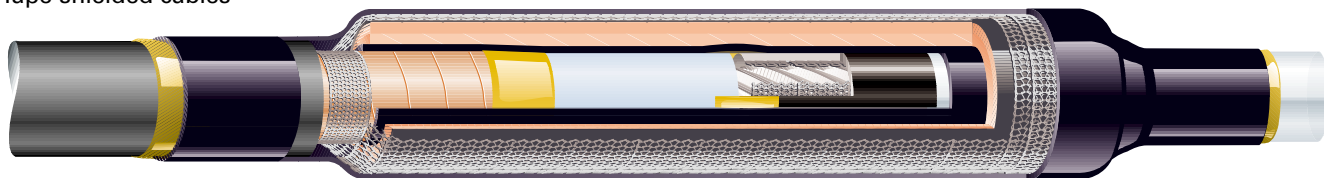
Benefits

- Covers all commercial cable sizes.
- Fits most plastic single core cable types.
- Protects cable against moisture ingress.
- Enables detection of third party damage.
- Energizing can take place immediately after installation.

Wire shielded cables



Tape shielded cables



Selection table

Voltage class U _o /U	Kit description	Cable cross section	Ø range insulation	Ø range oversheath
6,9/12 and 13,8/24 kV	EPKE 24B/1XU	70-240 mm ²	17.6 - 33.6 mm	25 - 46 mm
	EPKE 24C/1XU	240-500 mm ²	25.7 - 41.6 mm	33 - 54 mm

Installation Instruction

EPP 0974-3/04

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