



Energy Division

Raychem filled joints Type PXE for armoured and unarmoured power and control cables up to 1 kV

- Range-taking joint kits with few components for quick and simple installation
- Clear, robust, snap-together joint shells for easy positioning and filling
- Joint Insulation, sealing and mechanical protection provided by proven two-part filler materials supplied in convenient foil packs
- Choice of kits with or without screw connectors for copper and aluminium conductors
- Core separator to ensure adequate clearance between conductor connectors
- Easy-to-follow pictorial installation instruction
- Earth bonding components included in kits for armoured cables
- Abrasive cloth, sealing tape and protective gloves included in the kit
- Performance tested to European standard EN 50393

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The Raychem PXE product family forms part of a large and growing range of LV filled joints from Tyco Electronics. Joints are available to cater for all common types and sizes of power distribution and control cables, including both straight and branch arrangements, and accommodating all conductor connection methods.

Raychem joints PXE described here are based on Tyco Electronics proven in-house filler material technology and a range of clear, robust, snap-together joint shells.

User-friendly kits

Joint kits selected from the tables below include joint shells, two-part polyurethane resin in double-chamber packs for enclosed mixing, core separator, abrasive cloth tape, sealant tape and a picture-based installation instruction.

Kits are available with or without conductor screw connectors. Kits with connectors each include four simply-installed screw connectors (hexagonal key type) from the Tyco Electronics connector range. Use of screw connectors eliminates the need for special compression/crimp tooling.



Kits for armoured cables include components for earth continuity bonding.

Simple installation

Installation is straightforward. The joint shells are trimmed to suit the cable size; the cable ends are prepared according to the instruction pictures; conductor connectors are fitted; the core separator is placed between the connectors; the joint shell is snapped closed over the joint and the ends are sealed; the filler material is mixed and poured. The cable can be energised immediately after installation.

Proven performance

The PXE straight joint range with screw connectors has been fully type tested to the new European standard EN 50393. This standard replaces CENELEC document HD 623.



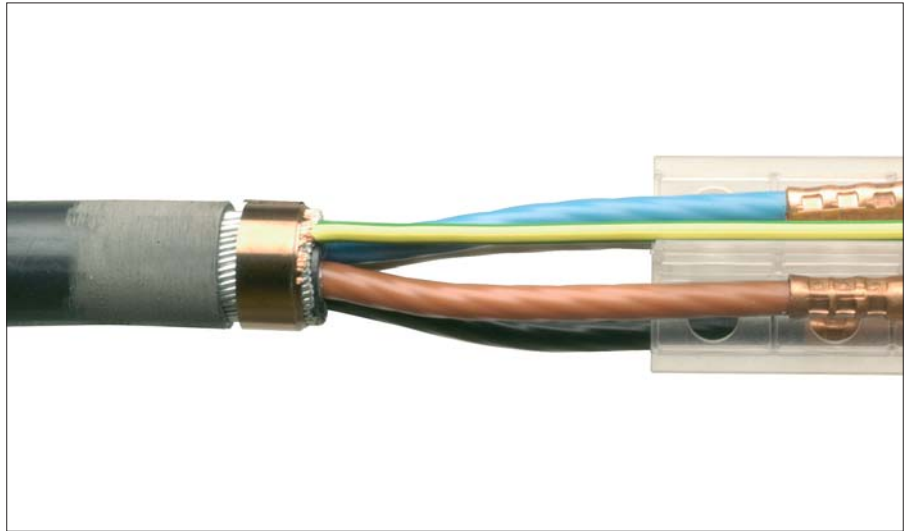
Kit contents



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Armour continuity

Joint kits for armoured cables include a length of insulated flexible copper conductor and steel roll springs to make simple but effective bonds on to wire, strip or tape armour. The bonding conductor is sized to match normal fuse protection.



Choice of filler material

Proprietary GUROFLEX non-hazardous filler is available as an alternative to standard polyurethane. GUROFLEX needs no safety classification, is insensitive to installation temperature and can be removed to allow joint re-entry if required.



Joints filled with GUROFLEX and polyurethane compounds

T-branch joints for armoured and unarmoured cables

T-branch joints are suitable for main and branch cables up to 16 mm². These joint kits have the same features as the straight joints but do not include a core separator.



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Straight joints for unarmoured cables (Connectors not included)

Kit reference	Cable conductor size - maximum (mm ²)		Cable entry diameter (mm)
	2 & 3 core	4 core	
PXE-SU1	10	6	6-19
PXE-SU2	25	10	6-27
PXE-SU3	35	16	14-34
PXE-SU4	50	25	16-37
PXE-SU5	70	50	20-44
PXE-SU6	120	95	26-52
PXE-SU7	185	150	35-67

Straight joints for armoured cables (Connectors not included)

Kit reference	Cable conductor size (mm ²)		Cable entry diameter (mm)
	2 & 3 core	4 core	
PXE-SW2	1.5-10	1.5-6	6-27
PXE-SW3	6-25	4-10	14-34
PXE-SW4	25-35	10-16	16-37
PXE-SW5	25-70	16-35	20-44
PXE-SW6	95-150	35-70	26-52
PXE-SW7	185	95-120	35-67

Straight joints for armoured and unarmoured cables (Conductor screw connectors included)

Kit reference	Cable conductor size: 4 core* (mm ²)		Cable entry Diameter (mm)
	Unarmoured	Armoured	
PXE-SU2-C1	PXE-SW2-C1	1.5-6	6-27
PXE-SU4-C1	PXE-SW4-C1	10-16	16-37
PXE-SU5-C1	PXE-SW5-C1	16-35	20-44
PXE-SU6-C1	PXE-SW6-C1	35-70	26-52
	PXE-SW7-C1	95-120**	35-67
PXE-SU7-C1		95-150**	35-67

* Joints are suitable for use with 2 & 3 core cables of these sizes but build-up of cable diameter may be necessary.

** Suitable also for 3 core cables up to 185 mm².

T-branch joints for armoured and unarmoured cables (Connectors not included)

Kit reference	Cable conductor size (mm ²)		Cable entry diameter (mm)
	U=unarmoured	W=armoured	
PXE-TU1	4-25	2.5-10	14-35
PXE-TU2	10-35	6-16	16-35
PXE-TW1	1.5-10	1.5-6	14-35
PXE-TW2	6-25	4-10	16-35

For further information on PXE joints and other Tyco Electronics cable accessories products contact your local sales representative or product stockist.

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