

TE CONNECTIVITY'S (TE) PXE RESIN-FILLED JOINTS

For Power and Control cables up to 0.6/1 kV

TE's PXE Resin-filled Joints

for Power and Control Cables up to 0.6/1kV

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

PXE joints described here are based on TE Connectivity proven inhouse 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 or GUROFLEX-N resin in double-chamber packs for enclosed mixing, core separator, abrasive cloth tape, sealant tape and a picture-based installation instruction.

Kits are available without conductor connectors. Applicable screw or crimp connectors are available from the TE Connectivity connector range. Use of screw connectors eliminates the need for special compression/crimp tooling.



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 joint range has been fully type tested to the European standard CENELEC EN 50393.



Features and benefits

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 filler material. GUROFLEX-N non-hazardous filler is available as an alternative to standard polyurethane RAPID filler

- Core separator to ensure adequate clearance between conductor connectors
- Easy-to-follow pictorial installation instruction
- Performance tested to European standard CENELEC EN 50393

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Choice of filter material

Proprietary GUROFLEX-N non-hazardous filler is available as an alternative to standard polyurethane. GUROFLEX-N is label-free, insensitive to installation temperature and can be removed to allow joint re-entry if required.

GUROFLEX-N is based on renewable raw materials - friendly to health and environment.



Joints filled with GUROFLEX-N and polyurethane compounds.

T-branch joints

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 WITH GUROFLEX-N FILLER MATERIAL (CONNECTORS NOT INCLUDED)

Kit reference	Filler Material	Volume (l)	Application Range (mm ²)		Order Number
			min.	max.	
PXE-SU1-GD	GUROFLEX-N	0,2	3-5 x 1,5	4 x 4/5 x 2,5	CY4544-000
PXE-SU2-GD	GUROFLEX-N	0,2	3-5 x 1,5	4 x 10/5 x 6	CY4545-000
PXE-SU3-GD	GUROFLEX-N	0,35	4 x 2,5/5 x 1,5	4 x 16/5 x 10	CY4546-000
PXE-SU4-GD	GUROFLEX-N	0,55	4-5 x 4	4 x 25/5 x 16	CY4547-000
PXE-SU5-GD	GUROFLEX-N	1,2	4-5 x 10	4 x 50/5 x 25	CY4548-000
PXE-SU6-GD	GUROFLEX-N	1,7	4-5 x 25	4 x 95 (150*)	CY4549-000
PXE-SU7-GD	GUROFLEX-N	3,65	4 x 70	4 x 150 (240*)	CY4550-000

*crimp connectors

STRAIGHT JOINTS FOR UNARMoured CABLES WITH POLYURETHANE FILLER MATERIAL (CONNECTORS NOT INCLUDED)

Kit reference	Filler Material	Volume (l)	Application Range (mm ²)		Order Number
			min.	max.	
PXE-SU1-43BD	RAPID 4300B	0,2	3-5 x 1,5	4 x 4/5 x 2,5	F56283-000
PXE-SU2-43BD	RAPID 4300B	0,2	3-5 x 1,5	4 x 10/5 x 6	E20629-000
PXE-SU3-43BD	RAPID 4300B	0,35	4 x 2,5/5 x 1,5	4 x 16/5 x 10	F46377-000
PXE-SU4-43BD	RAPID 4300B	0,55	4-5 x 4	4 x 25/5 x 16	D39379-000
PXE-SU5-43BD	RAPID 4300B	1,2	4-5 x 10	4 x 50/5 x 25	E79642-000
PXE-SU6-43BD	RAPID 4300B	1,7	4-5 x 25	4 x 95 (150*)	E28567-000
PXE-SU7-43BD	RAPID 4300B	3,65	4 x 70	4 x 150 (240*)	D30339-000

*crimp connectors

T-BRANCH JOINTS FOR UNARMoured CABLES WITH GUROFLEX-N FILLER MATERIAL (CONNECTORS NOT INCLUDED)

Kit reference	Filler Material	Volume (l)	Application Range (mm ²)		Order Number
			Main cable	Branche cable	
PXE-TU1-GD	GUROFLEX	0,55	5 x 1,5-10	5 x 1,5-10	CZ5904-000
PXE-TU2-GD	GUROFLEX	1,2	5 x 6-16	5 x 6-16	CZ5905-000

T-BRANCH JOINTS FOR UNARMoured CABLES WITH POLYURETHANE FILLER MATERIAL (CONNECTORS NOT INCLUDED)

Kit reference	Filler Material	Volume (l)	Application Range (mm ²)		Order Number
			Main cable	Branche cable	
PXE-TU1-43BD	RAPID 4300B	0,55	5 x 1,5-10	5 x 1,5-10	A34127-000
PXE-TU2-43BD	RAPID 4300B	1,2	5 x 6-16	5 x 6-16	F04725-000

SWA-Kits (armour connection kit) for armoured or shielded cables are available in different sizes upon request.

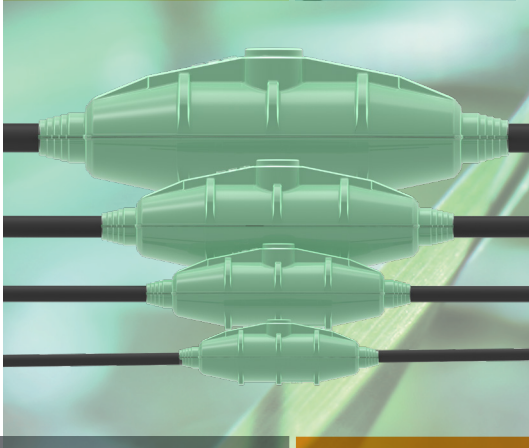
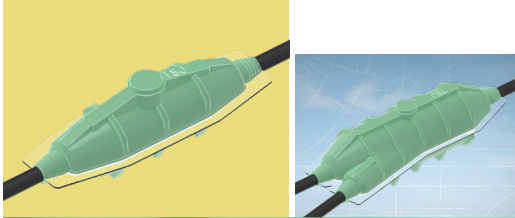
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TE CONNECTIVITY'S (TE) TSJ/TBJ JOINTS WITH GUROFLEX-N RESIN

For armoured power cables up to 1 kV

- A comprehensive range of resin-filled straight joints and branch joints for low voltage armoured power cables with conductor sizes up to 400 mm².
- Designed with generous dimensions to accommodate modern mechanical connectors needing no special installation tooling.
- An environmentally friendly resin manufactured from raw materials supplied with the kit in a double chamber bag provides insulation, sealing and mechanical protection for the completed joint.
- Clear rigid joint shells to aid correct installation
- Armour continuity bonding components included in every kit.
- Qualified to national and international performance standards.

Application

TSJ and TBJ joints are designed for 2-, 3- and 4-core power cables with rated voltage up to 0,6/1,0 (1.2) kV. They are suitable for cables with:

- Copper or aluminium (solid or stranded) conductors up to 400 mm²
- XLPE, PVC or EPR insulation
- Wire armour (SWA) or strip armour
- PVC or PE sheath TBJ branch joints are suitable for branch cables up to the maximum main cable conductor size for each kit. All kits are also suitable for unarmoured cables. See the kit selection table opposite. Select from the range of TSJ and TBJ kits according to conductor size and cable diameter.

Quality

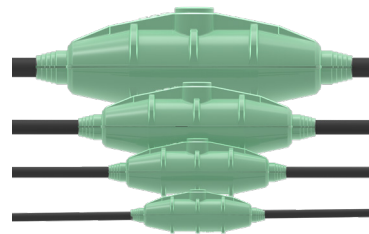
ISO 9000 series and ISO 14001 certifications underline the TE's commitment to quality and the environment. All TE products are subject to a series of rigorous checks from the time they enter our plants as raw material until they leave as finished products. Re-qualification testing is carried out on a regular basis with installed products.

Customers can thus have full confidence in the products, services and data supplied.

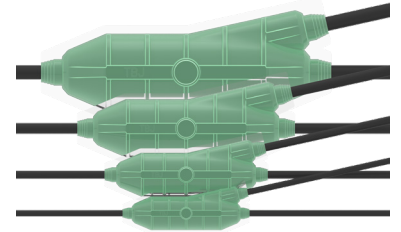
Design

TSJ and TBJ joints are designed for simplicity and easy installation. They are part of TE's cable accessories range, known for more than 60 years for its expertise, reliability, and quality.

Clear rigid high-impact polystyrene joint shells provide generous jointing dimensions and allow easy viewing to check connector positioning and resin filling. The joint shells are supplied complete with pre-applied foam sealing strips, fixing clips and sealing tape. Filling the joint is made easier with a convenient pouring funnel and sealing cap.



TE Straight Joints (TSJ)



TE Branch Joints (TBJ)

All joints are supplied with TE Connectivity range of B&H mechanical connectors. These connectors come complete with moulded insulation shrouds which offer reliable and robust insulation reducing installation time and making live working easier and safer.

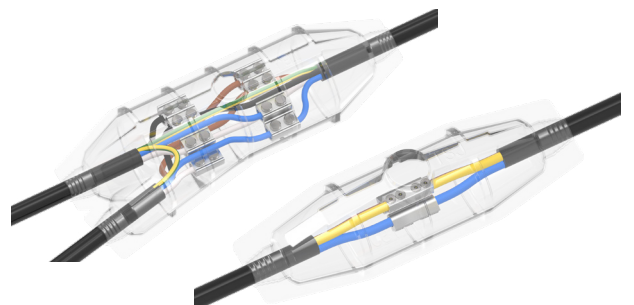
For applications above 70 mm², the kits complete with shear-controlled mechanical connectors suitable for stranded, solid, sectoral and round conductors.

Components for armour bonding are included in the kit. The continuity bond is an insulated flexible conductor with short circuit rating suitable for fuse-protected circuits.

Joints are filled with Guroflex-N resin supplied in a double chamber bag for easy mixing and pouring.

Each joint kit includes clear and detailed installation instructions. Kit components are well protected in robust box packaging with clear labelling.

The combination of Guroflex-N resin and B&H mechanical connectors at the heart of TSJ and TBJ joints has been fully qualified to the respected UK performance standard Engineering Recommendation C81, including the requirements of BS 7888 and CENELEC HD623 (EN 50393).



SELECTION TABLE FOR TSJ

Part description	Cable conductor size (mm ²)		Cable entry diameter (mm)		Connector range (mm ²)	
	2- & 3-core*	4-core*	min.	max.	min.	max.
TSJ-6	10	6	9	21	4	25
TSJ-16	25	16	15	27	4	25
TSJ-35	35	35	21	33	4	50
TSJ-70	95	70	29	41	35	95
TSJ-120	150	120	39	57	35	185
TSJ-185	240	185	49	67	35	185
TSJ-300	300	300	59	77	70	300
TSJ-400	400	400	59	77	185	400

*Cable range applicable for both running main and branch cable

SELECTION TABLE FOR TBJ

Part description	Cable conductor size (mm ²)		Cable entry diameter (mm)		Connector range (mm ²)	
	2- & 3-core*	4-core*	min.	max.	min.	max.
TBJ-6	10	6	9	21	4	35
TBJ-16	25	16	15	27	4	35
TBJ-35	35	35	21	33	4	35
TBJ-70	95	70	29	41	35	95
TBJ-120	150	120	39	57	35	185
TBJ-185	240	185	49	67	35	185
TBJ-300	300	300	59	77	70	300
TBJ-400	400	400	59	77	185	400

*Cable range applicable for both running main and branch cable

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