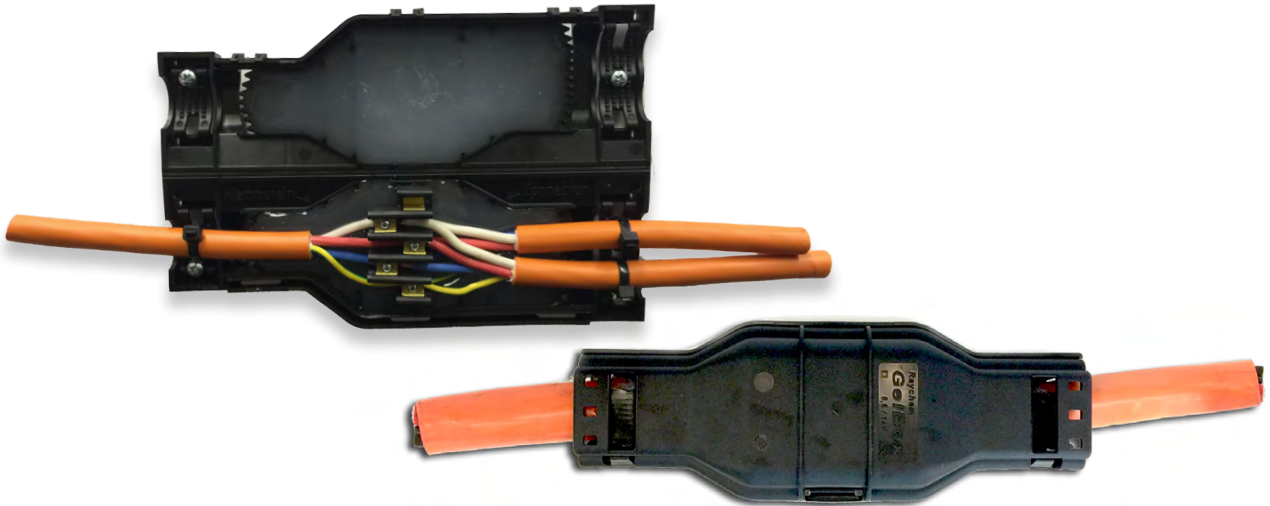# KGEL-JNT

Raychem
GEL PRODUCTS

IP68 RATED INLINE AND BRANCH STYLE CABLE JOINTS SUITABLE TO 1KV

Electrical installers now have the full range of branching capabilities from 2 x 1.5 mm2 up to 5 x 16 mm2 with four different joint types only. It is easier than ever to install cable connections for underground, direct buried and overhead applications.

Application

- Street, garden and pool lighting

- Connection of outdoor equipment like pumps, filters, garage door openers, loudspeakers, door intercom systems etc.

- Frost protection systems

- Cable trays and cable ducts

- Protection of small electronic boards

PowerGel sealing gel technology

The KGEL-JNT enclosure with its revolutionary PowerGel sealing gel, covers and seals the joint quickly and easily, saving both time and effort. PowerGel sealing gel is rated to 90°C continuous temperature and is halogen-free with an unlimited shelf life. The KGEL-JNT joint series is yet another of TE Connectivity's field proven PowerGel filled products for the demanding requirements of the electrical power industry.

Application range

Four sizes for straight and branch joints are available, ranging from 10 up to 50mm2 single core- and multi-core cables from 1.5 up to 16mm2.

For details see Selection Table.

Features and benefits

- Re-enterable for easy fault finding

- IP68 moisture & dust ingress protection

- Quick, easy and clean installation

- Reliable protection against humidity and water

- Suitable for outdoor and direct-buried applications (IP 68)

- Full branch capabilities without cutting of main cables

- Optimized joint design with integrated strain relief

- Easy to install, latchable connector blocks

- Qualified to international joint standard CENELEC EN 50393

- Halogen-free and UV-resistant

- Unlimited shelf life

- Environment-friendly and no subject to labeling requirements

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Enclosure design

The halogen-free poly-propylene enclosure is designed to house straight and branch connections in one solution only. This helps to minimize the required stock level and serves a wide range of applications. KGEL-JNT joints can be snap-closed by hand due to its flexible wave-like gel barriers. A strain relief is integrated within the enclosure and quickly installed with two cable ties. All joints fulfil the requirement of ingress protection class IP68

Performance tests

KGEL-JNT joints are qualified to CENELEC EN 50393, the European specification for buried applications. This includes a three week heatcycling test with the joint immersed in one metre depth of water.

Easy to install

Closing the rugged KGEL-JNT enclosure is literally a snap. Its short length also allows installation in cramped locations. No special tools needed, no rip cords to break, and no trimming, mixing, pouring, or heating required; KGEL-JNT can be put into service immediately.

Enclosure design

PowerGel filled enclosure, universal connector block including sliding nut insertion tool and allen key (for KGEL-JNT 2/3 joints), tie wraps for a strain relief of the cables and illustrated installation instructions. All joints are available in one piece packaging.

Universal connector Block for KGEL-JNT 2/3 joints

With the unique universal connector block installation is very straightforward, as the block snaps into the bottom side of the enclosure. A supplementary tool helps to insert the sliding nuts and holds them in place until the connection is finalised.

Connector recommendation for KGEL-JNT 0/1 joints

All types which dimensionally fit into the enclosure, such as terminal strips, push-wire connectors, mechanical blocks and C-crimp connectors.

Part No.	Connector	Main Cable mm²	Branch Cable (mm²)	Dimensions (mm)	Connector Size Max (mm)
KGEL-JNT-00	NO	2-3 x 1.5-2.5 (1 x 10-50)	2-3 x 1.5 (1 x 10-16)	100 x 37 x 24	26 x 24 x 16
KGEL-JNT-00-WC	YES	2-3 x 1.5-2.5 (1 x 10-50)	2-3 x 1.5 (1 x 10-16)	100 x 37 x 24	INCLUDED
KGEL-JNT-01	NO	3-5 x 1.5-2.5 (1 x 10-50)	3-5 x 1.5 (1 x 10-16)	139 x 51 x 24	26 x 38 x 16
KGEL-JNT-01-WC	YES	3-5 x 1.5-2.5 (1 x 10-50)	3-5 x 1.5 (1 x 10-16)	139 x 51 x 24	INCLUDED
KGEL-JNT-02	YES	3-5 x 1.5-6	3-5 x 1.5-6	233 x 78 x 40	INCLUDED
KGEL-JNT-03	YES	3-5 x 6-16	3-5 x 6-16	313 x 90 x 47	INCLUDED

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