



## RAYCHEM HEAT-SHRINKABLE JOINTS - EMKJ FOR FLEXIBLE CABLES UP TO 1 KV

### KEY FEATURES

- Highly flexible Joint
- No special equipment required
- Immediate service after installation
- Kit covers wide range of cable sizes and varying cable constructions
- Meets CENELEC 50393

TE Connectivity (TE) joints for flexible cables are characterized by their performance and ease of use. They are a result of TE's capability in materials science and long experience in the field of power engineering.

Ease of installation: the connector insulating sleeves and outer joint sleeve are made of tough, flexible polymers specially developed and cross-linked to give them an „elastic memory“. When positioned over the joint and heated, each component shrinks to a predetermined diameter tightly fitting the cable and automatically providing the correct insulation thickness in one operation.

Moisture sealing: the components of the joint are supplied internally pre-coated with special adhesives. The heat of installation causes the adhesive to melt and flow under the shrinking action, bonding to the cable insulation and making a robust seal against water and chemicals. Heat-sensitive paint on the outer joint sleeve provides the installer with an additional check that he has applied sufficient heat to activate the adhesive.

Flexible and abrasion resistant: tough, pliable materials and a small overall diameter make TE's Raychem flexible joints suitable for use on trailing cables. Their resistance to the stress and strain of repeated winding onto take-up reels has been confirmed by a rigorous test programme and reliable service in demanding field conditions in many countries.

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

## Raychem Heat-Shrinkable Joints - EMKJ



In modern heavy industries such as open-cast mining, ship-building, steelworks and chemical plants flexible cables used for power supply have to withstand rough handling and prolonged exposure to abrasive materials and fluids.

To meet the need for a fast, dependable connection and repair technique for such cables, TE Connectivity developed a joint system which is slim and flexible enough to allow spooling of the cable, quick to install and resistant to aggressive liquids and mechanical abuse - Raychem Heat-Shrinkable Joints - EMKJ

### MINIMUM PERFORMANCE FOR RAYCHEM HEAT-SHRINKABLE JOINTS FOR FLEXIBLE CABLES UP TO 1 KV

Test Sequence		Result
<b>Insulation Resistance</b>	between conductor and grounded water bath	≥ 1000 MΩ
<b>Impact</b>	4 kg wedge dropped 6 times from 2 m	no functional damage
<b>A.C. Voltage Withstand</b>	4 kV for 15 min	no breakdown and no flashover
<b>Load Cycling</b>	63 cycles pass 5 h heating, 3 h cooling Conductor temperature as for cable specification	pass
<b>A.C. Voltage Withstand</b>	repeat	no breakdown and no flashover
<b>Load Cycling</b>	as above, with cable in 1m water, oversheath removed	pass
<b>Insulation Resistance</b>	repeat	>1000MΩ
<b>Flexibility</b>	Internal test method	no electrical or mechanical failure
<b>Insulation Resistance</b>	repeat	>1000MΩ
<b>A.C. Voltage Withstand</b>	repeat	no breakdown and no flashover
<b>Abrasion</b>	DIN 53516	less than cable oversheath
<b>Flame Resistance</b>	IEC 60332	self-extinction
<b>Notes:</b>	1. All voltages are phase to ground 2. Further details are given in Raychem specification PPS 3013	

\* Kit does not include connectors. Use crimp connectors **only!**

### ORDERING INFORMATION

The joints of the TE Connectivity product family Raychem for flexible cables up to 1 kV are available for shielded and unshielded cables with 2 to 5 cores and cross-sections up to 120 mm<sup>2</sup>. A full selection table is available on request. For further details on this or any other TE Connectivity products please contact your local sales representative.

[te.com/energy](http://te.com/energy)

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