

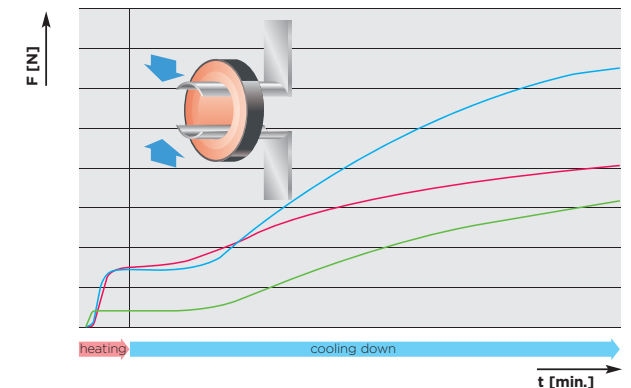
Raychem Rayfit joint sleeve

The outer conductive layer and insulating middle layer provide the heat-shrinkable hold-out for the inner elastomeric layer of the joint sleeve. During the heat-shrink installation process, the stored recovery force of the elastomer is released and combines with the recovery force of the heat-shrinkable layers. As a result, the electrical interfaces are reduced to the minimum and the joint sleeve provides a tight electrical interface. The elastomeric characteristic of the materials, combined with the rigid outer heat-shrinkable (screen) layers enable the joint to follow the thermally induced dimensional changes of the cable insulation.



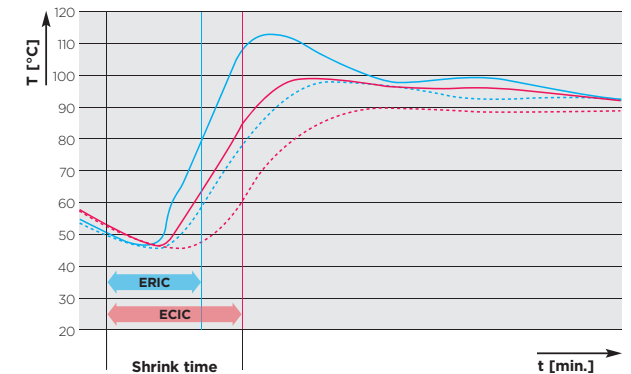
Joint sleeve recovery forces during installation

- New triple layer elastomeric ERIT
- Dual layer elastomeric ECIT
- Co-extruded heat-shrinkable sleeve CICM (non elastomeric)



Joint sleeve temperature distribution during installation

- New triple layer elastomeric ERIC
 - interface stress control to joint sleeve
 - interface stress control to cable dielectric
- Existing dual layer elastomeric ECIC
 - interface stress control to joint sleeve
 - interface stress control to cable dielectric



Raychem Heat-shrinkable Joint Sleeve Rayfit
for Medium Voltage Joints up to 36 kV

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Raychem
from TE Connectivity

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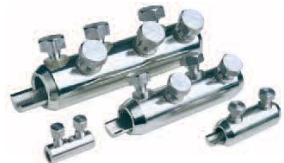
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Other jointing elements

Mechanical shear-bolt connectors

Joint kits can be selected to include a TE Connectivity BSM type mechanical shear-bolt connector to ensure a reliable pre-engineered electrical connection for different conductor types and materials.

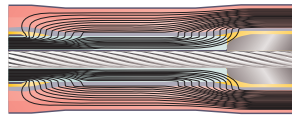
- range-taking sizes cover 25-400 mm² conductor cross-sections for aluminium and copper conductors
- pre-set shear torque provides safe and reliable installation
- removable half shell insert provide core centering
- tin-plated and greased contact surface for corrosion protection
- no need for compression tools or maintenance
- shorter length compared to compression connectors
- tested in accordance with IEC 61238
- excellent tensile performance due to special bolt tip design



Cordless impact wrench for simple and easy installation of mechanical connectors.

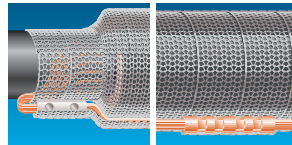
Electrical stress control

The stress control sleeves in combination with stress grading mastic at the screen cut provide a precisely defined impedance characteristic which smoothes the electrical field. For ease of installation, mechanical shear-bolt connectors are applied in combination with a stress control patch while joints with compression connectors use mastic tape for void filling and stress grading.



Shield continuity

With mechanical shear-bolt connectors as standard, typical shield wire cross sections up to 35mm² can easily be connected with the connector supplied in the kit. Positioned at the oversheath cut back, the connection provides a smooth profile and resists mechanical damage. There is no need for a crimping tool and its maintenance. Shear bolts provide the required contact force in order to ensure safe installation and reliable performance during load cycling in service as well as during short circuit conditions. An additional layer of copper mesh is applied around the joint to provide effective shielding and protection.



Joint kits for other connector technologies including deep indent and hexagonal compression are available.

Armouring

As some cable designs use a steel wire armour to provide a certain mechanical strength, joint designers have to provide the same performance. A steel wire armour wrap in combination with a heat-shrinkable sleeve or fibre reinforced wraparound are being used to fulfill the impact test requirements as requested e.g. in the CENELEC specification.



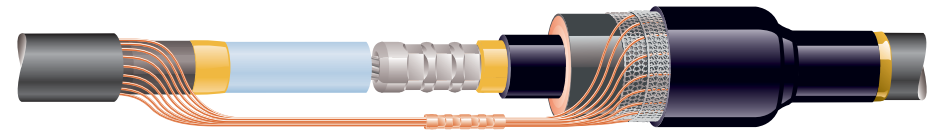
Robust outer sealing and protection

Modern cable laying techniques require a robust oversheath replacement capable of withstanding high mechanical stresses during conventional cable laying as well as mechanical impact occurring during the entire cable life. The thick-wall heat-shrinkable tubing is internally coated with a hot-melt adhesive to ensure an effective moisture seal and corrosion protection for the joint. When installed, the joints provide a level of protection and thickness equal to modern cables with PE oversheath. A space saving alternative using a fibre re-enforced wraparound sleeve coated with hot melt adhesive can be selected for installations in manholes and restricted joint bays.

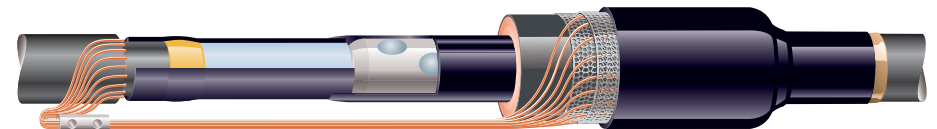


Product families for polymeric insulated cables

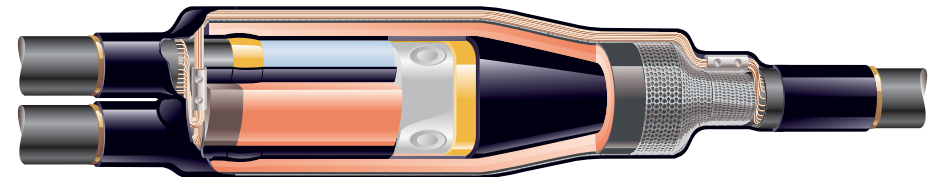
Raychem medium voltage joints **SXSU** up to 36 kV using compression connectors



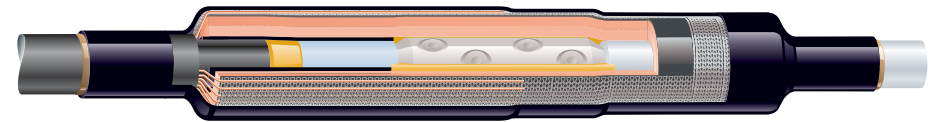
Raychem medium voltage joints **MXSU** up to 36 kV including mechanical connectors



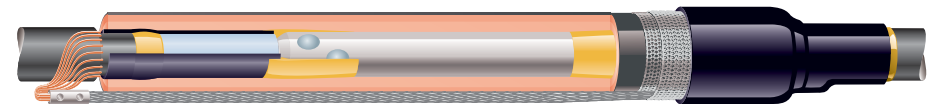
Raychem medium voltage branch joints **MXSB** up to 24 kV including mechanical connectors



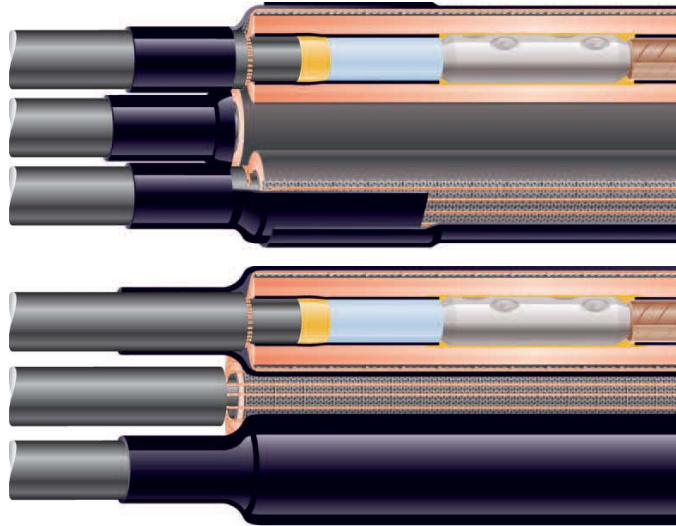
Raychem single core live end seals (stop end) **MXSE** up to 36 kV



Raychem medium voltage repair joints **MXSU-L** up to 24 kV including mechanical connectors



Raychem transition joints MXSU up to 24 kV including TE Connectivity BSM type mechanical shear bolt connectors

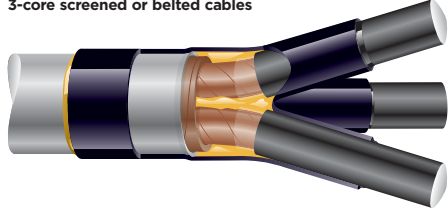


Raychem universal jointing system EPKJ-R to connect all common cable types using compression connectors

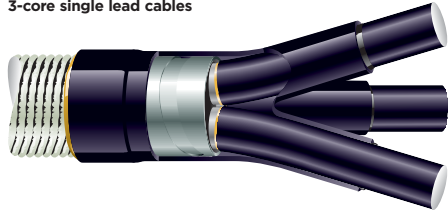
System technology

Few heat-shrinkable components like oil barrier sleeves, conductive breakouts etc. transfer paper cables into quasi polymeric type allowing the use of the same jointing sleeves.

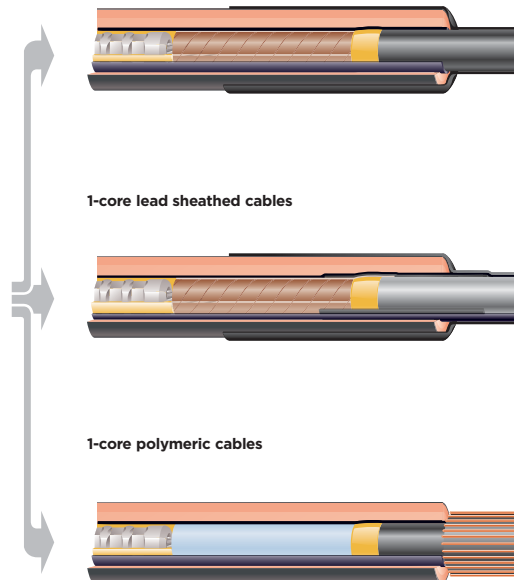
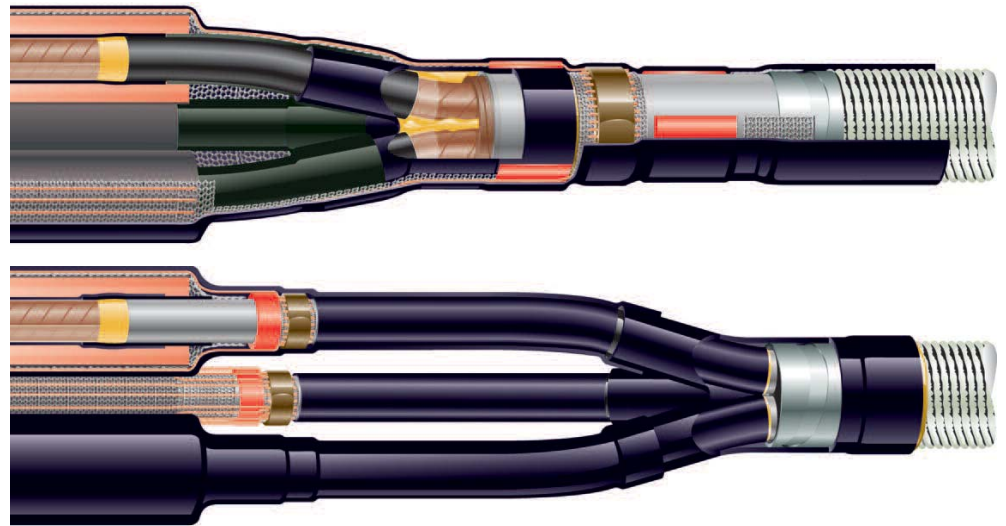
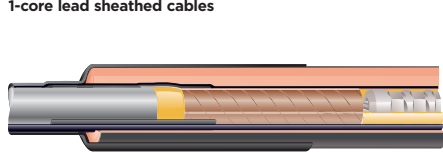
3-core screened or belted cables



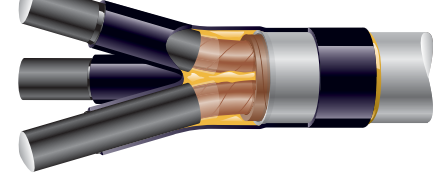
3-core single lead cables



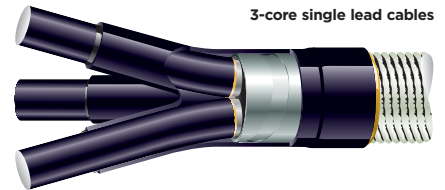
1-core lead sheathed cables



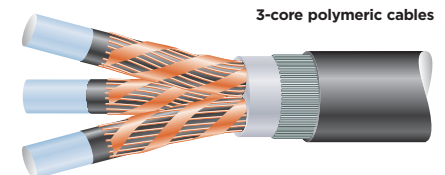
3-core screened or belted cables



3-core single lead cables



3-core polymeric cables





JOINTING SYSTEM (MXSU) - 36 kV

1-CORE JOINTING SYSTEM WITH MECHANICAL CONNECTORS

KEY FEATURES

- All inclusive kit
- Short and slim design
- Requires no crimping tool
- Meets HD 629

TE Connectivity's (TE) Raychem MXSU jointing system is based on a design using mechanical connectors for conductor and wire shields, which are also supplied with the kit.

MXSU kits are widely range taking, and cover most conductor constructions including their tolerances. No crimping tools or tool maintenance required

The short and space saving design for installation of the MXSU improves installation reliability. It also has an unlimited shelf life, simplified material logistics and reduced cost. TE's Raychem MXSU jointing system also avoids bulky waste and costly waste disposal.

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

ENERGY /// JOINTING SYSTEM MXSU - 36 kV

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Jointing System MXSU - 36 kV

Meets international performance standards including CENELEC HD 629 or IEC 60502-4 for joints.



PRODUCT SELECTION INFORMATION: DIMENSIONS IN mm

Description	Cross Section Range [mm ²]				Diameter Conductor	Diameter Over Core Insulation	Diameter Cable Over Sheath
	12 kV	17,5 kV	24 kV	36 kV			
MXSU-3111	25 - 95	-	-	-	5,2 - 12,0	13,2 - 21,8	23 - 32
MXSU-3121	70 - 150	-	-	-	8,7 - 15,0	17,6 - 24,3	25 - 38
MXSU-3131	95 - 240	-	-	-	10,3 - 19,2	17,6 - 29,4	26 - 40
MXSU-3132	150 - 300	-	-	-	12,9 - 21,6	21,6 - 30,4	29 - 43
MXSU-3141	240 - 400	-	-	-	17,8 - 24,6	25,7 - 32,6	33 - 47
MXSU-3151	500	-	-	-	25,5 - 27,6	33,8 - 37,2	44 - 50
MXSU-3161	630	-	-	-	29,0 - 32,5	37,5 - 40,0	47 - 54
MXSU-3171	800	-	-	-	32,0 - 33,8	39,5 - 42,6	52 - 57
MXSU-3181	1000	-	-	-	38,5 - 39,2	45,0 - 47,6	59 - 64
MXSU-4111	-	50 - 95	-	-	7,2 - 12,0	17,6 - 24,0	24 - 38
MXSU-4121	-	70 - 150	-	-	8,7 - 15,0	19,9 - 27,5	28 - 39
MXSU-4131	-	120 - 240	-	-	11,0 - 19,2	22,0 - 31,6	28 - 44
MXSU-4132	-	150 - 300	-	-	12,9 - 21,6	23,5 - 32,6	31 - 45
MXSU-4141	-	240 - 400	-	-	17,8 - 24,6	28,4 - 36,8	35 - 50
MXSU-4151	-	500	-	-	25,5 - 27,6	36,2 - 39,6	48 - 56
MXSU-5101	-	-	10 - 35	-	3,7 - 7,5	15,0 - 22,0	17 - 33
MXSU-5111	-	-	25 - 95	-	5,2 - 12,0	17,9 - 26,0	25 - 38
MXSU-5121	-	-	50 - 150	-	7,2 - 15,0	20,2 - 29,5	28 - 41
MXSU-5131	-	-	95 - 240	-	10,3 - 19,2	23,0 - 33,6	30 - 43
MXSU-5132	-	-	150 - 300	-	12,9 - 21,6	25,0 - 35,5	33 - 48
MXSU-5141	-	-	240 - 400	-	17,8 - 24,6	29,9 - 38,8	35 - 49
MXSU-5151	-	-	500	-	25,5 - 27,6	37,2 - 41,6	48 - 54
MXSU-5161	-	630	630	-	29,0 - 32,5	39,2 - 44,7	50 - 58
MXSU-5171	-	-	800	-	32,0 - 33,8	44,8 - 46,9	58 - 61
MXSU-5181	-	-	1000	-	38,5 - 39,2	49,4 - 53,2	64 - 67
MXSU-6111	-	-	-	35 - 95	6,0 - 12,0	24,0 - 30,0	32 - 43
MXSU-6121	-	-	-	70 - 150	8,7 - 15,0	26,2 - 34,5	34 - 44
MXSU-6131	-	-	-	150 - 300	13,9 - 21,6	31,1 - 39,6	38 - 53
MXSU-6141	-	-	-	240 - 400	17,8 - 24,6	36,2 - 42,8	40 - 54
MXSU-6151	-	-	-	500	25,5 - 29,2	40,1 - 46,6	52 - 60
MXSU-6161	-	-	-	630	29,0 - 32,5	45,8 - 50,5	55 - 68
MXSU-6171	-	-	-	800	32,0 - 33,8	50,1 - 53,4	62 - 66
MXSU-6181	-	-	-	1000	38,5 - 39,2	55,7 - 58,8	69 - 73

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ENERGY /// JOINTING SYSTEM MXSU - 36 kV

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