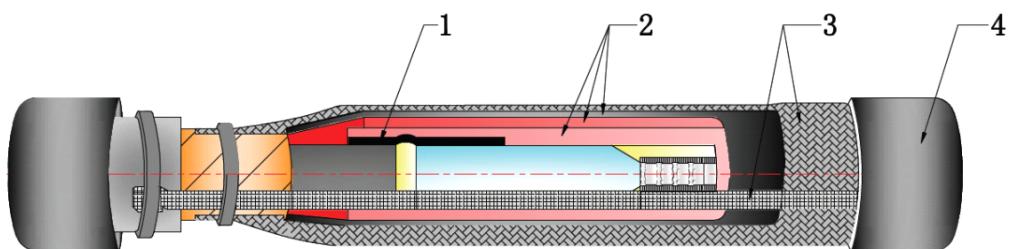


## RSJY

# Heat Shrink Joints For MV Cables Up To 42kV

### Design of Joint

The joints are designed for MV screened, 1-core polymeric insulated cables with or without armour. The same design principles are used for 3-core cables.



#### 1. Electrical stress control

Stress control tube, together with stress relief mastic, is used to smooth out the electrical field at the cable screen ends.

#### 2. Insulation and screen

Heat shrink insulation tube delivers consistent insulation thickness to meet or exceed that of the cable.

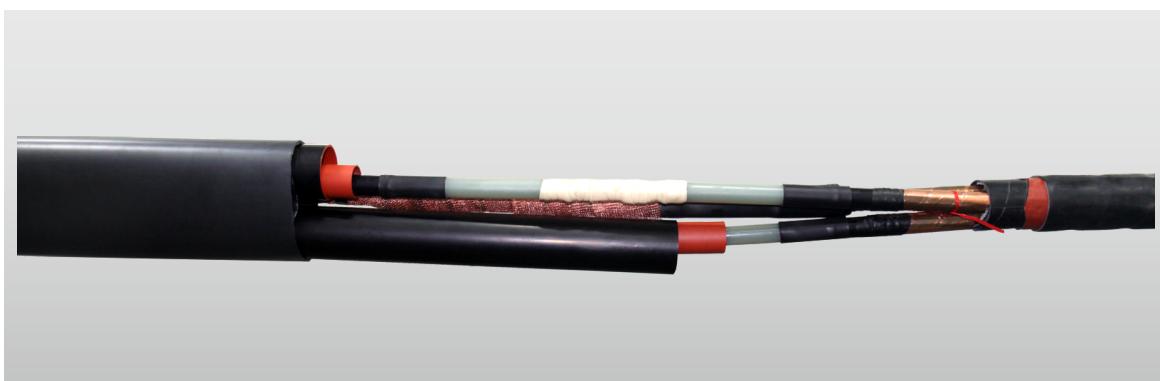
Heat shrink semi-conductive /insulation dual layer tube is also adopted to help ensure a void-free interface between the insulation and screen.

#### 3. Metallic shielding

Copper mesh wrapped around the joint area rebuilds the metallic screen. Either soldering or solderless earth connection is available to provide screen continuity across the joint.

#### 4. Outer sealing and protection

The outer sealing and protection is performed by an adhesive coated heat shrink tube. It provides mechanical protection and chemical resistance as expected from cable oversheath.

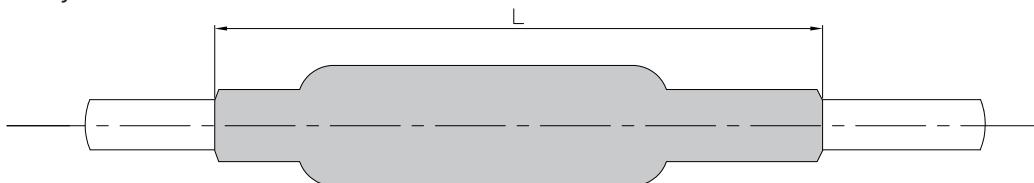


# RSJY-1

## Straight joint for screened, 1-core polymeric insulated cables 6kV, 10kV, 20kV, 30kV and 35kV

The joint is designed for screened single core polymeric insulated MV cables up to 35kV.

Stress control tube, together with stress relief mastic, is used to smooth out the electrical field at the cable screen ends. Heat shrink insulation tube delivers consistent insulation thickness over the core insulation. Heat shrink dual layer tube is adopted to help ensure a void-free interface between the insulation and screen. Copper mesh wrapped around the joint area rebuilds the metallic screen. Either soldering or solderless earth connection is available to provide screen continuity across the joint. The outer sealing and protection is performed by an adhesive coated heat shrink tube.



### Selection Table

Nominal voltage $U_0/U(U_m)$	Cross section (mm <sup>2</sup> )	Kit No.	L Dimensions(mm)
3.6 / 6(7.2)kV	50-120	6kVRSJY-1/1	1000
	150-240	6kVRSJY-1/2	1000
	300-400	6kVRSJY-1/3	1000
	500	6kVRSJY-1/4	1000
6 / 10(12)kV 6.35 / 11(12)kV	50-95	10kVRSJY-1/1	1000
	120-185	10kVRSJY-1/2	1000
	240-300	10kVRSJY-1/3	1000
	400-500	10kVRSJY-1/4	1000
	630	10kVRSJY-1/5	1000
8.7 / 15(17.5)kV	25-50	10kVRSJY-1/1	1000
	70-120	10kVRSJY-1/2	1000
	150-240	10kVRSJY-1/3	1000
	300-400	10kVRSJY-1/4	1000
	500-630	10kVRSJY-1/5	1000
12 / 20(24)kV 12.7 / 22(24)kV	35-50	20kVRSJY-1/1	1000
	70-120	20kVRSJY-1/2	1000
	150-240	20kVRSJY-1/3	1000
	300-400	20kVRSJY-1/4	1200
	500-630	20kVRSJY-1/5	1200
	800-1000	20kVRSJY-1/6	1200
	1200	20kVRSJY-1/7	1200
18 / 30(36)kV 19 / 33(36)kV	35-50	30kVRSJY-1/1	1400
	70-120	30kVRSJY-1/2	1400
	150-240	30kVRSJY-1/3	1400
	300-400	30kVRSJY-1/4	1400
	500-630	30kVRSJY-1/5	1400
	800-1000	30kVRSJY-1/6	1400
	1200	30kVRSJY-1/7	1400
20.8 / 36(42)kV 26 / 35(42)kV	50	35kVRSJY-1/1	1400
	70-120	35kVRSJY-1/2	1400
	150-240	35kVRSJY-1/3	1400
	300-400	35kVRSJY-1/4	1500
	500-630	35kVRSJY-1/5	1500
	800-1000	35kVRSJY-1/6	1500
	1200	35kVRSJY-1/7	1500

#### Note:

1. Connectors need to be ordered separately.
2. RSJY-1 is for cables with copper wire screen without armour.
3. For cables with other construction, please order kits separately.

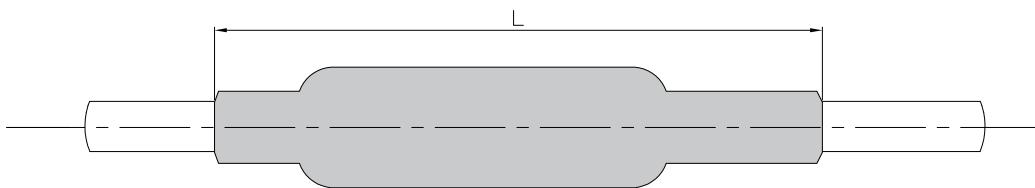
Remark: Above cross-section range selection is for reference, the final determination factor is the diameter over insulation

## RSJY-3

# Straight joint for screened, 3-core polymeric insulated cables 6kV, 10kV, 20kV, 30kV and 35kV

The joint is designed for screened three core polymeric insulated MV cables up to 35kV.

Stress control tube, together with stress relief mastic, is used to smooth out the electrical field at the cable screen ends. Heat shrink insulation tube delivers consistent insulation thickness over the core insulation. Heat shrink dual layer tube is adopted to help ensure a void-free interface between the insulation and screen. Copper mesh wrapped around the joint area rebuilds the metallic screen. Either soldering or solderless earth connection is available to provide screen continuity across the joint. The outer sealing and protection is performed by an adhesive coated heat shrink tube.



### Selection Table

Nominal voltage $U_0/U(U_m)$	Cross section (mm <sup>2</sup> )	Kit No.	L Dimensions(mm)
3.6 / 6(7.2)kV	50-120	6kVRSJY-3/1	1800
	150-240	6kVRSJY-3/2	1800
	300-400	6kVRSJY-3/3	1800
	500	6kVRSJY-3/4	1800
6 / 10(12)kV 6.35 / 11(12)kV	50-95	10kVRSJY-3/1	1800
	120-185	10kVRSJY-3/2	1800
	240-300	10kVRSJY-3/3	1800
	400-500	10kVRSJY-3/4	1800
	630	10kVRSJY-3/5	1800
8.7 / 15(17.5)kV	25-50	10kVRSJY-3/1	1800
	70-120	10kVRSJY-3/2	1800
	150-240	10kVRSJY-3/3	1800
	300-400	10kVRSJY-3/4	1800
	500-630	10kVRSJY-3/5	1800
12 / 20(24)kV 12.7 / 22(24)kV	35-50	20kVRSJY-3/1	1800
	70-120	20kVRSJY-3/2	1800
	150-240	20kVRSJY-3/3	1800
	300-400	20kVRSJY-3/4	2600
	500-630	20kVRSJY-3/5	2600
18 / 30(36)kV 19 / 33(36)kV	35-50	30kVRSJY-3/1	2700
	70-120	30kVRSJY-3/2	2700
	150-240	30kVRSJY-3/3	2700
	300-400	30kVRSJY-3/4	2700
	500-630	30kVRSJY-3/5	2700
20.8 / 36(42)kV 26 / 35(42)kV	50	35kVRSJY-3/1	2700
	70-120	35kVRSJY-3/2	2700
	150-240	35kVRSJY-3/3	2700
	300-400	35kVRSJY-3/4	2800
	500-630	35kVRSJY-3/5	2800

#### Note:

1. Connectors need to be ordered separately.
2. RSJY-3 is for cables with copper wire screen without armour.
3. For cables with other construction, please order kits separately.

Remark: Above cross-section range selection is for reference, the final determination factor is the diameter over insulation