



NKT



High-Voltage
Cable Accessories

52 up to 550 kV

Pre-moulded one-piece joint with heat-shrink outer protection

Design

- The different versions of the pre-moulded one-piece joint are designed for 72.5 up to 245 kV.
- The complete KSME joint consists of a pre-moulded silicone joint body with an integrated stress control system and screw- or compression-type connector.
- The outer sheath is covered with a heat-shrink tube.



Application

Pre-moulded one-piece joint with heat-shrink outer protection for XLPE- and EPR-insulated cables with Al or Cu conductor.

Standards

- IEC 60840
- IEC 62067

Key characteristics

KSME

- Straight-through joint

KSME-E

- Straight-through joint with single-core cable for direct earthing

KSME-S

- Screen separation joint with coaxial cable

KSME-SE

- Screen separation joint with single-core cables

Note

Optional kits:

- Optical fibre kit

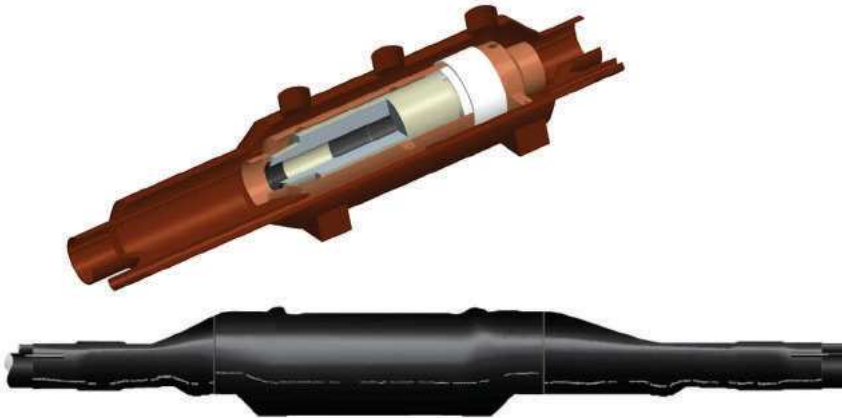
Tools:

- Push-on tools
- Fix points for push-on tools
- Belt strap tool

Technical details

Voltage	Type/ Designation	Max. cross section	Prepared cable insulation diameter	Max. oversheath diameter	Max. dimensions (length, diameter)	Weight (approx.)
kV		mm ²	mm	mm	mm	kg
72.5	KSME 72	1000	40.0 – 78.0	No limitation	1600 x 120	20
145	KSME 145	2500	41.6 – 120.0	No limitation	2350 x 240	35 – 70
170	KSME 170	2500	56.0 – 120.0	No limitation	2300 x 240	60 – 70
245	KSME 245	2500	56.0 – 120.0	No limitation	2300 x 240	60 – 70

Pre-moulded one-piece joint with housing outer protection



Design

- The different versions of the pre-moulded one-piece joint are designed for 72.5 up to 245 kV.
- The complete SME joint consists of a pre-moulded silicone joint body with an integrated stress control system and screw- or compression-type connector.
- The joint is protected by a metal or plastic housing or a combination of both.

Application

Pre-moulded one-piece joint with housing outer protection for XLPE- and EPR-insulated cables with Al or Cu conductor.

Standards

- IEC 60840
- IEC 62067

Key characteristics

- SME**
 - Straight-through joint
- SME-E**
 - Straight-through joint with single-core cable for direct earthing
- SME-S**
 - Screen separation joint with coaxial cable
- SME-SE**
 - Screen separation joint with single-core cables

Note

Optional kits:

- Optical fibre kit

Tools:

- Push-on tools
- Fix points for push-on tools
- Belt strap tool

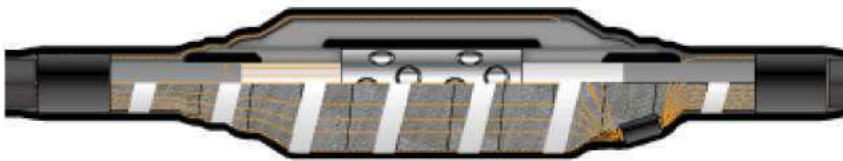
Technical details

Voltage	Type/ Designation	Max. cross section	Prepared cable insulation diameter	Max. overheat diameter	Max. dimensions- (length, diameter)	Weight (approx.)
kV		mm ²	mm	mm	mm	kg
72.5	KSME 72	1000	40.0 – 78.0	125	1710 x 370	240
145	KSME 145	2500	41.6 – 120.0	150	2350 x 460	240 – 290
170	KSME 170	2500	56.0 – 120.0	150	2300 x 370	240 – 290
245	KSME 245	2500	56.0 – 120.0	150	2300 x 370	240 – 290

Pre-moulded three-piece joint with heat-shrink outer protection

Design

- The different versions of the pre-moulded three-piece joint are designed for 145 up to 300 kV.
- The complete KSM joint consists of a pre-moulded silicone main joint body, two silicone adapters with an integrated stress control system and a screw- or compression-type connector.
- The outer sheath is covered with a heat-shrink tube.
- The joint is designed to connect two different cable dimensions.



Application

Pre-moulded three-piece joint with heat-shrink outer protection for XLPE- and EPR-insulated cables with Al or Cu conductor.

Standards

- IEC 60840
- IEC 62067

Key characteristics

- KSM**
 - Straight-through joint
- KSM-E**
 - Straight-through joint with single-core cable for direct earthing
- KSM-S**
 - Screen separation joint with coaxial cable
- KSM-SE**
 - Screen separation joint with single-core cables

Note

- Optional kits:**
 - Optical fibre kit
- Tools:**
 - Push-on tools

Technical details

Voltage	Type/ Designation	Max. cross section	Prepared cable insulation diameter	Max. overshooth diameter	Max. dimensions- (length, diameter)	Weight (approx.)
kV		mm ²	mm	mm	mm	kg
145	KSM 145	2500	34.5 – 108.0	118	2200 x 240	70 – 110
170	KSM 170	2500	50.0 – 108.0	118	2200 x 240	85 – 110
245	KSM 245	2500	50.0 – 108.0	118	2300 x 280	85 – 125
300	KSM 300	2500	56.0 – 108.0	118	2200 x 280	120

Pre-moulded three-piece joint with housing outer protection



Design

- The different versions of the pre-moulded three-piece joint are designed for 145 up to 550 kV.
- The complete SM joint consists of a pre-moulded silicone main joint body, two silicone adapters with an integrated stress control system and a screw- or compression-type connector.
- The joint is designed to connect two different cable dimensions.
- The cable joint has a metal and plastic housing as an outer protection.

Application

Pre-moulded three-piece joint with housing outer protection for XLPE- and EPR-insulated cables with Al or Cu conductor.

Standard

- IEC 60840
- IEC 62067

Specific for the product

- SM**
 - Straight-through joint
- SM-E**
 - Straight-through joint with single core cable for direct earthing
- SM-S**
 - Screen separation joint with coaxial cable
- SM-SE**
 - Screen separation joint with single core cables

Note

- Optional kits:**
- Optical fibre kit
 - PD-measuring kit

- Tools:**
- Push-on tools

Technical details

Voltage	Type/ Designation	Max. cross section	Prepared cable insulation diameter	Max. oversheath diameter	Max. dimensions (length, diameter)	Weight (approx.)
kV		mm ²	mm	mm	mm	kg
145	SM 145	2500	34.5 – 108.0	118	2105 x 421	130 – 150
170	SM 170	2500	50.0 – 108.0	118	2105 x 421	140 – 150
245	SM 245	2500	50.0 – 108.0	118	2105 x 473	140 – 200
300	SM 300	2500	81.5 – 108.0	118	2200 x 280	200
420	SM 420	3200	81.5 – 140.0	185	3620 x 715	850
550	SM 550	3200	97.0 – 140.0	185	3620 x 715	850

Screen separation kit

Design

- The SKKB can be fitted to already laid cable where the load condition has changed and losses need to be reduced.
- It also offers the possibility of optimising the cable system, since cross-bonding can be fitted at any position along the cable route.
- The SKKB is available for different cable dimensions and constructions and is designed to ensure easy installation and excellent sealing of the cable after the cable screen is connected.



Application

The SKKB is a screen separation kit for cross-bonding or earthing of cables up to 245 kV.

Specific to the product

SKKB-PAL

- Al laminate as a radial water barrier

SKKB-MET

- Metallic sheath with or without copper screen wires

SKKB-CUW

- Copper screen wires

Technical details

Cable outer sheath diameter mm	Designation	Max. length
mm	mm	mm ²
50 – 100	SKKB 10 - x	1200
100 – 150	SKKB 15 - x	1200