

145kV Cable joint

S145 Straight cable joint

145 Cross bonded cable joint

Application

Premolded cable joint for 12 kV or 145 kV PE insulated cables with copper conductor and metal type of cable screens*.

Standards

Designed to meet the requirements of international accepted standards, IEC 60840 and China standard GB/ T 11017.

Features

1. Joint body

The joint bodies have premolded one piece design, with a mold injected outer semi conductive shielding layer of 6mm thickness. The raw material, liquid silicone rubber (LSR), enables a more compact structure. Different joint body sizes are designed to fit cables with different cross section area, to ensure optimal interface pressure between joint bodies and cables, as well as the excellent electrical and insulation performance.

Straight joint and Insulated joint share the same joint body design.

2. Connector

Crimping connector**, available for copper conductor cables.

3. Shielding electrode

Different sized shielding electrodes ensures good fit with outer insulation diameters of different cables.

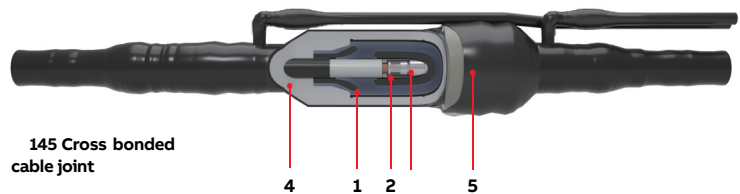
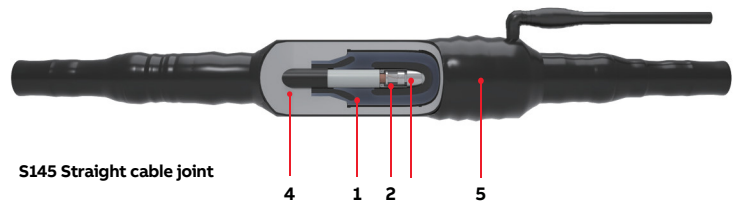
4. Filling material

The joint is filled with environmental friendly and flame retardant filling compounds, which have excellent insulation, thermal conductivity and flame retardant properties.

5. Outer water proof protection

Excellent water proof performance is guaranteed by a copper casing with premolded insulating coating (fiberglass casing is optional) filled with adhesive compound, and oversheathed by waterproof tapes and heat shrink tubes.

The outer protection is tested according to GB/ T 11017.



Main electrical properties:

Standard, IEC 60840, GB/ T 11017	Type test kV	Routine test*** kV
Highest voltage for equipment, m	145	145
Rated voltage,	12	12
Value of $U_{0.5}$ for determination of test voltage	76	76
Soaking cycle voltage test, 2 h	152/20cycles	/
Partial discharge test 5 pC, 1.5 h	114	114
Switching impulse voltage test	/ 650	/
AC voltage test, 2.5 h	120, (15mins)	120, (30mins)
Visual inspection	Preformed	Preformed

TE:

* Please contact ABB in case of aluminium conductor cable

** Please contact ABB, if bolt connectors are required

*** All joint bodies pass the routine test.

Technical specification

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High voltage test



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Size information:

Type	Dimensions(mm)	
S 145	1800	240
145	1800	270

Cable range applicable:

Cable type*	126 kV	145 kV
PE (mm)	57 84	57 84
Conductor(mm ²)	240 1200	240 1200
Insulation sheath (mm)	Ma 120	Ma 120

* Please contact ABB for 66 kV PE cables.

Storage:

When stored in original, unopened status at normal and dry conditions:

The joint body has a shelf life of five years from the date of manufacture

Tape and grease have a shelf life of three years

Filling compound has a shelf life of one year from the date of manufacture

Metal parts have no shelf life limit

Packaging information:

Type	Weight(kg)	Dimensions(mm)
S 145	100	1 000 600 500*
145	110	1 000 600 500*

* For further information, please contact ABB.

Installation space requirements:

Installation	Dimensions(mm)
S 145	Min 500
145	Min 500