



# HCSSJ Cold Shrink Joint

For XLPE or EPR insulated, 1 or 3 cores cables up to 40.5kV with Al or Cu conductor



### Shelf life & storage:

HCSSJ Cold Shrink Joint has long shelf life when stored in a humidity controlled storage (-10°C to 40°C and <75% relative humidity).

### Features:

- Safety  
Without using torches or any auxiliary tools.
- Stability  
Cold-shrink joint is designed with geometric stress cone on both sides and Faraday Cage in the middle so that stress cone and insulator always keep the active pressure and steady long-term operation to cable.
- Easy installation  
Pull out the plastic string from silicon rubber parts, the silicon rubber will tightly shrink on the need position, which will reduce installation defects.
- Material performance(LSR)  
Excellent performance in anti-flouring, ageing resistance, hydrophobicity, hydrophobicity transference and cold resistance.
- Wide usage  
Applying to cold area, humid area, salt mist area and seriously polluted area.  
Special outer sheaths are available on request, such as heat shrink tubing, cast resin, armoring tape, etc.
- Small size  
Smallish cold-shrink joint can minimize stripping distance effectively.

### Key technical performances:

| Standard                                      | IEC 60502                    |                              |                               |                               |                               |
|---|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|
|   | 6/10(12)kV                   | 8.7/15(17.5)kV               | 12/20(24)kV                   | 18/30(36)kV                   | 26/35(40.5)kV                 |
| Partial discharge test at ambient temperature | 10kV, <10pC                  | 15kV, <10pC                  | 20kV, <10pC                   | 30kV, <10pC                   | 45kV, <10pC                   |
| AC withstand voltage test                     | 27kV 5min                    | 39kV 5min                    | 54kV 5min                     | 81kV 5min                     | 117kV 5min                    |
| Impulse voltage withstand                     | ±75kV each polarity 10 times | ±95kV each polarity 10 times | ±125kV each polarity 10 times | ±170kV each polarity 10 times | ±200kV each polarity 10 times |

### Selection table:

| 6/10(12)kV      |                        |   |
|-----------------|------------------------|---|
| Joint           | Cable InsulationOD(mm) | Cable Conductor Cross-section(mm <sup>2</sup> ) |
| 1x1 core        |                        |   |
| HCSSJ-12-7095-1 | 16.5mm-19.7mm          | 70mm <sup>2</sup> --95mm <sup>2</sup>           |
| HCSSJ-12-1215-1 | 19.7mm-23.5mm          | 120mm <sup>2</sup> --150mm <sup>2</sup>         |
| HCSSJ-12-1830-1 | 22.5mm-31.3mm          | 185mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-12-4063-1 | 28.9mm-38.0mm          | 400mm <sup>2</sup> --630mm <sup>2</sup>         |
| 1x3 cores       |                        |   |
| HCSSJ-12-7095   | 16.5mm-19.7mm          | 70mm <sup>2</sup> --95mm <sup>2</sup>           |
| HCSSJ-12-1215   | 19.7mm-23.5mm          | 120mm <sup>2</sup> --150mm <sup>2</sup>         |
| HCSSJ-12-1830   | 22.5mm-31.3mm          | 185mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-12-4063   | 28.9mm-38.0mm          | 400mm <sup>2</sup> --630mm <sup>2</sup>         |

| 8.7/15(17.5)kV    |                        |   |
|-------------------|------------------------|---|
| Joint             | Cable InsulationOD(mm) | Cable Conductor Cross-section(mm <sup>2</sup> ) |
| 1x1 core          |                        |   |
| HCSSJ-17.5-2550-1 | 16.5mm-19.7mm          | 25mm <sup>2</sup> --50mm <sup>2</sup>           |
| HCSSJ-17.5-7012-1 | 19.7mm-23.5mm          | 70mm <sup>2</sup> --120mm <sup>2</sup>          |
| HCSSJ-17.5-1530-1 | 22.5mm-31.3mm          | 150mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-17.5-4050-1 | 28.9mm-38.0mm          | 400mm <sup>2</sup> --500mm <sup>2</sup>         |
| HCSSJ-17.5-630-1  | 38.0mm-44.1mm          | 630mm <sup>2</sup>                              |
| 1x3 cores         |                        |   |
| HCSSJ-17.5-2550   | 16.5mm-19.7mm          | 25mm <sup>2</sup> --50mm <sup>2</sup>           |
| HCSSJ-17.5-7012   | 19.7mm-23.5mm          | 70mm <sup>2</sup> --120mm <sup>2</sup>          |
| HCSSJ-17.5-1530   | 22.5mm-31.3mm          | 150mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-17.5-4050   | 28.9mm-38.0mm          | 400mm <sup>2</sup> --500mm <sup>2</sup>         |
| HCSSJ-17.5-630    | 38.0mm-44.1mm          | 630mm <sup>2</sup>                              |

| 12/20(24)kV     |                        |   |
|-----------------|------------------------|---|
| Joint           | Cable InsulationOD(mm) | Cable Conductor Cross-section(mm <sup>2</sup> ) |
| 1x1 core        |                        |   |
| HCSSJ-24-3550-1 | 19.7mm-23.5mm          | 35mm <sup>2</sup> --50mm <sup>2</sup>           |
| HCSSJ-24-7015-1 | 22.5mm-31.3mm          | 70mm <sup>2</sup> --150mm <sup>2</sup>          |
| HCSSJ-24-1840-1 | 28.9mm-38.0mm          | 185mm <sup>2</sup> --400mm <sup>2</sup>         |
| HCSSJ-24-5063-1 | 38.0mm-44.1mm          | 500mm <sup>2</sup> --630mm <sup>2</sup>         |
| 1x3 cores       |                        |   |
| HCSSJ-24-3550   | 19.7mm-23.5mm          | 35mm <sup>2</sup> --50mm <sup>2</sup>           |
| HCSSJ-24-7015   | 22.5mm-31.3mm          | 70mm <sup>2</sup> --150mm <sup>2</sup>          |
| HCSSJ-24-1840   | 28.9mm-38.0mm          | 185mm <sup>2</sup> --400mm <sup>2</sup>         |
| HCSSJ-24-5063   | 38.0mm-44.1mm          | 500mm <sup>2</sup> --630mm <sup>2</sup>         |

| 18/30(36)kV     |                        |   |
|-----------------|------------------------|---|
| Joint           | Cable InsulationOD(mm) | Cable Conductor Cross-section(mm <sup>2</sup> ) |
| 1x1 core        |                        |   |
| HCSSJ-36-5015-1 | 25.9mm-33.9mm          | 50mm <sup>2</sup> --150mm <sup>2</sup>          |
| HCSSJ-36-1830-1 | 33.7mm-41.3mm          | 185mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-36-4050-1 | 41.3mm-47.0mm          | 400mm <sup>2</sup> --500mm <sup>2</sup>         |
| HCSSJ-36-630-1  | 47.0mm-53.5mm          | 630mm <sup>2</sup>                              |
| 1x3 cores       |                        |   |
| HCSSJ-36-5015   | 25.9mm-33.9mm          | 50mm <sup>2</sup> --150mm <sup>2</sup>          |
| HCSSJ-36-1830   | 33.7mm-41.3mm          | 185mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-36-4050   | 41.3mm-47.0mm          | 400mm <sup>2</sup> --500mm <sup>2</sup>         |
| HCSSJ-36-630    | 47.0mm-53.5mm          | 630mm <sup>2</sup>                              |

| 26/35(40.5)kV     |                        |   |
|-------------------|------------------------|---|
| Joint             | Cable InsulationOD(mm) | Cable Conductor Cross-section(mm <sup>2</sup> ) |
| 1x1 core          |                        |   |
| HCSSJ-40.5-5015-1 | 33.7mm-41.6mm          | 50mm <sup>2</sup> --150mm <sup>2</sup>          |
| HCSSJ-40.5-1830-1 | 41.3mm-47.0mm          | 185mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-40.5-4063-1 | 47.0mm-53.5mm          | 400mm <sup>2</sup> --630mm <sup>2</sup>         |
| 1x3 cores         |                        |   |
| HCSSJ-40.5-5015   | 33.7mm-41.6mm          | 50mm <sup>2</sup> --150mm <sup>2</sup>          |
| HCSSJ-40.5-1830   | 41.3mm-47.0mm          | 185mm <sup>2</sup> --300mm <sup>2</sup>         |
| HCSSJ-40.5-4063   | 47.0mm-53.5mm          | 400mm <sup>2</sup> --630mm <sup>2</sup>         |

\*NOTE: 1. Cable insulation outer diameter is one of the prerequisite for cable accessories selection.  
2. Above product selection is according to the IEC standard cable.  
3. Above product outer sheath is complete with heat shrinkable tubing.

HKIT/HKOT  
Heat Shrink  
Termination

HKSJ  
Heat Shrink  
Joint

HAT/HATA  
Medium  
Voltage Tubing

HAS/HMB/HMR  
Moulded Parts

HLVT/HLVJ  
Heat Shrink  
Termination & Joint

HRSL  
Heat Shrink  
Cable Repair Sleeve

HCSIT/HCSOT  
Cold Shrink  
Termination

HCSSJ  
Cold Shrink Joint

HPMC/HPMRC  
Cable Connector

HCSTT  
Cold Shrink  
Trifurcation Kit

HCST  
Cold Shrink  
Insulated Tubing

HCMB  
Cold Shrink 3  
Cores Cable  
Breakout

HCRC-S  
Cast Resin  
Straight  
Through Joint

HCRC-B  
Cast Resin  
Branch Joint