



Heatshrink - Transition Joints

Single Core / Three Core

Three Core To Single Core

Application

SUCOFIT SMSJ SERIES
3.6/6 (7.2)kV TO 19/33 (36)kV

Heatshrinkable Joints offer advanced technical superiority for jointing of today's medium voltage cables. Utilising state of the art polymer manufacturing technology, Medium Voltage products provide elevated protection against discharge and dielectric stress.

Joints exhibit the ability to effectively function under stringent operating conditions. They are designed, manufactured and tested according to the requirements of the local and internationally accepted standards of SABS, NRS, CENELEC, VDE, BS, IEC and IEEE. These products not only offer advanced technical solutions, but are designed for user friendly installation methods for the installation technician. The tested and proven heatshrinkable method is secure and environmentally friendly. Medium Voltage Joints are easily adaptable to cover a broad range of cable sizes.

Quality assurance has always played a major role in the development of Joints. In the case of Medium Voltage materials, this remains a high priority and is indeed important. The Tank accreditation to the SABS ISO 9001 quality assurance standard, enhances the quality of our materials and the security and integrity of the system.

Features

- Excellent electrical, thermal and mechanical performance
- Stress control
- Superior sealing capability
- Impact resistant
- Unlimited shelf life
- Low inventory



TANK MEDIUM VOLTAGE SYSTEM UP TO 36kV ORDERING INFORMATION

| | | |
|--------------------------|--------------------------|--------------------------|
| 3 CORE TRANSITION | Rating: 12kV | |
| | Part N°: | Range: |
| | SJTA 21A31 | 16 - 35mm ² |
| | SJTA 22A31 | 50 - 95mm ² |
| | SJTA 23R31 | 120 - 185mm ² |
| | SJTA 24R31 | 240 - 300mm ² |
| | Rating: 24kV | |
| | Part N°: | Range: |
| | SJTA 41A31 | 25 - 50mm ² |
| | SJTA 42R31 | 70 - 150mm ² |
| | SJTA 43A31 | 185 - 240mm ² |
| | Rating: 36kV | |
| | Part N°: | Range: |
| | SJTA 51A31 | 50 - 70mm ² |
| | SJTA 52A31 | 95 - 150mm ² |
| SJTA 53A31 | 185 - 240mm ² | |

| | | |
|--------------------------|---------------------|--------------------------|
| 1 CORE TRANSITION | Rating: 12kV | |
| | Part N°: | Range: |
| | SJTU 21A10 | 400 - 630mm ² |
| | | |
| | Rating: 24kV | |
| | Part N°: | Range: |
| | SJTU 41A10 | 150 - 300mm ² |
| | SJTU 42R10 | 400 - 630mm ² |
| | | |
| | Rating: 36kV | |
| | Part N°: | Range: |
| | SJTU 51A10 | 150 - 240mm ² |
| | SJTU 52A10 | 300 - 630mm ² |
| | | |

| | | |
|------------------------------------|--------------------------|--------------------------|
| 3 CORE TO 1 CORE TRANSITION | Rating: 12kV | |
| | Part N°: | Range: |
| | SJTX 21A31-10 | 16 - 35mm ² |
| | SJTX 22A31-10 | 50 - 95mm ² |
| | SJTX 23A31-10 | 120 - 185mm ² |
| | SJTX 24A31-10 | 240 - 300mm ² |
| | Rating: 24kV | |
| | Part N°: | Range: |
| | SJTX 41A31-10 | 25 - 70mm ² |
| | SJTX 42A31-10 | 95 - 150mm ² |
| | SJTX 43A31-10 | 185 - 300mm ² |
| | Rating: 36kV | |
| | Part N°: | Range: |
| | SJTX 51A31-10 | 50 - 70mm ² |
| | SJTX 52A31-10 | 95 - 150mm ² |
| SJTX 53A31-10 | 185 - 240mm ² | |
| Single Ledged | | |
| SJX 52SL31-10 | 120 - 240mm ² | |

Minimum Performance for TANK Transition Joints

| TEST SEQUENCE | | HIGHEST VOLTAGE FOR EQUIPMENT Um (kV) | | | RESULTS |
|-----------------------------|---|---------------------------------------|-----|------|---------------------------|
| | | 12 | 24 | 36 | |
| | | TEST VOLTAGE (kV) | | | |
| AC Voltage withstand | 1 min | 25.5 | 51 | 76 | No flashover or breakdown |
| Partial Discharge | 1 min | 11 | 22 | 33 | < 1 pc |
| Impact Test (Armoured only) | Before: 5 x 10 ⁵ MΩ After: 9 x 10 ⁵ MΩ | - | - | - | Complied |
| Impulse Voltage withstand | 10 positive impulses 10 negative impulses | 95 | 125 | 194 | No flashover or breakdown |
| DC Voltage withstand | 15 mins | 38 | 76 | 114 | No flashover or breakdown |
| Thermal Cycles Under Water | 60 cycles | 9.5 | 32 | 47.5 | No flashover or breakdown |

NOTES: 1. Um is the maximum phase to phase Voltage. 2. Test Voltages are stated as phase to ground values.

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