POWER division

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 - 35mm²
SJTA 22A31	50 - 95mm²
SJTA 23R31	120 - 185mm²
SJTA 24R31	240 - 300mm²
Rating: 24kV	
Part N°:	**Range:**
SJTA 41A31	25 - 50mm²
SJTA 42R31	70 - 150mm²
SJTA 43A31	185 - 240mm²
Rating: 36kV	
Part N°:	**Range:**
SJTA 51A31	50 - 70mm²
SJTA 52A31	95 - 150mm²
SJTA 53A31	185 - 240mm²

1 CORE TRANSITION

Rating: 12kV	
Part N°:	**Range:**
SJTU 21A10	400 - 630mm²
Rating: 24kV	
Part N°:	**Range:**
SJTU 41A10	150 - 300mm²
SJTU 42R10	400 - 630mm²
Rating: 36kV	
Part N°:	**Range:**
SJTU 51A10	150 - 240mm²
SJTU 52A10	300 - 630mm²

3 CORE TO 1 CORE TRANSITION

Rating: 12kV	
Part N°:	**Range:**
SJTX 21A31-10	16 - 35mm²
SJTX 22A31-10	50 - 95mm²
SJTX 23A31-10	120 - 185mm²
SJTX 24A31-10	240 - 300mm²
Rating: 24kV	
Part N°:	**Range:**
SJTX 41A31-10	25 - 70mm²
SJTX 42A31-10	95 - 150mm²
SJTX 43A31-10	185 - 300mm²
Rating: 36kV	
Part N°:	**Range:**
SJTX 51A31-10	50 - 70mm²
SJTX 52A31-10	95 - 150mm²
SJTX 53A31-10	185 - 240mm²
Single Leaded	
SJX 52SL31-10	120 - 240mm²

Minimum Performance for TANK Transition Joints

TEST SEQUENCE		HIGHEST VOLTAGE FOR EQUIPMENT Um (kV) 12 24 36 *TEST VOLTAGE (kV)*			RESULTS
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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