



Guaranteed Technical Particulars

3M Heat Shrink Straight Through Joint For 6.6 kV (UE) / 11kV (E), 1 or 3 Core, Al./Cu. Conductor, XLPE Insulated, Screened, Armoured/Unarmoured cable.

Type:- '3MHS' Straight Through Joint

Sr. No.	Particulars	Unit	Guaranteed Values
1	Manufacturer Name & Address		3M Electro and Communication India Pvt Ltd. Pimpri Pune-411018 (India)
2	Trade name		3M
3	Applicable Standards		IS:13573-II-2011, IEC 60502-4
4	For the nominal (phase to phase) System Voltages (U)	kV	11 kV
5	A.C. withstand voltage dry (ph/ground), 5 mins.	kV	28.5 kV
6	Partial Discharge	pC	< 10 pC @ 11 kV
7	Impulse Withstand 1.2/50/μs (10 +ve, 10-ve)	kVp	75 kVp
8	Load Cycle Test		
	a) Temperature of conductor during heating cycle	°C	For XLPE cable 95°C-100°C
	b) Duration of heating after steady state temperature	Hrs.	2
	c) Total duration of cycle	Hrs.	8
	d) Duration of cooling	Hrs.	3
	d) Number of Cycles		
	In Air		30 Cycles
	Under Water		30 Cycles
	e) Continuous phase to ground Voltage Withstand	kV	16
9	Thermal Short circuit current Withstand 1Sec. (Is)	kA	As per cable conductor size/material.
10	Dynamic short circuit withstand	kAp	2.55 x Is As per IS:13573-II-2011
11	Material of the tubing/moulded parts		Polyolefin based
12	Method of stress control		High Permittivity.
13	Method of environmental seal		Sealing Mastic and heat shrink tubes.
14	Allowable Kit storage Temperature	°C	Indoor, Ambient Temperature (50°C Max.)
15	Type of Connector		Crimping/Mechanical
16	Material of Connector		a) For Crimping type:- Same as cable conductor material b) For mechanical type: - Al. or Cu. alloys according to connector manufacturers technology.
17	Shelf life of H.S. components.	Years	5 Years
18	Installation instructions	Yes/No	Yes

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