



Guaranteed Technical Particulars

3M Heat Shrink Indoor Termination For 33 kV (E), 1 or 3 Core, Al./Cu. Conductor, XLPE Insulated, Screened, Armoured/Unarmoured cable.

Type:- '3MHI' Indoor Termination

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	33 kV
5	A.C. withstand voltage dry (ph/ground), 5 mins.	kV	85.5 kV
6	Partial Discharge	pC	< 10 pC @ 33 kV
7	Impulse Withstand 1.2/50/μs (10 +ve, 10-ve)	kVp	170 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
	e) Number of Cycles	In Air	60 Cycles
	f) Continuous phase to ground Voltage Withstand	kV	47.5
9	Thermal Short circuit current Withstand 1Sec. (Is)	kA	As per cable conductor size/material.
10	Dynamic short circuit withstand	kA Peak	2.55 x Is As per IS:13573-II-2011
11	Humidity Test (Conductivity of spraying water maintained between 70±10 mS/m throughout the test)	kV	300 hrs. at 24 kV
12	Material of the tubing/moulded parts		Polyolefin based
13	Method of stress control		High Permittivity.
14	Method of environmental seal		Sealing mastic and heat shrink breakout Boot/Tube for crutch sealing and lug sealing. Heat shrink tubes for core insulation.
15	Allowable Kit storage Temperature	°C	Indoor, Ambient Temperature (50°C Max.)
16	Type of Lug		Crimping / Mechanical
17	Material of lug		a) For Crimping type:- Same as cable conductor material b) For mechanical type:- Al. or Cu. alloys according to connector manufacturers technology.
18	Shelf life of H.S. components	Years	5 Years
19	Installation Instructions	Yes/No	Yes

33kV-STD- GTP-0015 / R3 / 26.02.2015