

Guaranteed Technical Particulars For 11KV, 3x120 Sq. mm. XLPE cable

Sl. No.	PARTICULARS	Size Unit	
1.	Manufacturer's name and address.		
2.	Location of factory.		
3.	Standard to which cable conform.		
4.	<u>CONDUCTOR DETAILS</u>		
a)	Material compositions class as per IS: 8130		
b)	Shape of stranded conductor.		
c)	Number of strands in each core (Min.)	No.	
d)	Diameter of each strand.	mm.	
e)	Nominal cross section area of each core	Sq.mm	
f)	Guaranteed weight of Alum. per Km. (Min.)	Kg/Km	973
5.	<u>CONDUCTOR SCREENING</u>		
a)	Material		
b)	Thickness (Min.)	mm.	
6.	<u>INSULATION</u>		
a)	Material with ref. of ISS		
b)	Thickness of insulation (Min.)	mm.	
7.	<u>INSULATION SCREENING</u>		
a)	Material Semi conducting part Metallic part		
b)	Thickness for; Semi conducting part (Min.) Metallic Part (Min.)	mm. mm.	
8.	<u>INNER SHEATH</u>		
a)	Material		
b)	Thickness (Min.)	mm.	
9.	Filler material.		
10.	<u>ARMOURING</u>		
a)	Material		
b)	Diamension of flat Armouring strip	mm x mm	
c)	Wt. of Zinc coating	Kg./Km.	
11.	<u>OUTER SHEATH</u>		
a)	Material		
b)	Thickness of sheath (min).	mm.	
c)	Colour		Yellow
12.	Weight of finished cable (Approx.)	Kg/Km.	
13.	Standard delivery length	Meter	
14.	Tolerance in stranded drum length of the cable.	%	
15.	Gross weight of drum including cable (Approx.)	Kg.	
16.	Recommended depth of laying	mm	
17.	Short circuit current for duration of short circuit of 1 sec.		
18.	Voltage drop per 1000 Mtr. length at rated		

	current..		
a)	When laid directly in ground.	Volt/Km	
b)	When laid directly in covered trenches.	Volt/Km	
c)	When laid directly in Air	Volt/Km	
19.	Impulse voltage withstand	KV	
20.	Derating factors under various conditions of installation:		
a)	D.C. Resistance per core at 20°C (Max.)	Ohm/Km.	
b)	A.C. Resistance per core at 20°C (Max).	Ohm/Km.	
c)	Reactance per core	Mho/Km.	
d)	Capacitance per core	Microf/Km	
e)	Insulation resistance at 27°C (Min).	M.Ohm/K m.	
f)	Volume resistivity of insulation at 27°C (Min).	Ohm/Km.	
21.	Maximum partial discharge magnitude at 1.5 U _o	PC	
22.	Maximum cable charging current at normal operating voltage.	Amp/Km.	
23.	Recommended minimum bending radius.	mm.	
24.	Name of manufacturers of bought out raw materials.		
i)	Aluminium		
ii)	PVC Compound		
iii)	XLPE Compound		
iv)	Galvanised steel strip for armouring.		
v)	Any other.		
25.(a)	Whether similar cable has been type tested	YES/NO	
(b)	If yes, when and where was it tested.		
(c)	It is expected that you will enclose an authenticated electrostat copy of type test report of similar design, size and type of cable. Please inform whether or not you have enclosed the same.	YES/NO	
(d)	If yes, how many sheets does it contain.	No. of sheets	
26.	Whether wood preservative shall be applied to whole drum?	YES/NO	
27.	Whether all ferrous parts shall be treated with rust preventive finish or coating.	YES/NO	
28.	Whether water proof paper layer shall be applied to the surface of drum and over the outer cable layer.	YES/NO	
29.	Reference of licence in use ISI and other certification marks, if any.		