

TEMPLANT POWER

240MM² - 12/20kV HIGH VOLTAGE CABLE

Data Sheet

1.0 Technical Description:

Cable Type: 1 x 240mm² 12/24kV (24)

- Flexible screened cable.
- Flexible lugged aluminium conductor.
- Extruded semi-conductive screen.
- Ethylene propylene rubber insulated.
- Chloro sulphonated polyethylene outer sheath.



1.1 Construction and dimensional details:

SI No.	Description	Particulars	Nominal Diameter in mm
1	Conductor		22.7 mm
	Conductor material	Aluminium	
	Shape	Bundled and stranded	
	Wire diameter	0.5 mm	
	Nominal section area of conductor	240 mm ²	
2	Extruded conductor screen		24.4 mm
	Material	Semi-conducting material	
	Nominal thickness	0.8 mm	
3	Insulation		35.4 mm
	Material	Ethylene propylene rubber	
	Type of material	E17 of HD 22.1	
	Nominal thickness	5.5 mm	
4	Extruded insulation screen		37.0 mm
	Material	Semi-conducting material	
	Nominal thickness	0.8 mm	
5	Cable core tape		37.6 mm
	Material	Semi-conductive tape	
	Number of layer x thickness	1 x 0.2 mm	
6	Wire screen		38.8 mm
	Material	Tinned copper	
	Shape	Wire	
	Nominal wire diameter	0.6 mm	
	Number of wires	89	
	Nominal cross sectional area of screen	25 mm ²	
7	Cable core tape		39.6 mm
	Material	Non woven binder tape	
	Number of layer x thickness	2 x 0.2mm	
8	Outer sheath		45.4 mm
	Material	Chloro sulphonated polyethylene	
	Type of material	EM7 of HD 22.1	
	Colour	Red	
	Nominal thickness	2.9 mm	
9	Weights (approx)		
	Cable weight	2535 kg/km	



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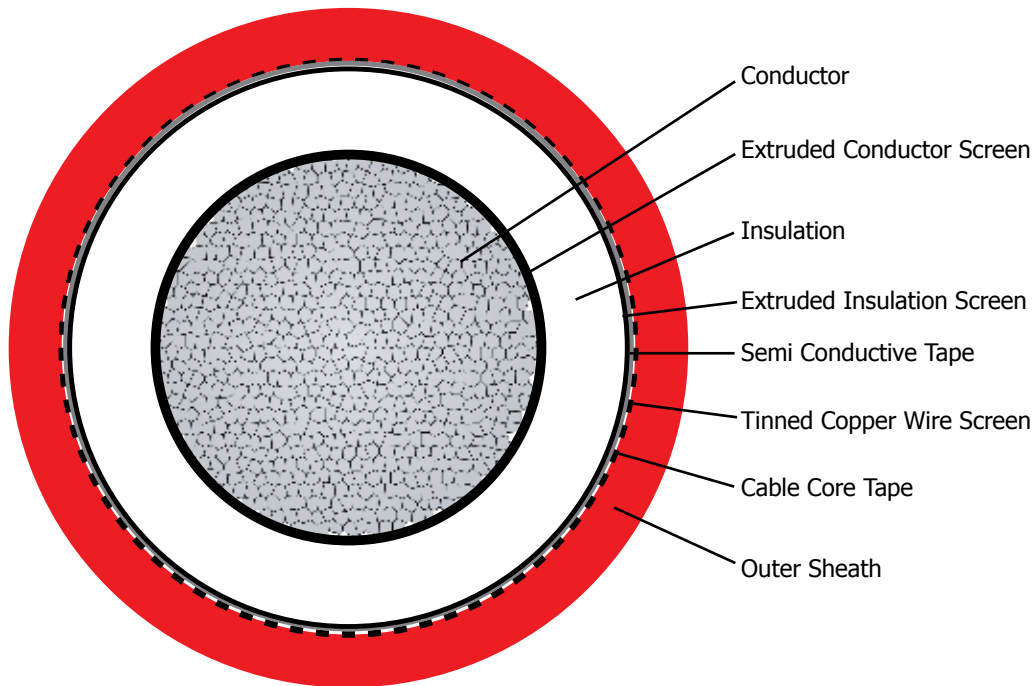


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1.1 Construction & Dimensional Details:

SI No.	Description	Particulars	Nominal Diameter in mm
10	Min Bending Radius During installation	450 mm	
11	Min bending radius continuous / installed	360 mm	
12	Max tensile strength	9600 Newton	
13	Relevant standards		
	Conductor	GEN. IEC60228 : 2005-03	
	Insulation	HD 22.1 2002-11	
	Sheath	HD 22.1 2002-11	
	Cable designation	GEN. IEC60502-2 : 2005-02	
	Flame retardants	IEC60332-3-24 2000-10	

2. Cross Sectional Drawing - Cable Type: 1 x 240mm² 12/20kV



3. Electrical Technical Data Sheet

Description	Particulars	Value
Maximum resistance of conductor		
DC resistance at 20°C (of conductor)	Ohm/km	0.134
Voltage drop* (single phase excluding neutral)	V / A / Km	0.173
Maximum continuous current rating (in air)		
Parallel in air at 30°C	Amp	566
Trefoil in air at 30°C	Amp	484
Maximum continuous current rating		
(buried at 600mm depth with a thermal resistivity of K.m /W)		
Parallel buried at 20°C	Amp	449
Trefoil buried at 20°C	Amp	423
Maximum short current for duration 1 second	Amp	22980
Maximum short circuit conductor temperature	°C	250
Maximum conductor operating temperature	°C	90

Laid parallel is calculated with a distance from cable axis to cable axis of $2 \times D$
(D is cable overall diameter)

*Note: Above values based on Cos Phi = 1.0

Qty	Length (meters)	Order Code
3	25 meters	CAB240/1/25/HV/SET
3	50 meters	CAB240/1/50/HV/SET

