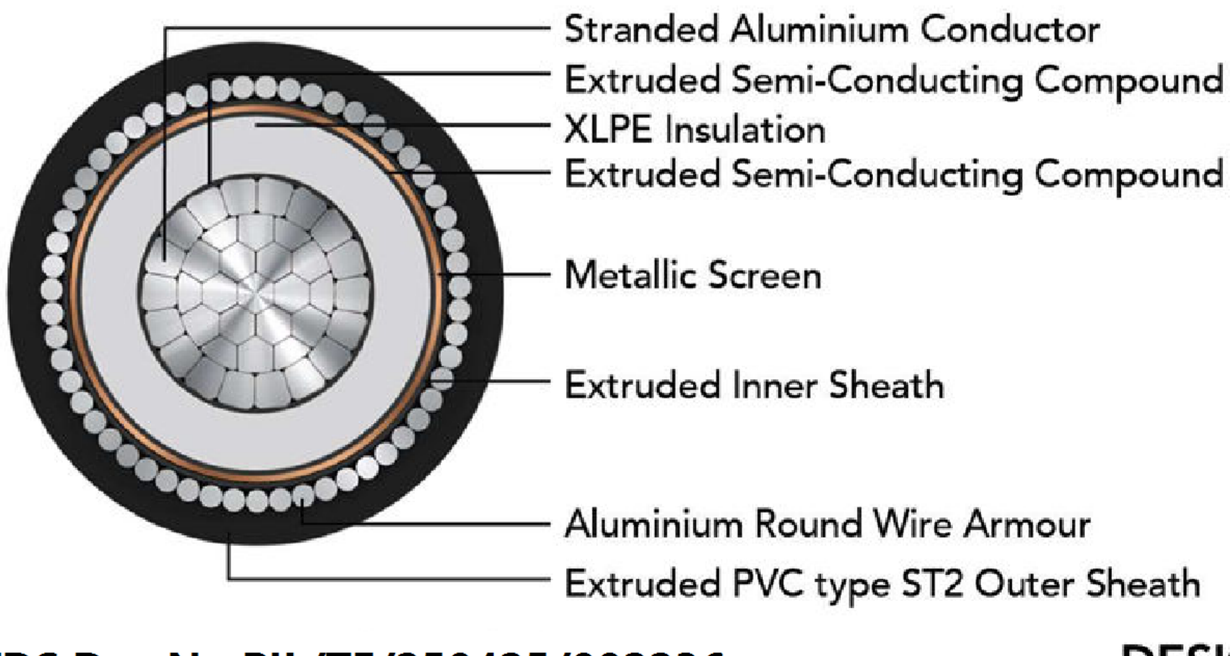
POLYCAB

CABLES





HT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002236

DESIGN CODE :MVIS12AXAWY2001C240SA001S

Particulars		1 Core X 240 Sqmm
Name of Manufacturer		Polycab India Ltd
Type of Cable		A2XWaY
Voltage Grade kV		12.7/22
No of cores X size in sqmm		1 X 240
a)	Maximum conductor temperature under normal operating conditions	90°C
b)	Maximum conductor temperature at the termination of short circuit	250°C
a)	Permissible Voltage Variation	± 10%
b)	Permissible Frequency Variation	± 5%
c)	Combined Voltage & Frequency variation	± 10%
Conductor		
a)	Material	H4 Grade Aluminium as per Class 2 of IS: 8130/2013, latest
b)	Maximum d.c. resistance of conductor at 20° C (ohm/km)	0.125
c)	Shape	Stranded Compacted Circular
Conductor Screening		
a)	Material	Extruded Semi-conducting Compound
b)	Nominal thickness (mm)	0.3
Insulation		
a)	Material	XLPE as per IS 7098(Pt-2)/2011
b)	Nominal thickness (mm)	6.0
c)	Core identification	Natural
Insulation Screening		
(i)	Non - Metallic	
a)	Material	Extruded Semi-conducting Compound
b)	Nominal thickness (mm)	0.3
(ii)	Metallic	
a)	Material	Single Layer of Copper Tape
b)	Approximate thickness (mm)	0.03

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c)	Earth fault Current withstand capacity of Cu Tape kA for 1 sec	0.15 kA for 1 Sec
Inner Sheath		
a)	Material	Extruded PVC Type ST2 to IS:5831, latest
b)	Minimum thickness (mm)	0.4
c)	Colour of sheath	Black
Armouring		
a)	Material	Aluminium
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	2.0
d)	Tolerance on armour dimensions	± 0.050 mm
Outer Sheath		
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest
(ii)	Thickness (mm)	1.72 (Min.)
(iii)	Colour of sheath	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.161
b)	Approx. Cable Capacitance (mfd/km)	0.26
c)	Approx. Cable reactance (ohm/km)	0.112
d)	Impedance of cable (ohm/km)	0.196
Continuous Current carrying capacities :-		
(a)	In Ground at 30°C (A)	321
(b)	In Air at 40°C (A)	455
Short Circuit rating of conductor for the duration of 1 sec (kA)		22.68
Standard to which the cables confirm		IS 7098 Part 2/2011, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments
Approx. Overall diameter (mm)		41.0 ± 3.0
Embossing		YEAR POLYCAB ELECTRIC 12.7 /22 KV (E) GRADE XLPE
Printing		YEAR POLYCAB ELECTRIC 12.7/22 KV (E) GRADE XLPE , CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.

Note:-The values given above are subject to tolerances as per the relevant standards