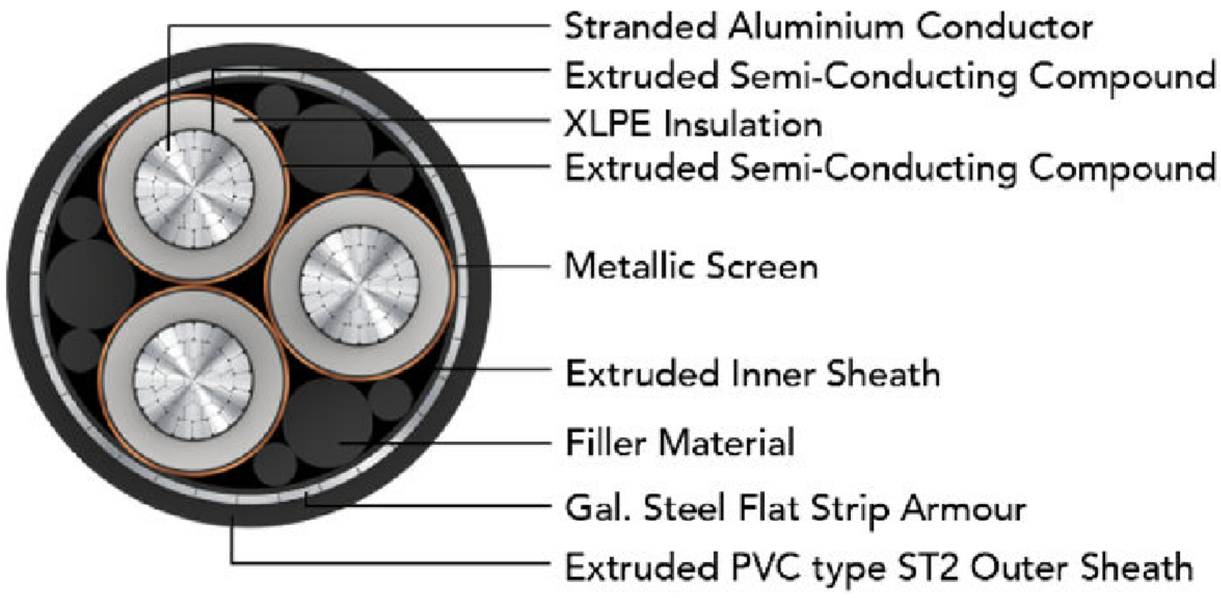
CABLES

POLYCAB





HT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002200

DESIGN CODE: MVIS16AXSFY2003C185SA001S

Particulars	3 X 185
Name of Manufacturer	Polycab India Ltd
Type of Cable	A2XFY
Voltage Grade kV	33/33
No of cores X size in sqmm	3 X 185
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)	0.164
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)	9.5
c) Core identification	By Coloured strips (Red,Yellow,Blue)
Insulation Screening	
i) Non - Metallic	
a) Material	Extruded Semi-conducting Compound

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b) Nominal thickness (mm)	0.3
ii) Metallic	
a) Material	Single Layer of Copper Tape
b) Approximate thickness (mm)	0.03
c) Earth fault Current withstand capacity of Cu Tape kA for 1 sec	0.46 kA for 1 Sec, 3 Core Combined
Inner Sheath	
a) Material	Extruded PVC Type ST2 to IS:5831/84
b) Minimum thickness (mm)	0.7
Armouring	
a) Material	Gal.Steel
b) Type of armouring	Flat Strip
c) Nominal size of armour (mm)	4.0 x 0.8
d) Tolerance on armour dimensions	± 10%
Outer Sheath	
a) Material	Extruded PVC Type 'ST2' as per IS:5831, latest
b) Thickness (mm)	3.00 (Min.)
c) Colour of sheath	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.211
b) Approx. Cable Capacitance (mfd/km)	0.17
c) Approx. Cable reactance (ohm/km)	0.116
d) Impedance of cable (ohm/km)	0.241
Continuous Current carrying capacities :-	
a) In Ground at 30°C (A)	270
b) In Air at 40°C (A)	336
Short Circuit rating of conductor for the duration of 1 sec (kA)	17.48
Standard to which the cables confirm	Generall as per IS 7098 Part 2/2011, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments
Approx. Overall diameter (mm)	88.0 ± 3.0
Embossing	YEAR POLYCAB ELECTRIC 33/33 KV (UE) GRADE XLPE
Printing	YEAR POLYCAB ELECTRIC 33/33 KV (UE) 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