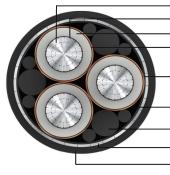


CABLES



- Stranded Aluminium Conductor - Extruded Semi-Conducting Compound - XLPE Insulation - Extruded Semi-Conducting Compound
- Metallic Screen
- Extruded Inner Sheath
- Filler Material
- Gal. Steel Flat Strip Armour
- Extruded PVC type ST2 Outer Sheath

## Document ID: TE/QMS/F/02



## HT XLPE CABLE

## DESIGN CODE : MVIS17AXSFY2003C185SA001S

Partic	ulars	3 Core X 185 Sq.mm	
Name of Manufacturer		POLYCAB INDIA LTD	
Type of Cable		A2XFY	
Voltage Grade kV		6.35/11 (E)	
No of cores X size in sqmm		3 Core X 185 Sq.mm	
Maximum conductor temperature under normal operating conditions		90°C	
Maximum conductor temperature at the termination of short circuit		250°C	
Permis	sible Voltage Variation	± 10%	
Permis	sible Frequency Variation	± 5%	
Combi	ned Voltage & Frequency variation	± 10%	
Conductor			
a)	Material	H4 Grade Aluminium as per Class 2 of IS: 8130, 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)	3.6	
c)	Core identification	By Coloured strips(Red,Yellow,Blue)	
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	
c)	Earth fault Current withstand capacity of Cu Tape for 1 sec (KA)	0.46 kA for 1 Sec, All 3 Cores Combined	
Inner Sheath			
a)	Material	Extruded PVC Type ST2 to IS:5831, latest	

Outer Sheath				
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest		
(ii)	Thickness (mm)	2.36 (Min.)		
(iii)	Colour of sheath	Black		
Elect	Electrical Parameters			
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.211		
b)	Approx. Cable Capacitance (mfd/km)	0.37		
c)	Approx. Cable reactance (ohm/km)	0.0911		
d)	Impedance of cable (ohm/km)	0.230		
Conti	Continuous Current carrying capacities :-			
(a)	In Ground at 30°C (A)	273		
(b)	In Air at 40°C (A)	330		
Short ( (kA)	Circuit rating of conductor for the duration of 1 sec	17.48		
Standa	rd to which the cables confirm	IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments		
Appro	x. Overall diameter (mm)	60.5 ± 3.0		
Embos	ssing	YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE		
Printin	g	YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.		
Minim	um Bending radius(mm)	15 times Overall diameter		
Standa	rd Drum Length (mtr)	500 +/- 5%		
Non-St	andard Drum Length (Mtr.)	Maximum 5% of order quantity		

0.7

**Galvanised Steel** 

Flat Strip 4.0 x 0.8

± 10%

Issued Date : 02/04/2018

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

www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com



b)

a)

b)

c)

d)

Armouring

Material

Minimum thickness (mm)

Nominal size of armour (mm)

Tolerance on armour dimensions

Type of armouring