





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



HT XLPE CABLE

DESIGN CODE: MVIS17AXSFY2003C400SA001S Document ID: TE/QMS/F/02

Partic	culars	3 Core X 400 sq.mm			
Name	of Manufacturer	POLYCAB INDIA LTD			
Type o	f Cable	A2XFY			
Voltage	e Grade kV	6.35/11 (E)			
No of o	cores X size in sqmm	3 Core X 400 sq.mm			
	um conductor temperature under normal ing conditions	90°C			
Maxim short c	um conductor temperature at the termination of ircuit	250°C			
Permis	sible Voltage Variation	± 10%			
Permis	sible Frequency Variation	± 5%			
Combi	ned Voltage & Frequency variation	± 10%			
Cond	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)	0.0778			
c)	Shape	Stranded Compacted Circular			
Cond	Conductor Screening				
a)	Material	Extruded Semi-conducting Compound			
b)	Nominal thickness (mm)	0.3			
Insula	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)			
Insula	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			





b)	Minimum thickness (mm)	0.7		
Armo	ouring			
a)	Material	Galvanised Steel		
b)	Type of armouring	Flat Strip		
c)	Nominal size of armour (mm)	4.0×0.8		
d)	Tolerance on armour dimensions	± 10%		
Oute	r Sheath			
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest		
(ii)	Thickness (mm)	2.84 (Min.)		
(iii)	Colour of sheath	Black		
Electrical Parameters				
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.102		
b)	Approx. Cable Capacitance (mfd/km)	0.50		
c)	Approx. Cable reactance (ohm/km)	0.0826		
d)	Impedance of cable (ohm/km)	0.131		
	Continuous Current carrying capacities :-			
Conti	nuous Current carrying capacities :-			
Conti	nuous Current carrying capacities :- In Ground at 30°C (A)	404		
	, , ,	404 512		
(a) (b)	In Ground at 30°C (A)			
(a) (b) Short ((kA)	In Ground at 30°C (A) In Air at 40°C (A)	512		
(a) (b) Short ((kA) Standa	In Ground at 30°C (A) In Air at 40°C (A) Circuit rating of conductor for the duration of 1 sec	512 37.79 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS		
(a) (b) Short ((kA) Standa	In Ground at 30°C (A) In Air at 40°C (A) Circuit rating of conductor for the duration of 1 sec ard to which the cables confirm x. Overall diameter (mm)	512 37.79 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments 76.0 ± 3.0		
(a) (b) Short (kA) Standa	In Ground at 30°C (A) In Air at 40°C (A) Circuit rating of conductor for the duration of 1 sec and to which the cables confirm x. Overall diameter (mm) ssing	512 37.79 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments		
(a) (b) Short (kA) Standa Appro Embos	In Ground at 30°C (A) In Air at 40°C (A) Circuit rating of conductor for the duration of 1 sec and to which the cables confirm x. Overall diameter (mm) ssing	37.79 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments 76.0 ± 3.0 YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING		
(a) (b) Short (kA) Standa Appro Embos Printin	In Ground at 30°C (A) In Air at 40°C (A) Circuit rating of conductor for the duration of 1 sec and to which the cables confirm x. Overall diameter (mm) assing	37.79 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments 76.0 ± 3.0 YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.		
(a) (b) Short (kA) Standa Appro Embos Printin Minim Standa	In Ground at 30°C (A) In Air at 40°C (A) Circuit rating of conductor for the duration of 1 sec and to which the cables confirm x. Overall diameter (mm) ssing g um Bending radius(mm)	37.79 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments 76.0 ± 3.0 YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. 15 times Overall diameter		

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