





Stranded Aluminium Conductor Extruded Semi-Conducting Compound XLPE Insulation Extruded Semi-Conducting Compound

Metallic Screen

Extruded Inner Sheath

Filler Material

Gal. Steel Round Wire Armour Extruded PVC type ST2 Outer Sheath



HT XLPE CABLE

DESIGN CODE: MVIS17AXSWY2003C240SA001S Document ID: TE/QMS/F/02

Partic	culars	3 Core X 240 Sq.mm
Name	of Manufacturer	POLYCAB INDIA LTD
Type o	f Cable	A2XWY
Voltage	e Grade kV	6.35/11 (E)
No of o	cores X size in sqmm	3 Core X 240 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%
	ned Voltage & Frequency variation	± 10%
Cond		
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)	0.125
c)	Shape	Stranded Compacted Circular
Cond	uctor Screening	
a)	Material	Extruded Semi-conducting Compound
b)	Nominal thickness (mm)	0.3
Insula	ation	
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	ation 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
	Approximate thickness (mm)	0.03
a)		
a) b) c)	Approximate thickness (mm) Earth fault Current withstand capacity of Cu Tape	0.03





b)	Minimum thickness (mm)	0.7
Armo	puring	
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	3.15
d)	Tolerance on armour dimensions	± 0.080 mm
Oute	r Sheath	
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest
(ii)	Thickness (mm)	2.68 (Min.)
(iii)	Colour of sheath	Black
Elect	rical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.162
b)	Approx. Cable Capacitance (mfd/km)	0.41
c)	Approx. Cable reactance (ohm/km)	0.0880
d)	Impedance of cable (ohm/km)	0.184
Conti	nuous Current correins conscitios	
Conti	nuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	315
(a) (b)	In Ground at 30°C (A) In Air at 40°C (A)	315 387
(a) (b)	In Ground at 30°C (A)	
(a) (b) Short ((kA)	In Ground at 30°C (A) In Air at 40°C (A)	387
(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	387 22.68 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 and to which the cables confirm x. Overall diameter (mm)	387 22.68 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	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	387 22.68 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments 70.0 ± 3.0
(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	22.68 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments 70.0 ± 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
(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) ssing	387 22.68 IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments 70.0 ± 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.

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