





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**

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Part	iculars	3 Core X 150 Sq.mm			
Name	e of Manufacturer	POLYCAB INDIA LTD			
Туре	of Cable	A2XFY			
Volta	ge Grade kV	6.35/11 (E)			
No of	cores X size in sqmm	3 Core X 150 Sq.mm			
	num conductor temperature under normal iting conditions	90°C			
_	num conductor temperature at the termination of circuit	250°C			
Perm	issible Voltage Variation	± 10%			
Perm	issible Frequency Variation	± 5%			
Coml	oined Voltage & Frequency variation	± 10%			
Con	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)	0.206			
c)	Shape	Stranded Compacted Circular			
Cond	Conductor Screening				
a)	Material	Extruded Semi-conducting Compound			
b)	Nominal thickness (mm)	0.3			
Insu	lation				
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)			
Insu	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			
Inne	r Sheath				
a)	Material	Extruded PVC Type ST2 to IS:5831, latest			





b)	Minimum thickness (mm)	0.6
Armo	ouring	
a)	Material	Galvanised Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	$4.0 \times 0.8$
d)	Tolerance on armour dimensions	± 10%
Oute	r Sheath	
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest
(ii)	Thickness (mm)	2.20 (Min.)
(iii)	Colour of sheath	Black
Elect	rical Parameters	
a)	Max. a.c. resistance of conductor at $90^{\circ}$ C (ohm/km)	0.265
b)	Approx. Cable Capacitance (mfd/km)	0.33
c)	Approx. Cable reactance (ohm/km)	0.0939
d)	Impedance of cable (ohm/km)	0.281
Cont	inuous Current carrying capacities :-	
Cont	inuous Current carrying capacities :- In Ground at 30°C (A)	242
	, , ,	242 288
(a) (b)	In Ground at 30°C (A)	
(a) (b) Short (kA)	In Ground at 30°C (A) In Air at 40°C (A)	288
(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	288 14.17 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 ex. Overall diameter (mm)	288  14.17  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 ax. Overall diameter (mm) ssing	288  14.17  IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments  56.0 ± 3.0
(a) (b) Short (kA) Standa Appro Embo	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 ax. Overall diameter (mm) ssing	288  14.17  IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments  56.0 ± 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 Embo 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 ax. Overall diameter (mm) ssing	288  14.17  IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments  56.0 ± 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 Embo 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 ax. Overall diameter (mm) ssing	288  14.17  IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments  56.0 ± 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.