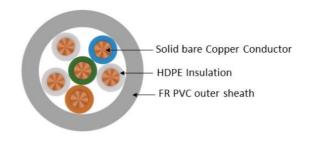


e) Nominal Diameter (mm)



SWITCHBOARD CABLE

Document ID: TE/QMS/F/02 DESIGN CODE : TLBL00CPUAYF003P0.5M

Particulars	3P x 0.5 mm		
Manufacturer Name	Polycab India Limited.		
Cable Type	Dry Telephone Unscreened Unarmoured Cable		
Applicable Specifications	Ref. GR/WIR-06/03. MAR 2002,		
Number of Pairs	3 Pair		
Conductor			
a) Material	Annealed Bare Copper Conforming to IS 8130 Latest.		
b) Class	Class 1		
c) Diameter Nom. (mm)	0.5		
d) Shape of Conductor	Circular		
e) Annealing (Min.)	15%		
Insulation			
a) Material	HDPE Type III of ASTM D 1248/BS 6234		
b) Nominal Thickness of insulation (mm)	The thickness of insulation shall be adequate to meet the electrical requirements		
c) Method of Application	Extrusion		
d) Colour scheme for identification of cores	As per IS-9938		
Cable Elements	Two insulated conductors uniformly twisted together to form a pair with suitable Right Hand Lay		
Colour coding / Pair identification	Table – 2 of GR/WIR-06/03 (Ref. Annexure-I)		
Twinning & Group Twinning	3 Pair twisted together for Laid-up of 3 Pr,		
Unit Identification	Not Applicable		
Laid up	The units shall be laid up as per cable size and construction.		
Outer Sheath			
a) Material	FR PVC		
b) Colour	Grey		
c) Type	ST 1 conforming to (As per IS – 5831)		
d) Thickness Min. (mm)	0.65		

4.8 ± 1.0





Electrical Test	0.50 mm Conductor	
a) Conductor Resistance (Max.)	92.2 Ω/Km	
b) Capacitance unbalance Pair to Pair (Max)	230 pF/km	
c) Insulation Resistance (Min.)	50 MΩ/Km	
d) Dielectric Strength (DC Voltage)	Dielectric Strength (DC Voltage)	
3 kV DC or 2 kV RMS Applied between each conductor and the remaining conductor bunch and earth	Withstand for 1 Minutes. There should not any breakdown of the insulation.	
Standard Length	Coil Formation (90/100/500 mtr)	
Prominently Printing Marking on the Cable	"YEAR" "SIZE" "POLYCAB DAMAN" "FR" SEQUENTIAL LENGTH MARKING AT EVERY ONE METER	

Annexure-1						
Pair Colour Coding						
	Colour of Insulation	Colour of Insulation				
Pairing Element	Conductor "A"	Conductor "B"				
1	White	Blue				
2	White	Orange				
3	White	Green				

CABLE MAKE-UP		
No of Pairs	No of Unit	Indentification Binder
3 Pair	1 x 3 Pr	Not Applicable

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