







JELLY FILLED UNDER GROUND ARMOURED TELECOM CABLE

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TITLE: GENERAL TECHNICAL PARTICULARS FOR SOLID POLYTHENE INSULATION COPPER CONDUCTOR, JELLY FILLED, CORE WRAPPED POLYESTER, MOISTURE BARRIER POLYAL SCREENED, BLACK 03C POLYTHENE INNER SHEATH, DOUBLE STEEL TAPE ARMOUR, BLACK 03C POLYTHENE OUTER SHEATHED UNDER GROUND ARMOURED TELECOMCABLE AS PER GR/CUG-01/03 AUG 2003

TRANSPORTATION	DD#1110
TECHNICAL DESCRIPTION	DETAILS
Make	Polycab India Ltd.
Cable Type	JELLY FILLED UNDER GROUND ARMOURED TELECOM CABLE
Applicable Specifications	TEC /BSNL Spec. NO GR/CUG-01/03AUG.2003
Number of Pairs	10 Pair
Quantity	As per your requirement
Conductor	
a) Material	Copper
b) Grade	
c) Nominal Diameter (mm)	0.50mm
d) Shape of Conductor	Circular
Insulation	Solid Polythene
a) Material	HDPE (Type III, Conforming to ASTM D 1248)
b) Nominal Thickness of insulation	The thickness of insulation shall be adequate to meet the
(mm)	electrical requirements
c) Method of Application	Extrusion
d) Color scheme for identification of cores	As per IS-9938
Twining	Two insulated conductors uniformly twisted together to form a pair so as to minimize cross talk. Each pair having different lay length not exceed 100 mm.
Group Twining	5 Pair Twisted together to for 5 Pair unit, 10 Pair Twisted together to for 10 Pair unit, 20 Pair Twisted together to for 20 Pair unit, In sub-units of 10 pairs for Laid-up of 50 pairs. (5 x 10Pair) In sub-units of 20 pairs for Laid-up of 100 pairs. (5 x 20Pair) In super units of 50 pairs for laid-up of 200 pairs. (4 x 50Pair)

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CABLES

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Unit Identification	Unit is identified by wrapping colored polypropylene binder.
Filling Compound	Petroleum jelly is used as a filling compound having permittivity less than 2.30. Jelly should be non-toxic odorless, non-hazardous and waterproof.
Laid up	Cable core is wrapped by longitudinally application of non-hygroscopic Polyester tape with suitable overlap.
Screening (Moisture Barrier)	
a) Material	Poly-al
b) Nom. Thickness of composite tape	0.300 mm (0.3±15%)
c) Overlap Minimum	Up to 100 Pr \rightarrow 3mm & above 200 Pr \rightarrow 6mm
Sheath	
a) Material	Black LDPE
b) Type	03C/HO3C of Conforming to BS 6234
c) Thickness Minimum	Up to 100 Pr \rightarrow 1.50 mm & 200 Pr \rightarrow 1.65mm
Bedding Tape	Two Black HDPE Tape shall be applied helically on the inner sheath
Armouring	Double Galvanized Steel Tape Armour
a) Thickness (mm)	0.50mm ± 10%
b) Gap (mm)	15% to 35% of the Nominal width
c) Overlap (mm)	Min.15% of the Nominal width
Jacket	
a) Material	Black LDPE
b) Type	03C/HO3C of Conforming to BS 6234
c) Thickness Minimum	1.05mm
d) Overall Diameter (mm)	For 5Pr \rightarrow 13.5±2mm, For 10Pr \rightarrow 15.5±2mm, For 20Pr \rightarrow 18.0±2mm, For 20Pr \rightarrow 18.0±2mm For 50Pr \rightarrow 23.5±2mm, For 100Pr \rightarrow 29.5±3mm, For 200Pr \rightarrow 38.5±3mm,
Electrical Parameter	0.50mm conductor
a) Conductor Resistance Maximum	92.0 Ohm/Km
b) Mutual Capacitance	49 – 55 nF/Km
c) CUPP Maximum	200 pF/Km
Average	50 pF/Km
d) CUPG Maximum	3000 pF/Km
Average	750 pF/Km
e) Dielectric Strength (DC Voltage)	A /
Conductor to Conductor	The insulation between conductors shall withstand for 3 seconds a DC potential of 2.4 KV
Conductor to shield	The insulation between the conductors & Sheild shall withstand for 3 seconds a DC potential of 5 KV
f) Insulation Resistance	Min. 5000 MOhm/Km
Standard Length (mtrs) Up to 50 Pair	1000mtr (±10%)
100 Pair	500mtr (±10%)
200 Pair	400mtr (±10%)
Cable Printing Details	"Handset" "SIZE " "POLYCAB INDIA" "Drum No" + Seq. mtr
(embossing/engraved)	marking
Length Marking	Cable length marked at every 1 meter of length
Type of Drum offered and its	
dimensions	Wooden Drum and dimension as per manufacturer discretion

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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