



COPPER TELECOM CABLE



DESCRIPTION

These are Polyethylene Insulated Jelly Filled Telecom Cables and provide excellent transmission performance in variety of field environment.

APPLICATION

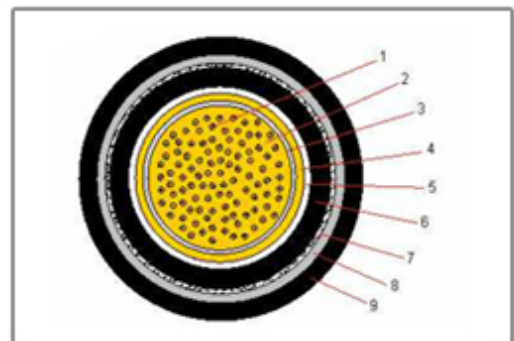
- Duct Application
- Direct Burial Application
- Local Distribution Networks
- Junctions between exchanges

FEATURES

- Armoured & Unarmoured construction
- Availability of standard conductor sizes ranging from 0.4 to 0.9 mm diameter.
- Available in 5 to 2400 pairs

CABLE CROSS SECTION

1. Insulated Copper Pair - Annealed copper insulated with polyethylene.
 2. Core Filling Compound - Petroleum Jelly
 3. Core Wrapping - Polyester Tape
 4. Flooding Compound - Polybutene based jelly
 5. Moisture Barrier - Co-polymer coated Aluminium Tape.
 6. Inner Sheath - Black Polyethylene
 7. * Bedding - Black Polyethylene Tape
 8. * Armour - Galvanised Steel Tape.
 9. * Outer Sheath - Black Polyethylene
- * For Armoured Cable





ELECTRICAL CHARACTERISTICS

Parameter

Conductor resistance at 20°C

0.40 mm diameter	135 +/- 8 Ohms/Km
0.50 mm diameter	86 +/- 6 Ohms/Km
0.63 mm diameter	58 +/- 4 Ohms/Km
0.90 mm diameter	28 +/- 8 Ohms/Km

Mutual capacitance

Average	52 +/- 3 nF/Km
Individual	52 +/- 4.5 nF/Km

Capacitance unbalance

Pair to Pair	Max average 50 pF/Km Max individual 200 pF/Km
Pair to Ground	Max average 750 pF/Km Max individual 3000 pF/Km

Insulation Resistance

Min 5000 Megaohm/Km

Attenuation at 150 KHz

0.40 mm diameter	Max. 12.00 dB/Km
0.50 mm diameter	Max. 8.25 dB/Km
0.63 mm diameter	Max. 6.30 dB/Km
0.90 mm diameter	Max. 4.40 dB/Km
Near end cross talk (individual)	Min. 55.00 dB/Km

Far end cross talk

Individual	Min. 55.00 dB/Km
RMS	Min. 67.80 dB/Km

COLOUR CODING

Colour of 1st Wire (Tip)
Colour of 2nd Wire (Ring)
Colour of Binder

White, Red, Black & Yellow
Blue, Orange, Green, Brown & Grey
Blue, Orange, Green, Brown & Grey

CORE INFORMATION

5 Pair : One unit of 5 Pair
10 Pair : One unit of 10 Pair
20 Pair : One unit of 20 Pair
50 Pair : Five units of 10 Pair

100 Pair : Five units of 20 Pair

200 Pair : Four super units of 50 Pairs
400 Pair : Eight super units of 50 Pairs
800 Pair : Eight super units of 101 Pairs
1200 Pair : Twelve super units of 101 Pairs
2400 Pair : Twenty four super units of 101 Pairs

IS/ ISO 9001-2000

IS/ ISO 14001

