



OTHER SPECIALITY CABLES



DESCRIPTION

100 Ohms Symmetrical Pair Cables Specified to 100 MHz. available in 4 Pair and 12 Pair size.

These are PE Insulated 0.4mm Annealed Tinned Copper Conductor, Overall Screened, Tinned Copper Braid and Halogen Free Flame Retardant Sheathed Communication Cables.

APPLICATION

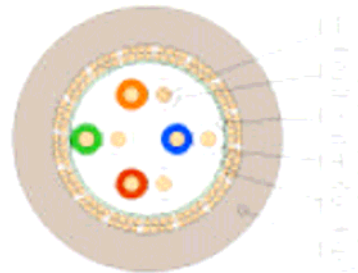
The cable is Halogen free and intended for indoor use in data communication.

FEATURES

- Excellent level of Fire retardancy to pass severe fire tests
- Good Flexibility

CABLE CROSS SECTION

- 1) **CONDUCTOR** - Tinned and annealed solid copper wire
- 2) **INSULATION** - PE Solid
- 3) **WRAPPING** – Plastic Foil
- 4) **HF SCREEN** – Al-PE-Al Plasti Foil
- 5) **LF SCREEN** – Tinned Copper Braid
- 6) **SHEATH** - FRPE Halogen Free



IS/ ISO 9001-2000



IS/ ISO 14001





ELECTRICAL CHARACTERISTICS

Conductor Resistance (IEC 60189-1)	Max. 153 Ohm/Km
Conductor Resistance Unbalance	Max. 4%
Mutual Capacitance (IEC 60189-1)	Nom. 53 nF/Km
Capacitance Unbalance Pair-Pair (IEC 601891)	Max. 150 pF/500 m
Capacitance Earth Unbalance (IEC 60189-1)	Max. 1600 pF/Km
DC Screen Resistance (IEC 60189-1)	Max. 15 m Ohm/m

Dielectric Strength (IEC 60189-1)

Conductor – Conductor	Min. 2.5 KV DC 2 Sec
Conductor to Shield	Min. 2.5 KV DC 2 Sec

Insulation Resistance (IEC 60189-1)

Min. 5000 M Ohm Km

Characteristic Impedance 1 – 100 MHz (IEC 61156-1)	100 ± 10 Ohms
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Attenuation (IEC 61156-1)

1 MHz	Max. 3.2 dB/100 m
4 MHz	Max. 6.5 dB/100 m
10 MHz	Max. 10 dB/100 m
16 MHz	Max. 13 dB/100 m
31.2 MHz	Max. 17 dB/100 m
62.5 MHz	Max. 23 dB/100 m
100 MHz	Max. 30 dB/100 m

Near End Cross Talk (IEC 61156-1)

1 MHz	Min. 62 dB
4 MHz	Min. 53 dB
10 MHz	Min. 47 dB
16 MHz	Min. 44 dB
31.2 MHz	Min. 40 dB
62.5 MHz	Min. 35 dB
100 MHz	Min. 32 dB

Propagation Delay (IEC 61156-1)

Min. 4.75 ns/m
Max. 5.05 ns/m

COLOUR CODE

Pair No. 1 – 12 : White-Blue, White- Orange, White-Green, White-Brown, Red-Blue, Red-Orange, Red-Green, Red-Brown, Black-Blue, Black-Orange, Black-Green, Black-Brown

NOTE : The given cable cross section and characteristics will change as per specifications desired by the customers.

