

Twisted Pair Cable

TECHNICAL DATA SHEET

FTP Cat5e 2P 24AWG PE-M

Application

- Ethernet (10Base-T), Fast Ethernet (100BASE-TX)
- Token Ring 16/100 Mbps
- FireWire 100 Mbps

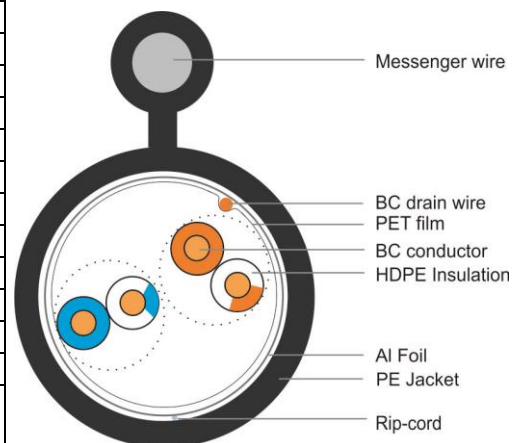
Standards

- ISO/IEC 11801
- YD/T1019-2001



Cable construction

Conductor	Material	Solid Bare Copper
	Diameter (mm)	0.505±0.005
Insulation	Material	HDPE
	Diameter (mm)	0.90±0.05
Color	A. Blue, White-Blue	B. Orange, White-Orange
Drain wire	0.4 mm Bare Copper	
Rip-cord	Yes	
Shielded	PET film 0.018mm	AL Foil
Sheath	Material	PE
	Thickness (mm)	0.55
	External diameter (mm)	5.0±0.3
	Color	Black (B)
Messenger	Galvanized steel wire diameter (mm)	1.2
	Sheath thickness (mm)	0.5
	Jacket Material	PE
	Overall diameter (mm)	(5.0×8.0)±0.3



Transmission performance

F MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	ELFEXT ≥dB
1.0	20.0	2.0	65.3	63.8
4.0	23.0	4.1	56.3	51.7
8.0	24.5	5.8	51.8	45.7
10.0	25.0	6.5	50.3	43.8
16.0	25.0	8.2	47.2	39.7
20.0	25.0	9.3	45.8	37.7
25.0	24.3	10.4	44.3	35.8
31.25	23.6	11.7	42.9	33.9
62.50	21.5	17.0	38.4	27.8
100.0	20.1	22.0	35.3	23.8

Characteristic Impedance (Ω)	100±15	1.0-100.0 MHz
DC Conductor Resistance (Ω/100m)	≤9.38	20°C
DC Resistance Unbalance (%)	≤ 2.5	
Mutual capacitance (nF/100m)	≤ 5.6	
Dielectric strength (kV, during 1 min)	1	DC. 1 min

Mechanical and environmental characteristics

Max Cable Tensile Strength	700 N
Min Cable Bending Radius	8 OD
Operational Temperature	-30°C ~ +60 °C

Packaging

Packing	Drum, carton
Packing dimension	37x32x38 cm
Packing length	500m