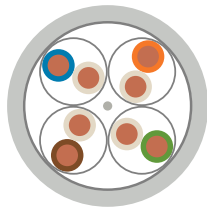


Data/LAN Cables

Cat 6A F/FTP PE



Application

- ISDN
- 4/6 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM Power over Ethernet (PoE)
- 10 BASE-T Ethernet (IEEE 802.3j)
- 100 BASE-VG AnyLAN (IEEE 802.12)
- 1000 BASE-T 1 Gigabit Ethernet (IEEE 802.3 ab)
- 10 GBASE-T 10 Gigabit Ethernet (IEEE 802.3 an)

Cable Construction

- 1 - Conductor : Electrolytic solid copper conductor
- 2 - Insulation : Foamed polyethylene clad with solid polyethylene
- 3 - Indv. Stranding : Insulations are stranded into pairs
- 4 - Indv. Screen : Al/PET tape
- 5 - Screen Wire : A tinned copper earthing wire between screened pairs
- 6 - Ovrl. Stranding : In layers
- 7 - Ovrl. Screen : Al/PET tape
- 8 - Outer Jacket : UV resistant polyethylene outer jacket, RAL 9005 (Black)

Technical Characteristics

Conductor Resistance Ω/km (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$ (20 °C)	Mutual Capacitance nF/km	Capacitance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-500 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
75	5000	42	%2	%78-80	100 $\pm$ %5	125	1200

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8.0xD mm	-20°C ~ +60°C

Standards

Manufacturing
ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801

Electrical Properties

Frequency MHz	Insertion Loss $\text{dB}/100\text{m}$ (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) $\text{dB}/100\text{m}$ (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) $\text{dB}/100\text{m}$ (Min.)	Return Loss (RL) dB (Min.)
1	2.1	74.3	72.3	67.8	64.8	20
4	3.8	65.3	63.3	55.8	52.8	23
8	5.3	60.8	58.8	49.7	46.7	24.5
10	5.9	59.3	57.3	47.8	44.8	25
16	7.5	56.2	54.2	43.7	40.7	25
20	8.4	54.8	52.8	41.8	38.8	25
25	9.4	53.3	51.3	39.8	36.8	24.3
31.25	10.5	51.9	49.9	37.9	34.9	23.6
62.5	15	47.4	45.4	31.9	28.9	21.5
100	19.1	44.3	42.3	27.8	24.8	20.1
200	27.6	39.8	37.8	21.8	18.8	18
250	31.1	38.3	36.3	19.8	16.8	17.3
300	34.3	37.1	35.1	18.3	15.3	16.8
400	40.1	35.3	33.3	15.8	12.8	15.9
500	45.3	33.8	31.8	13.8	10.8	15.2

Cat 6A F/FTP PE

Part Number	Pair Count	Conductor Diameter (AWG)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.46A10.12.5.0.0.1 0.A1Db.04	4	23	7.2	20.1	46	500/1000