



Product Description

DME PROLINK's Category 6 F/UTP cables are manufactured and tested to the TIA/EIA 568-C2, EN50173-1 and ISO/ IEC 11801 Category 6 specifications. DME PROLINK's Category 6 F/UTP cable is designed for optimal support of High-Speed data protocols delivering 1 Gbps performance to the workstation. Each cable consists of 8 colour coded 23AWG polyethylene insulated conductors. Each conductors are twisted together to form 4 pairs with varying lengths. These pairs are then put around a central 'X' shaped polyethylene filler/Separator which helps in maintaining and enhancing the cable performance. There is an overall foil around the pairs. DME PROLINK's CAT6 cable is designed for quick and easy installation where no special tools are required.

Features & Benefits

- Performance exceeding Category 6 specifications of 250MHz
- Performance compliance to ISO/IEC 11801, ANSI/TIA-568-C2 and YD/T 1019
- AWG 23, Solid Bare Annealed Copper
- Low Smoke Zero Halogen
- Fire rated to IEC 60332-1
- 25 Years System Warranty

Standards Complied and Verified for Category 6 Cable Performance

- ISO/IEC 11801:2011 (Ed.2.2)
- ANSI/TIA-568-C2:2009
- IEC 61156-5:2012 (Ed.2.1)
- EN 50173-1:2011; EN 50173-2:2007 including amendment A1:2010
- EN 50288-6-1:2013

Supporting Applications

- 10G BASE-T (Length <50m)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-T (IEEE 802.3)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 10BASE-T (IEEE 802.3)
- 1.2 Gbps ATM
- 55/155 Mbps ATM
- 4/16 Mbps TOKEN RING (IEEE 802.5)

Standards Complied and Verified for Category 6 Cable – Flammability, Halogen acidity & Smoke Performance

- IEC 60332-1 – [1,2]:2004
- IEC 60754-[1,2]
- IEC 61034-[1,2]

Specification

Overall Diameter (mm)	6.4 ± 0.4
Sheath Thickness (mm)	0.60 ± 0.05
Sheath Surface	Clean, Frap, Satiation
Insulation Material	HDPE
Insulation Overall diameter (mm)	1.04 ± 0.03
Screening Material	Mylar +Al/Mylar
Conductor Diameter (mm)	0.520 (± 0.005)
Conductor Material	Solid Bare Copper
Impedance (Ω) @ 1-250 MHz	100 ± 15 Ω
Delay Skew (ns/100m) @ 1-250 MHz	≤ 45
Max. DC Resistance (Ω/100m)	9.38
Max. DC Conductor Resistance Unbalance (%)	5.0
Nominal Velocity of Propagation (NVP)	68%
Rip cord	Yes
Drain Wire	Yes
Max. Pulling Force (N)	100
Min. Bend Radius during Installation	8xD (Overall diameter)
Min. Bend Radius after Installed	4xD (Overall diameter)
Installation Temperature Range	-20°C to +50°C
Operating Temperature Range	-30°C to +50°C
Packing Length (Meters)	305 ± 1.5

Technical Performance

Freq. (MHz)	RL (Min. dB)	ATTN (Max. dB/100m)	NEXT (Min. dB)	PSNEXT (Min. dB)	ELFEXT (ACR-F) (Min. dB/100m)	PSELFEXT (PSACR-F) (Min. dB/100m)	Phase Delay (Max. ns)
1	20.0	2.03	74.3	72.3	67.8	64.8	570.00
4.0	23.0	3.78	65.3	63.3	55.8	52.8	552.00
8.0	24.5	5.32	60.8	58.7	49.7	46.7	546.73
10.0	25.0	5.95	59.3	57.3	47.8	44.8	545.38
16.0	25.0	7.55	56.2	54.2	43.7	40.7	543.00
20.0	25.0	8.47	54.8	52.8	41.8	38.8	542.05
25.0	24.3	9.51	53.3	51.3	39.8	36.8	541.20
31.25	23.6	10.67	52.0	49.9	37.9	34.9	540.44
62.5	21.5	15.38	47.4	45.4	31.9	28.9	538.55
100	20.1	19.80	44.3	42.3	27.8	24.8	537.60
200	18.0	28.98	39.8	37.8	21.8	18.8	536.54
250	17.3	32.85	38.3	36.3	19.8	16.8	536.27

Part Number
D0174-FU3LSGY
Horizontal Cable, Cat-6, F/UTP, 305m, LSZH Sheath, AWG 23, Grey