



Product Description

DME PROLINK's Category 6 F/UTP cables are manufactured and tested to the ANSI/TIA 568-C.2, EN50173-1 and ISO/ IEC 11801 Ed. 2.0 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 24AWG 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 Aluminum/Polyester 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-C.2 and YD/T 1019
- AWG 24, Solid Bare 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-C.2:2009
- 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)	6.5 ± 0.3
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	Aluminum / Polyester Foil
Conductor Diameter (mm)	0.52 (± 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
Mutual Capacitance (nF/100m)	< 5.6
Capacitance Unbalance (pF/100m)	330
Nominal Velocity of Propagation (NVP)	68%
Rip cord	Yes
Drain Wire	Yes
Max. Pulling Force (KG)	11.5
Min. Bend Radius during Installation	8xD (Overall diameter) at -20°C to ±1°C
Min. Bend Radius after Installed	4xD (Overall diameter)
Installation Temperature Range	0°C to +50°C
Operating Temperature Range	-20°C to +70°C
Packing Length (Meters)	305 ± 1.5

Technical Performance

Freq. (MHz)	Insertion Loss (Max. dB)	NEXT (Min. dB)	ACR-N (Min. dB)	RL (Min. dB)	PSNEXT (Min. dB)	ELFEXT (ACR-F) (Min. dB)	PSELFEXT (PSACR-F) (Min. dB)
1	1.9	65.0	62.0	19.1	62.0	64.2	61.2
4.0	3.5	64.1	60.6	21.0	61.8	52.1	49.1
8.0	5.0	59.4	54.4	21.0	57.0	46.1	43.1
10.0	5.5	57.8	52.3	21.0	55.5	44.2	41.2
16.0	7.0	54.6	47.6	20.0	52.2	40.1	37.1
20.0	7.9	53.1	45.2	19.5	50.7	38.2	35.2
25.0	8.9	51.5	42.7	19.0	49.1	36.2	33.2
31.25	10.0	50.0	40.0	18.5	47.5	34.3	31.3
62.5	14.4	45.1	30.8	16.0	42.7	28.3	25.3
100	18.6	41.8	23.3	14.0	39.3	24.2	21.2
200	27.4	36.9	9.6	11.0	34.3	18.2	15.2
250	31.1	35.3	4.2	10.0	32.7	16.2	13.2

Part Number

D01715-FU3LSGY
Horizontal Cable, Cat-6, F/UTP, 305m, LSZH Sheath, AWG 24, Grey