



Product Description

DME PROLINK's Category 6 U/FTP 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 U/FTP 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 foiled with Aluminum/Polyester Tape. 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
- AWG 23, 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)	7.3 ± 0.3
Insulation Material	Foam Polyolefin
Screening Material	Aluminum / Polyester Tape
Conductor Diameter	23AWG
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	No
Drain Wire	Yes
Max. Pulling Force (KG)	11.22
Min. Bend Radius during Installation	8 x D (Overall diameter)
Min. Bend Radius after Installed	4 x D (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 (Min. dB)	RL (Min. dB)	PSNEXT (Min. dB)	ELFEXT (ACR-F) (Min. dB)	PSELFEXT (PSACR-F) (Min. dB)
1	2.0	74.3	72.3	20.0	72.3	67.8	64.8
4.0	3.8	65.3	61.5	23.0	63.3	55.8	52.8
8.0	5.3	60.8	55.5	24.5	58.8	49.7	46.7
10.0	6.0	59.3	53.3	25.0	57.3	47.8	44.8
16.0	7.6	56.2	48.6	25.0	54.2	43.7	40.7
20.0	8.5	54.8	46.3	25.0	52.8	41.8	38.8
25.0	9.5	53.3	43.8	24.3	51.3	39.8	36.8
31.25	10.7	51.9	41.2	23.6	49.9	37.9	34.9
62.5	15.4	47.4	32.0	21.5	45.4	31.9	28.9
100	19.8	44.3	24.5	20.1	42.3	27.8	24.8
200	29.0	39.8	10.8	18.0	37.8	21.8	18.8
250	32.8	38.3	5.5	17.3	36.3	19.8	16.8

Part Number

D01715-UF3LSGY
Horizontal Cable, CAT6, U/FTP, 305m, LSZH Sheath, AWG 23, Grey