

Features & Benefits

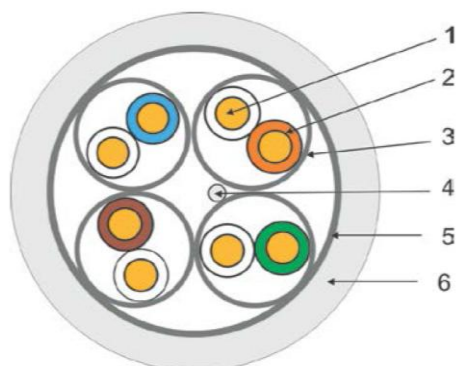
- Enhanced Performance meeting Category 6A specifications up to 500 MHz
- Performance compliance to ISO/IEC 11801 and ANSI/TIA-568-C2
- Third Party Delta EC verified
- AWG 23, Solid Bare Annealed Copper
- Low Smoke Zero Halogen
- Fire rated to IEC 60332-1
- 25 Years System Warranty

Product Description

DME PROLINK's Category 6A F/FTP cables are manufactured and tested to the TIA/EIA 568-C2, EN50173-1 and ISO/ IEC 11801 Category 6A specifications. DME PROLINK's Category 6A F/FTP cable is designed for optimal support of High-Speed data protocols delivering 10 Gbps performance to the workstation. Each cable consists of 8 colour coded 23AWG polyolefin Foam-Skin insulated conductors. Each conductors are twisted together to form 4 pairs with varying lengths. Each pairs are then wrapped with Aluminium/ Polyester foil. Then an overall Aluminium/ Polyester foil wrapped around all pairs. DME PROLINK's CAT6A cable is designed for quick and easy installation where no special tools are required. CAT6A cable is supplied in 305m Drums.

Specification

Overall Diameter (mm)	7.6
Sheath Surface	Clean, Frap, Satiation
Insulation Material	Polyolefin Foam-Skin
Conductor Diameter (mm)	0.57 (± 0.005)
Conductor Material	Solid Bare Annealed Copper
Mean Input Impedance (Ω) @ 1-250 MHz	100 ± 5 Ω
Delay Skew (ns/100m)	Max 40
Max. Propagation delay (ns@10MHz):	518
Max. DC Resistance (Ω/Km) @ 20°C	95.0
Nom. Mutual Capacity (nF/km)@1kHz	56
Nominal Velocity of Propagation (NVP)	70%
Drain Wire	Yes
Max. Pulling Force (N)	100
Min. Bend Radius during Installation	8xD (Overall diameter)
Min. Bend Radius after Installed	4xD (Overall diameter)
Storage Temperature Range	-20°C to +70°C
Operating Temperature Range	-20°C to +70°C
Packing Length (Meters)	500 ± 1.5



Construction

- 1 – Conductor: 23 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin Foam-Skin.
- 3 – Varying short pair lay-length (4 pairs). Individual Aluminium/polyester foil.
- 4 – Tinned copper drain wire.
- 5 – Overall Aluminium/polyester foil
- 6 – Sheath: LSZH material

Standards Complied and Verified for Category 6A 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 50288-10-1:2012

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

- EN/IEC 60332-1-2
- IEC 60754-[1,2]
- IEC 61034-[1,2]

Supporting Applications

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

Technical Performance

Freq. (MHz)	RL (Min. dB)	ATTN (Max. dB/100 m)	NEXT (Min. dB)	PSNEXT (Min. dB)	ELFEXT (ACR-F) (Min. dB/100m)	PSELFEXT (PSACR-F) (Min. dB/100m)	ACR (Min. dB/100m)	PS-ACR (Min. dB/100m)
1	20.0	2.1	75.3	72.3	68.0	65.0	73.2	70.2
4.0	23.0	3.8	66.3	63.3	56.0	53.0	62.5	59.5
8.0	24.5	5.3	61.8	58.8	69.9	46.9	56.4	53.4
10.0	25.0	5.9	60.3	57.3	48.0	45.0	54.4	51.4
16.0	25.0	7.5	57.2	54.2	43.9	40.9	49.8	46.8
25.0	24.3	9.4	54.3	51.3	40.0	37.0	45.0	42.0
31.25	23.6	10.5	52.9	49.9	38.1	35.1	42.4	39.4
62.5	21.5	15.0	48.4	45.4	32.1	29.1	33.4	30.4
100	20.1	19.0	45.3	42.3	28.0	25.0	26.2	23.2
155	18.8	24.1	42.4	39.4	24.2	21.2	18.4	15.4
200	18.0	27.6	40.8	37.8	22.0	19.0	13.2	10.2
250	17.3	31.1	39.3	36.3	20.0	17.0	8.3	5.3
300	17.3	34.3	38.1	35.1	18.5	15.5	3.9	0.9
350	17.3	37.2	37.1	34.1	17.1	14.1	---	---
400	17.3	40.1	36.3	33.3	16.0	---	---	---
500	17.3	45.3	34.8	31.8	14.0	---	---	---

Part Number

D0188-FF5LSWT

Horizontal Cable, CAT 6A, F/FTP, 500m, LSZH Sheath, AWG 23, White

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