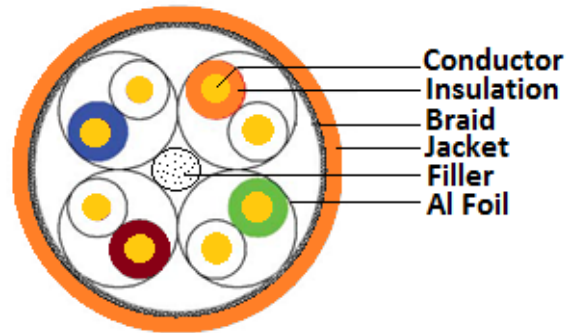


COPPER CABLE

DME PROLINK Category 8.1 Screened Foiled Twisted Pair (S/FTP), 23AWG LSZH Cable



Product Description

DME PROLINK's Category 8.1 S/FTP cables are manufactured and tested to the TIA/EIA 568-C2-1 2016, IEC61156-9 and ISO/ IEC TR 11801-9901 2014 Category 8.1 specifications. DME PROLINK's Category 8.1 S/FTP cable is designed for optimal support of High-Speed data protocols delivering 40 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. DME PROLINK's CAT8.1 cable is designed for quick and easy installation where no special tools are required. CAT8.1 cable is supplied in 30m Reel or 100m Drum.

Supporting Applications

- 40G BASE-T (40 Gbps) up to 30 meters
- 25G BASE-T
- 10G and lower Ethernet Applications

Overall Diameter (mm)	7.8 ± 0.50mm
Filler	Cotton Rope
Sheath Material	LSZH (complies RoHS)
Foil Screen	Al /PET
Braid Material	Tinned Copper; Coverage ≥60%
Insulation Material	Foam PE
Insulation Diameter (mm)	1.45 ± 0.03
Conductor Diameter (mm)	23AWG, 0.596 (± 0.005)
Conductor Material	Solid Bare Copper
Dielectric Strength	DC 1KV for 1min
Delay Skew (ns/30m) @ 1-2000 MHZ	Max 13.5
Max. Conductor Resistance @ 20°C	6.79 Ohms/100m
DC Conductor Resistance Unbalance	Max 5.0% between pairs
Nominal Velocity of Propagation (NVP)	78%
Ripcord / Drain Wire	No / No
Max. Pulling Force (N)	100
Min. Bend Radius during Installation	8xD (Overall diameter)
Installation Temperature Range	+0°C to +60°C
Operating Temperature Range	-20°C to +75°C
Packing Length (Meters)	30m or 100m

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Features & Benefits

- Enhanced Performance meeting Category 8.1 specifications up to 2000MHz
- Performance compliance to ISO/IEC 11801 and ANSI/TIA-568-C2
- AWG 23, Solid Bare Copper
- Low Smoke Zero Halogen
- Fire rated to IEC 60332-1 -2
- 25 Years System Warranty

Standards Complied and Verified for Category 8.1 Cable Performance

- ISO/IEC TR 11801-9901 2014
- TIA/EIA 568-C2-1 2016
- IEC 61156-9

Standards Complied and Verified for Category 6A Cable

Flammability, Halogen acidity & Smoke Performance

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

Transmission Characteristics (ANSI/TIA 568C.2-1 : Horizontal Cable for a length of 30m)

Freq. (MHz)	RL (Min. dB)	ATT (Max. dB/30m)	NEXT (Min. dB)	PSNEXT (Min. dB)	ELFEXT (ACR-F) (Min. dB/30m)	PSELFEXT (PSACR-F) (Min. dB/30m)
1	24.0	0.5	90.0	87.0	88.0	85.0
16.0	30.0	2.1	77.1	74.6	67.7	66.9
100	27.0	5.4	65.7	64.9	54.0	51.5
250	25.5	8.7	67.5	64.7	42.9	43.9
500	23.0	12.6	60.6	58.7	37.3	34.4
600	22.0	14.1	64.3	61.9	32.8	31.0
1000	20.0	19.2	60.9	58.2	28.9	28.1
1500	18.0	22.7	53.3	50.4	21.6	21.4
2000	16.0	28.1	41.0	38.6	19.2	17.4

Note

The maximum length of CAT8 channel is up to 30 meters, the performance is in accordance to ISO/IEC TR 11801-9901 limits for a channel Class I.

The channel configuration consist of 24 meters CAT8 horizontal cable and 3 meters patch cord at both ends which are installed with CAT8 Keystone jacks and CAT8 field termination plugs.

Order Guide

D0214-SF.3LSOR	Horizontal Cable, CAT 8.1, S/FTP, 30m, LSZH Sheath, AWG 23, Orange
D0214-SF1LSOR	Horizontal Cable, CAT 8.1, S/FTP, 100m, LSZH Sheath, AWG 23, Orange
D0214-SF3LSOR	Horizontal Cable, CAT 8.1, S/FTP, 305m, LSZH Sheath, AWG 23, Orange
D0214-SF5LSOR	Horizontal Cable, CAT 8.1, S/FTP, 500m, LSZH Sheath, AWG 23, Orange