



Product Description

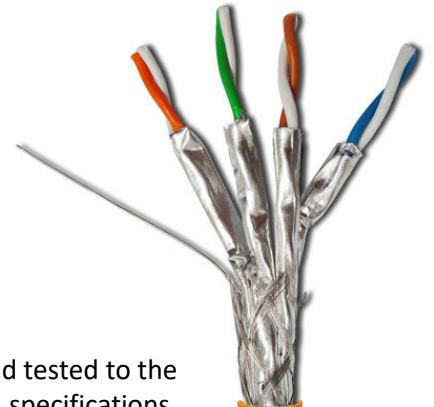
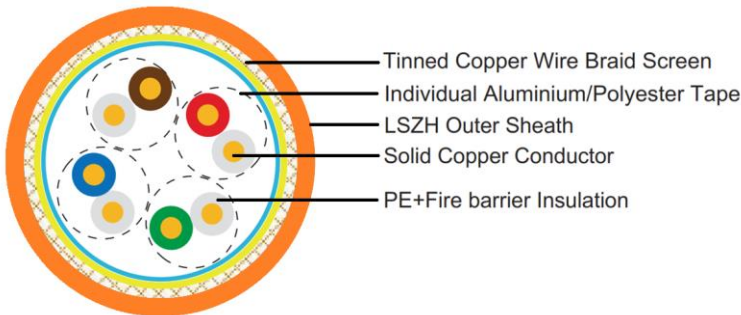
DME PROLINK's Fire Resistant Category 6A S/FTP cables are manufactured and tested to the IEC 60331-23, ANSI/TIA 568.2-D, EN50173-1 and ISO/ IEC 11801 Category 6A specifications. DME PROLINK's Category 6A S/FTP cable is designed for optimal support of High-Speed data protocols delivering 10 Gbps performance. Each cable consists of 8 colour coded 23AWG PE + Fire Barrier insulated conductors. Each conductors are twisted together to form 4 pairs with varying lengths. Each pairs are then wrapped with Aluminium foil and an overall Tinned Braided Shield. DME PROLINK's CAT6A cable is designed for quick and easy installation where no special tools are required. CAT6A cable is supplied in 305m or 500m Drums.

Features & Benefits

- Fire Resistant Compliant to IEC 60331-23
- Enhanced Performance meeting Category 6A specifications up to 500 MHz
- Performance compliance to ISO/IEC 11801 and ANSI/TIA 568.2-D
- AWG 23, Solid Bare Copper (0.58mm)
- Thermoplastic Low Smoke Zero Halogen Outer Jacket
- Flamed Retardant as per IEC 60332-1-2, IEC60332-3-24
- 25 Years System Warranty

Standards Complied and Verified for Category 6A Cable Performance

- ISO/IEC 11801:2011 (Ed.2.2)
- ANSI/TIA-568.2-D: 2018
- EN 50173-1:2011



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)

Cable Construction

Overall Diameter (mm)	12.5 ± 0.4mm
Insulation Material	PE + Fire Barrier
Conductor Diameter (mm)	0.58 (± 0.005) / 23AWG
Conductor Material	Solid Bare Copper
1 st Shield	Polyester Aluminum Foil
2 nd Shield	Tinned Copper Braiding
Drain Wire	Yes. Tinned Copper
Outer Sheath	Thermoplastic LSZH

Circuitry Integrity, Flammability, Halogen acidity & Smoke Performance Compliance

- IEC 60331-23 (Circuit Integrity > 3hrs @ 750°C)
- EN 50200 (Circuit Integrity > 3hrs @ 950°C)
- BS 6387 (Circuit Integrity > 3hrs @ 950°C)
- BS 5839 Clause 26.2E (Circuit Integrity > 2hrs @ 950°C)
- BS 8434-2 Class PH120 (120 Minutes)
- BS 5839-1 2002 + A2 2008
- IEC/EN 60332-1-2 (Flame Retardance)
- IEC 60754-1, EN 50267-2-1 (Halogen Free)
- IEC 60754-2, EN 50267-2-2 (No Corrosive Gas Emission)
- IEC 61034-[1,2] (Minimum Smoke Emission)

Electrical, Mechanical and Thermal Properties

Mean Input Impedance (Ω) @ 1-500 MHz	100 ± 15 Ω
Delay Skew (ns/100m)	Max 45
Max. DC Resistance (Ω/100m) @ 20°C	9.38
Max. DC Conductor Resistance Unbalance (%)	3.0
Nominal Velocity of Propagation (NVP)	70%
Max. Pulling Force (N)	100
Min. Bend Radius during Installation	8xD (Overall diameter)
Min. Bend Radius after Installed	4xD (Overall diameter)
Temperature Range	-20°C to +90°C
Packing Length (Meters)	305 ± 1.5 or 500 ± 1.5



Standard



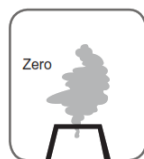
Circuit Integrity
IEC 60331-23/BS 6387(Optional)



Flame Retardancy
BS EN 60332-1-2



Reduced Fire Propagation
EN 60332-3-24



Halogen Free
IEC 60754-1



Low Corrosivity
IEC 60754-2



Low Smoke Emission
IEC 61034-2

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)
1	20.0	2.0	74.3	72.3	67.8	64.8
4.0	23.0	3.8	65.3	63.3	55.8	52.8
8.0	24.5	5.3	60.8	58.8	49.7	46.7
10.0	25.0	6.0	59.3	57.3	47.8	44.8
16.0	25.0	7.6	56.2	54.2	43.7	40.7
20.0	25.0	8.5	54.8	52.8	41.8	38.8
25.0	24.3	9.5	53.3	51.3	39.8	36.8
31.25	23.6	10.7	51.9	49.9	37.9	34.9
62.5	21.5	15.4	47.4	45.4	31.9	28.9
100	20.1	19.8	44.3	42.3	27.8	24.8
200	18.0	29.0	39.8	37.8	21.8	18.8
250	17.3	32.8	38.3	36.3	19.8	16.8
300	16.8	36.4	37.1	35.1	18.3	15.3
350	16.3	39.8	36.1	34.1	16.9	13.9
400	15.9	43.0	35.3	33.3	15.8	12.8
450	15.5	46.3	34.5	32.5	14.7	11.7
500	15.2	48.9	33.8	31.8	13.8	10.8

Part Number

D018-SF5LSBK-FXR	Fire Resistant CAT 6A, S/FTP, 500m, LSZH Sheath, AWG 23, Black (IEC 60331-23 Compliant)
D018-SF5LSOR-FXR	Fire Resistant CAT 6A, S/FTP, 500m, LSZH Sheath, AWG 23, Orange (IEC 60331-23 Compliant)

