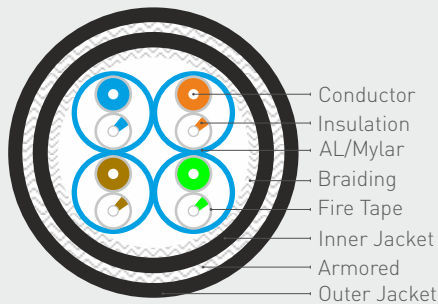
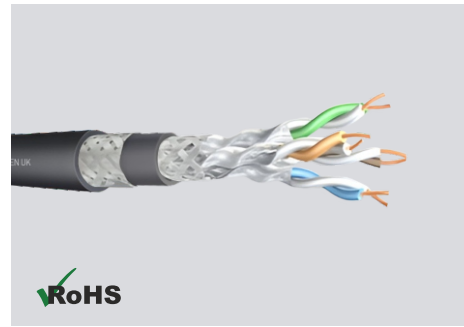


CAT 6A S/FTP 4 PAIR 23 AWG GALVANIZED STEEL WIRE ARMoured CABLE LSZH/XL-LSZH



Norden Category 6A S/FTP cables surpass Category 6A / Class EA standards. They are engineered for 10 Gigabit applications, offering superior electromagnetic compatibility (EMC) by reducing radiation, enhancing noise resistance, and delivering excellent alien crosstalk performance.

The Cat 6A S/FTP armored cable features 23 AWG solid bare copper conductors, each individually shielded with foil and an overall braid shield. It includes galvanized steel wire armor positioned between the inner LSZH sheath and the outer XL-LSZH sheath. The sheath is resistant to UV, ozone, radiation, oil, and fuel, while also being flame retardant and fire resistant.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D
Category 6A ISO/IEC-11801, 2nd Edition Class EA
IEC 61156-6
LSZH: IEC 60332-1, IEC 60754, IEC 61034

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	XLPE
Insulation Thickness	0.36 mm
Insulation O.D.	1.30 ± 0.10mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Barrier Tape	Fire Tape
Individual Shield Material	AL/Mylar Tape
Overall Shield Material	Tinned Copper Braiding, ≥60%
Total number of Wires	8
Inner Sheath Material	LSZH
Inner Sheath Thickness	0.75 mm
Inner Sheath Diameter	9.50±0.50mm
Inner Jacket Color	Black
Armored Material	Galvanized Steel Wire Braiding, ≥60%
Armour Thickness	0.3 mm
Outer Jacket Material	XL-LSZH
Outer Jacket Thickness	0.90 mm
Outer Jacket Diameter	12.50 ± 0.60mm
Outer Jacket Colour	Black
Drain Wire	As Per Request
Rip Cord	As Per Request
Marking	As Per Requirement

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ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	Nom.100 Ohm @100MHz
DC Resistance	≤70 Ohm/km
DC Resistance Unbalance	≤5%
Dielectric Strength (conductor to conductor, conductor to screen)	DC 1KV for 1min
Insulation Resistance	≥5000 MΩ.km
Delay Skew	≤45 ns/100 m
Nom. Velocity of Propagation	62%
Min.Bend Radius	Fixed ≥15 OD
Tensile Strength (Before Aging)	≤100N
Operating Temperature Range	-40°C to +80°C
Storage Temperature Range	-20°C to +60°C
Acid Gas Release Mounts	≤5mg/g (IEC 60754)
Burning Occur Gas Acidity	PH≥4.3 (IEC 60754-2)
Burning Occur Gas Conductivity	<10 μS/mm (IEC 60754-2)
Smoke Density	≥60% (IEC 61034-2)
Flame Resistance	IEC 60332-1-2
Fire Resistance	IEC 60331-23
Ozone Resistance	IEC 60811-403
Oil and Fuel Resistance	IEC 60811-404
UV Resistance	Yes

TRANSMISSION PERFORMANCE

Frequency MHz	Max. ATT dB/100m	Min.RL dB	Min.NEXT dB	Min. PS NEXT dB	Min.ACR-F dB	Min.PS ACR-F dB	Max.Phase Delay ns/100m
1	3.1	20.0	75.3	72.3	68.0	65.0	570.0
4	5.7	23.0	66.3	63.3	56.0	53.0	552.0
8	8.1	24.5	61.3	58.8	49.9	46.9	546.7
10	8.9	25.0	60.3	57.3	48.0	45.0	545.4
16	11.2	25.0	57.2	54.2	43.9	40.9	543.0
20	12.6	25.0	55.8	52.8	42.0	39.0	542.0
25	14.1	24.2	54.3	51.3	40.0	37.0	541.2
31.25	15.8	23.3	52.9	49.9	38.1	35.1	540.4
62.5	22.5	20.7	48.4	45.4	32.1	29.1	538.6
100	28.7	19.0	45.3	42.3	28.0	25.0	537.6
200	41.4	16.4	40.8	37.8	22.0	19.0	536.5
250	46.6	15.6	39.3	36.3	20.0	17.0	536.3
300	51.4	15.6	38.1	35.1	18.5	15.5	536.1
400	60.1	15.6	36.3	33.3	16.0	13.0	535.5
500	67.9	15.6	34.8	31.8	14.0	11.0	535.6

ORDERING INFORMATION

Part Number	Description
114-20F2X504X	Cat 6A S/FTP 4 Pair 23 AWG Galvanized Steel Wire Armoured Cable LSZH/XL-LSZH

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)