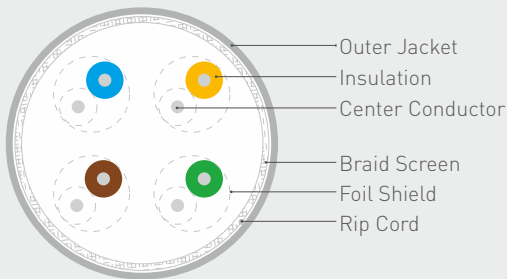
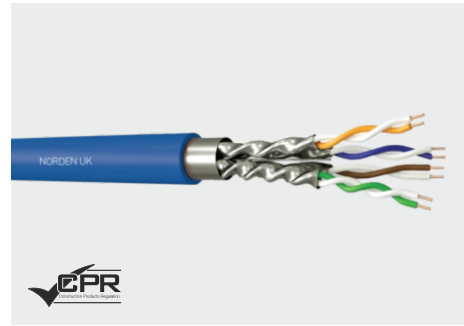


CATEGORY 6A F/FTP 23 AWG 4 PAIR CABLE LSZH Dca

Norden Category 6A F/FTP cables exceed Category 6A / Class EA specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte applications to full 100 m. Extremely high pair-balance providing excellent EMC (Electro Magnetic compatibility). minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/FTP cabling systems. F/FTP (Twisted Pair - overall and individual Foil shield) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D Category 6A
ISO/IEC-11801, 2nd Edition Class EA
IEC 61156-5:2002 Category 6A
EN 50288-11-1, EN 50173-1
CPR Compliance to Dca s2,d2,a1
EN 60332-1-2, EN 50399
EN 61034-2, EN 60754-2

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23AWG
Conductor Construction	Solid
Insulation Material	Skin Foam Skin PE
Insulation O.D.	1.35 mm nom.
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Drain Wire	Yes
Drain-Wire Material	Tinned Copper
In. Shield Material	100 % Coverage
In .Shield Coverage	100 % Coverage
Overall Shield Material	AL-PET Foil
Overall Foil Shield	Yes
Outer Jacket Material	LSZH
Outer Jacket Diameter	7.50 ± 0.20mm



CATEGORY 6A F/FTP 23 AWG 4 PAIR CABLE LSZH Dca

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Max DC Resistance	<9.5 Ω / km
Max. Resistance Unbalance	<2%
Min. Insulation Resistance	5000 MΩ x m
Mutual Capacitance	<56 pF / m
Capacitance Unbalance	1600 pF / km
Impedance at 100 Mhz	100 ± 5 Ω
Propagation Delay Skew	< 25 ns / 100 m
Velocity of Propagation	76 %
Coupling Attenuation	60 dB
Min. Impact	10 Impact
Max. Tensile Strength	95 N
Min. Crush Resistance	1000 N/10 cm
Short Term Bend Radius	60mm
Long Term Bend Radius	30mm
Test Voltage	1000 V
Operating Voltage	125 V
Operating Temperature Rate	-20°C +70°C
Installation Temperature Rate	0°C +50°C

TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m	NEXT dB	PS NEXT dB	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100 m)	PS.ACRF (dB/100 m)	Return Loss (dB/100m)
1	2.0	95	92	90	87	100	97	25
4	3.6	95	92	90	87	100	97	25
10	5.4	95	92	85	82	90	87	28
100	18.3	87	84	75	72	75	72	25
200	25.0	87	84	75	72	70	67	25
250	29.1	85	82	52	49	65	62	23
400	37.4	75	72	41	48	55	52	23
500	41.5	75	72	30	27	55	52	21

*Supplied cables meets Cat. 6A min. transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description	Standard Length
114-10008404X	Category 6A F/FTP 23 AWG 4 Pair Cable LSZH Dca	305 / 500 m

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