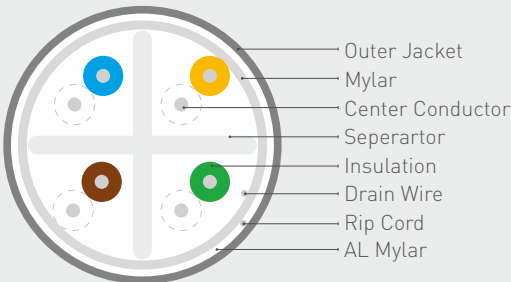
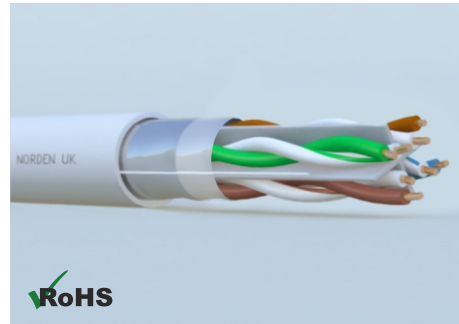


CATEGORY 6A F/UTP 4 PAIR EXTERNAL CABLE UV-LSZH

Norden Category 6A F/FTP Steel Wire Armoured cables exceed Category 6A / Class EA specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte and External 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

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	PE
Insulation Diameter	1.12±0.1 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Screening Material	Mylar+ AL/Mylar
Conductor Unit Lay-Up	Pairs
Overall Drain-Wire Material	Tinned copper 0.4mm
Overall Drain-Wire Construction	Solid
Total Number of Wires	8
Outer Jacket Material	UV-LSZH
Outer Jacket Thickness & Ex. Diameter	Yes
Rip Cord	0.55±0.05mm, 7.4±0.4 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



CATEGORY 6A F/UTP 4 PAIR EXTERNAL CABLE UV-LSZH

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Characteristic Impedance	100±15Ω(1-250Mhz) 100±22Ω(250-500Mhz)
Coupling Attenuation	55 dB min @ 30-100 MHz 55-20 Log (f/100) @100-500 MHz
DC Resistance	9.38 Ω/100m
DC Conductor Resistance Unbalance	Max.5%
Capacitance Unbalance	≤ 330 pF/100m
Unbalanced-to-ground capacitance	max.330 pf/100m
Velocity of Propagation	67%
Delay Skew	≤ 45ns/100m
Dielectric Strength	DC 1000V for 1min
Min. Insulation Resistance	5000MΩ•km
Transfer Impedance	1000 mΩ/m max @ 100 MHz
Max. Tensile Strength - Short Term	≥ 10.0MPa(Before Aging), ≥ 8.0MPa(After Aging)
Min. Bend Radius	8*OD-4*OD
Cold bend (-20±2°C×4h)	8×Cable OD. No visible cracks
Operating Temperature Range	-40°C to +70°C

TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables*

Freq. MHz	RL dB	ATT dB	NEXT dB	PHASE DELAY ns	PSNEXT dB	ELFEXT dB	PSELFEXT dB
1	20		74.3	570	72.3	68	65
4	23	3.8	65.3	552	63.3	56	53
8	24.5	5.3	60.8	546.7	58.8	49.9	46.9
10	25	5.9	59.3	545.4	57.3	48	45
16	25	7.5	56.2	543	54.2	43.9	40.9
20	25	8.4	54.8	542.1	52.8	42	39
25	24.3	9.4	53.3	541.2	51.3	40	37
31.25	23.6	10.5	51.9	540.4	49.9	38.1	35.1
62.5	21.5	15	47.4	538.6	45.4	32.1	29.1
100	20.1	19.1	44.3	537.6	42.3	28	25
200	18	27.6	39.8	536.5	37.8	22	19
250	17.3	31.1	38.3	536.3	36.3	20	17
300	16.8	34.3	37.1	536.1	35.1	18.5	15.5
500	15.2	45.3	33.8	535.6	31.8	14	11

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

ORDERING INFORMATION

Part Number	Description	Standard Length
114-2100Y204X	CAT6A F/UTP 4 Pair External Cable UV-LSZH	305 mtr

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