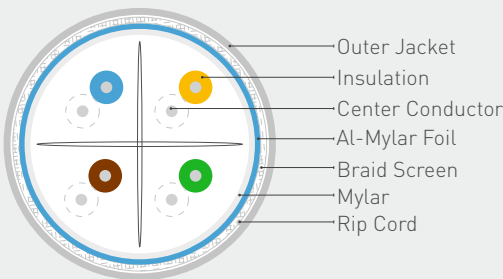
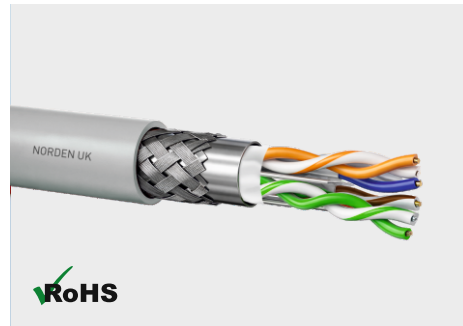


CATEGORY 6A SF/UTP 4 PAIR CABLE

Norden Category 6A SF/UTP cables exceed Category 6A / Class EA specifications. The cable is tested up to 500 MHz and is designed to support 10GBase-T Ethernet applications up to 100 m, while being fully compatible with 1000Base-T Gigabit Ethernet applications. Extremely high pair balance provides excellent EMC (Electromagnetic Compatibility) by minimizing radiation, maximizing noise immunity, and delivering superior alien crosstalk performance for cabling systems. The SF/UTP construction (overall braid and foil shield with unshielded twisted pairs) further enhances protection against external electromagnetic interference and improves alien crosstalk performance in high-density installations.



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
LSZH: IEC 60332-1, IEC 60754, IEC 61034-2

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid bare Copper
Conductor Size	23AWG
Conductor Construction	Solid
Insulation Material	Polyethylene (PE)
Insulation 1 Diameter	1.10±0.08mm
Insulation 2 Diameter	1.20±0.08 mm
Rip Cord	Yes
Colour Code	TIA/EIA 568-B
Foil Shield Material	Mylar+AL/Mylar
Conductor Unit Lay-Up	Pairs
Drain Wire	No
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper
Braid Coverage	60%
Total Number of Wires	8
Separator	Yes
Outer Jacket	LSZH
Outer Thickness & Diameter	0.60±0.05 mm, 7.8±0.4 mm
Outer Jacket Colour	Per Requirement

CATEGORY 6A SF/UTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100Ω ±15
Conductor Resistance	< 9.38Ω/100m
Mutual Capacitance	≤ 5600pF/100m
Resistance Unbalance	5%
Capacitance Unbalance	330pF/100m
Delay Skew	≤45nS
Min Bending Radius	8 x OD
Velocity of Propagation	67%
Dielectric Strength	DC 1000V 1min no broken
Min. Insulation Resistance	≥5000MΩ.km
Max. Tensile Strength Short Term	≤110N
Installation Temperature	-20°C to +60°C
Operation Temperature	-40°C to +75°C

TRANSMISSION PERFORMANCE

Freq. MHz	RL [≥dB]	ATT [≤dB]	NEXT [≥dB]	PHASE DELAY [≤nS]	PSNEXT [≥dB]	ELFEXT [≥dB]	PSELFEXT [≥dB]
1	20	-	74.3	570	72.3	67.8	64.8
4	23	4.1	65.3	552	63.3	55.8	52.8
8	24.5	5.7	60.8	547	58.8	49.7	46.7
10	25	6.4	59.3	545	57.3	47.8	44.8
16	25	8.1	56.2	543	54.2	43.7	40.7
20	25	9.1	54.8	542	52.8	41.8	38.8
25	24.3	10.2	53.3	541	51.3	39.8	36.8
31.25	23.6	11.4	51.9	540	49.9	37.9	34.9
62.5	21.5	16.2	47.4	539	45.4	31.9	28.9
100	20.1	20.6	44.3	538	42.3	27.8	24.8
200	18	29.8	39.8	537	37.8	21.8	18.8
250	17.3	33.6	38.3	536	36.3	19.8	16.8
300	16.8	37.1	37.1	536	35.1	18.3	15.3
400	15.9	43.3	35.3	536	33.3	15.8	12.8
500	15.2	48.9	33.8	536	31.8	13.8	10.8

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

ORDERING INFORMATION

Part Number	Description	Standard Length
114-10002604X	Category 6A SF/UTP 4 Pair Cable LSZH	305 mtr

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