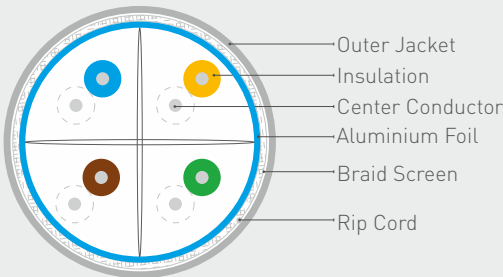
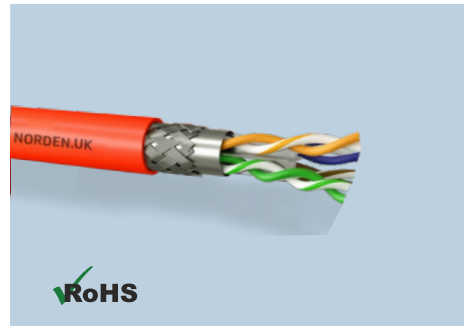


CATEGORY 6 SF/UTP 4 PAIR 23 AWG EXTERNAL CABLE - PE

Norden Category 6 SF/UTP cables exceed Category 6 / Class E specifications. It is tested to a 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m. Extremely high pair balance provides excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien cross-talk performance to cabling systems. SF/UTP (Overall shield and Foil) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications
 ANSI/TIA-568.2-D Category 6
 ISO/IEC-11801, Class E
 IEC 61156-5: Category 6
 LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Electrolytic Grade Copper
Conductor Size	23AWG, 0.555 ± 0.015 mm
Conductor Construction	Solid
Insulation Material	Polyethylene (HDPE)
Rip Cord	Yes
Drain Wire	N/A
Colour Code Per	TIA/EIA 568-B
Foil Shield Material	Aluminium Foil
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	ATC Braiding
Braid Coverage	45 % nom
Total Number of Wires	8
Cross Filler	HDPE
Outer Jacket	PE
Outer Diameter	7.30 ± 0.30 mm
Outer Jacket Colour	Black
Marking	At Every Meter



CATEGORY 6 SF/UTP 4 PAIR 23 AWG EXTERNAL CABLE - PE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω ±15
DC Resistance	93.8 @20°C Max
Max. Resistance Unbalance	5 %
Capacitance Unbalance Pair/Ground	330 pF/100 max.
Mutual Capacitance	5.6 nF/100 max.
Propagation Delay Skew	45 ns/100m max.
Velocity of Propagation	69 %
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 GΩ•km
Max. Tensile Strength Short Term	110 N
Transfer Impedance	1000 mΩ/m max @ 100 MHz
Min. Bend Radius	58 mm
Operating Temperature Range	-15 °C +70 °C

TRANSMISSION PERFORMANCE

Cat. 6 screened Pair Horizontal Cables*

Freq. MHz	ATT (dB/100m) max.	NEXT dB min	PS. NEXT (dB) min.	ACRF (dB@100 m) min.	PS. ACRF (dB@ 100 m) min	Return Loss (dB/100m)
1	2.1	65	62	63.3	60.3	19
4	4	63	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54	43.3	40.3	19
16	8	53.2	50.6	39.2	36.2	18
20	9	51.6	49	37.2	34.2	17.5
25	10.1	50	47.3	35.3	32.3	17
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14
100	21.3	39.9	37.1	23.3	20.3	12
200	31.5	34.8	31.9	17.2	14.2	9
250	35.9	33.1	30.2	15.3	12.3	8

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

ORDERING INFORMATION

Part Number	Description	Standard Length
113-20003604X	Category 6 SF/UTP 4 Pair 23 AWG External Cable-PE	305 mtr

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