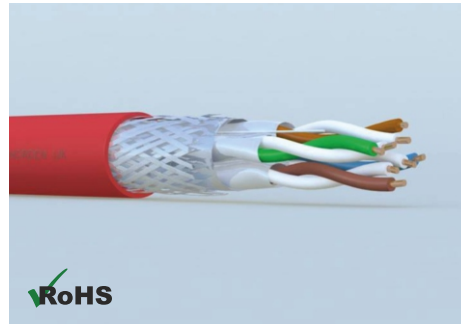
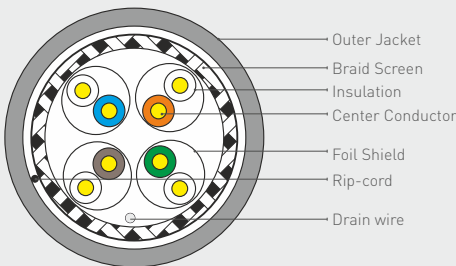


CATEGORY 6 S/FTP 4 PAIR EXTERNAL CABLE PE

Norden Category 6 S/FTP External cables exceed Category 6 / Class E specification. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications upto 100m. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance. S/FTP (Twisted Pair – Overall shield and Individual Foil shield) cabling systems are installed for improved Alien cross talk performance. Cable is Constructed with PE Insulation and Outer Jacket.



RoHS



COMPLIANCE

ISO / IEC 11801
ANSI/TIA-568.2-D

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.57 mm, 23 AWG
Conductor Construction	Solid
Insulation Material	Skin-foam-skin-PE
Insulation Diameter	1.33 mm
Conductor Unit Identification	Solid/Stripe
Rip Cord	Yes
Drain Wire	Yes
Colour Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminium / Mylar
Ind. Shield Design	100 % Coverage
Conductor Unit lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper, 0.10 mm
Braid Coverage	45 % nom.
Total Number of Wires	8
Outer Jacket	LDPE (Low Density Polyethylene)
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 7.5±0.5 mm
Outer Jacket Colour	Black
Marking	Per Requirement

CATEGORY 6 S/FTP 4 PAIR EXTERNAL CABLE PE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 $\Omega \pm 15$
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20 Log (f/100) @100-250 MHz
DC Resistance	93.8 Ω /km nom.
Max. Resistance Unbalance	5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Propagation Delay Skew	45 ns/100m max.
Tensile Strength before aging	10 Mpa
Elongation before aging	$\geq 350\%$
Aging period	100 °C x 24h x 10d
Elongation after aging	$\geq 300\%$
Min. Bend Radius	60 mm
Tensile Strength before aging	10 Mpa
Velocity of Propagation	74%
Dielectric Strength	1KV /min
Min. Insulation Resistance	5 G Ω •km
Transfer Impedance	≤ 1000 m Ω /m @100MHz
Operating Temperature	-30°C to +60°C

TRANSMISSION PERFORMANCE

Technical performance (100m)

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB	PHASE DELAY ns
1	-	74.3	72.3	20.0	67.8	64.8	570.00
4.0	3.78	65.3	63.3	23.0	55.8	52.8	552.00
8.0	5.32	60.8	58.8	24.5	49.7	46.7	546.73
10.0	5.95	59.3	57.3	25.0	47.8	44.8	545.38
16.0	7.55	56.2	54.2	25.0	43.7	40.7	543.00
20.0	8.47	54.8	52.8	25.0	41.8	38.8	542.05
25.0	9.51	53.3	51.3	24.3	39.8	36.8	541.20
31.25	10.67	51.9	49.9	23.6	37.9	34.9	540.44
62.5	15.38	47.7	45.4	21.5	31.9	28.9	538.55
100	19.80	44.3	42.3	20.1	27.8	24.8	537.60
200	28.98	39.8	37.8	18.0	21.8	18.8	536.54
250	32.85	38.3	36.3	17.3	19.8	16.8	536.27

ORDERING INFORMATION

Part Number	Description	Standard Length
113-21003504X	Category 6 S/FTP 4 Pair External Cable PE	305 mtr

PACKING INFORMATION

Part Number	Packing Mode	N.W [kg]	G.W [kg]	Dimension [mm]
113-21003504X	Plywood Reel/Ctn	17.1	18.7	420x420x260