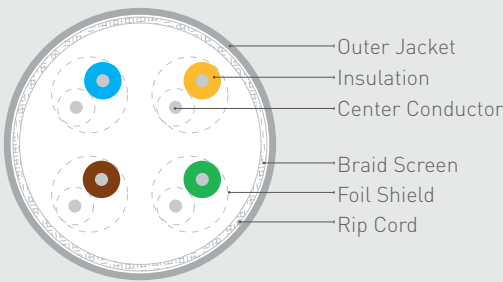
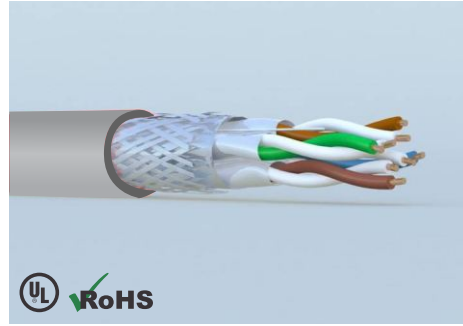


CATEGORY 5E S/FTP 4 PAIR CABLE

Norden Category 5E S/FTP cables exceed Category 5E/ Class D specification. It is tested to 100 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 to F/FTP (Foiled Twisted Pair) cabling systems. S/FTP (Twisted Pair – Overall shield and Individual Foil shield) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications
 ANSI/TIA-568-C.2 Category 5e
 ISO/IEC-11801, Class D
 IEC 61156-5: Category 5e

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.51 mm, 24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.0±0.05 mm
Conductor Unit Identification	Solid/Stripe
Rip Cord	No
Drain Wire	N/A
Colour Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminium Foil
Ind. Shield Design	100 % Coverage
Conductor Unit lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper, 0.11 mm
Braid Coverage	45 % nom.
Total Number of Wires	8
Outer Jacket	PVC
Outer Jacket Thickness & Ex. Diameter	0.70±0.05 mm, 6.7±0.3 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 5E S/FTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω ±15
Coupling Attenuation	85 dB min @ 30-100 MHz
DC Resistance	93.8 Ω/km nom.
Max. Resistance Unbalance	2.5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Propagation Delay Skew	35 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
Min. Bend Radius	8xD mm
Operating Temperature Range	-10 °C +60 °C

TRANSMISSION PERFORMANCE

Cat. 5e screened Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	2.0	65.3	62.3	20.0	63.8	60.8
4	4.1	56.3	53.3	23.0	51.8	48.8
10	6.5	50.3	47.3	25.0	43.8	40.8
20	9.3	45.8	42.8	25.0	37.8	34.8
31.25	11.7	42.9	39.9	23.6	33.9	30.9
62.5	17.0	38.4	35.4	21.5	27.9	24.9
100	22.0	35.3	32.3	20.1	23.8	20.8

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

ORDERING INFORMATION

Part Number	Description	Standard Length
112-11001504X	Category 5e S/FTP 4 Pair Cable PVC	305 mtr

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

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
112-11001504X	Plywood Reel/Ctn	17.1	18.7	420 x 420 x 260

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