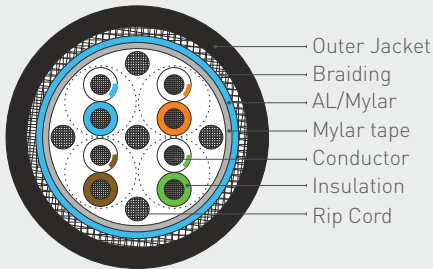
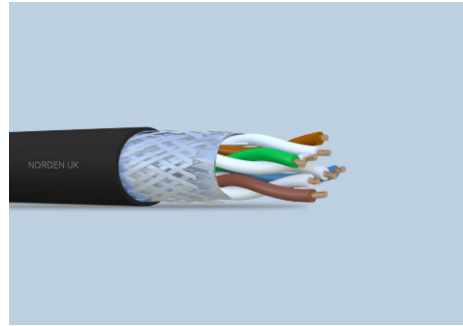


# CATEGORY 5E SF/UTP 24AWG 4 PAIR INDUSTRIAL CABLE

Norden Category 5e SF/UTP industrial cables exceed Category 5e / Class D specification. It is tested to 100 MHz frequency range and designed to support Gigabit 1000Base-T applications upto 100m. The cable has XL-LSZH jacket with High oil resistance, halogen-free, non-toxic, high flame retardant properties. By design, Norden cables are manufactured to the highest quality standards, design requirements and materials to ensure that every box provides significant margin over ANSI/TIA-568.2-D specifications for NEXT, Power Sum NEXT and Insertion Loss across the entire channel.



## COMPLIANCE

ANSI/TIA-568.2-D Category 5e  
 ISO/IEC-11801, Class D  
 IEC 61156-5: Category 5e  
 EN 50267-2-1, EN50267-2-2, EN 45545-2,  
 EN 60332-3-25, EN 60332-1-2, EN 61034-2, EN 50305 9.2  
 IEEE 802.af, IEEE 802.3at for PoE applications

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Tinned copper
Conductor Size	24 AWG
Conductor Diameter	19x0.12 mm
Conductor Construction	Stranded
Insulation Material	High Density PE
Insulation O.D.	1.13±0.05mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Wrapping	Mylar tape
Overall Foil	AL/Mylar tape
Overall Shield	Tinned copper braiding
Braid Coverage	≥85%
Outer Jacket Material	XL-LSZH
Outer Jacket Thickness	0.80mm
Overall Diameter	7.10±0.3mm
Outer Jacket Colour	Per Requirement



# CATEGORY 5E SF/UTP 24AWG 4 PAIR INDUSTRIAL CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω ±15
Max. DC Resistance	≤168Ω/km @ 20 °C
Nom. Capacitance	52pF/m @ 1KHz
Unbalanced-to-ground capacitance	≤1600pF/km @1kHz (IEC61156-6)
Velocity of propagation	Nom. 66%
Delay skew	45ns/100m @4MHz-100MHz (IEC61156-6)
Insulation resistance	≥5000MΩ*km (IEC61156-6)
Dielectric Strength	1000V DC for 1min
Operating temperature	-40°C to 90°C
Installation temperature	-20°C to 60°C
Oil resistance	IRM902,100°C×72h, IRM903,70°C×168h
Acid and alkali resistance	(23±2)°C×168h (EN 50264-1 EM104)
Min. bending radius	≥4xOD(Fixed installation) ≥8xOD(Occasionally moving)
Cold bend test	-(40±2)°C×4h, No crack

## TRANSMISSION PERFORMANCE

Cat. 5e Screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ACR-F dB	PS ACR-F dB
1.0	2.1	60.0	57.0	19.0	58.6	55.6
4.0	3.9	54.8	51.8	19.0	46.6	43.6
8.0	5.5	50.0	47.0	19.0	40.6	37.5
10.0	6.2	48.5	45.5	19.0	38.6	35.6
16.0	7.9	45.2	42.2	19.0	34.5	31.5
20.0	8.9	43.7	40.7	19.0	32.8	29.6
25.0	10.0	42.1	39.1	18.0	30.7	27.7
31.25	11.2	40.5	37.5	17.1	28.7	25.7
62.5	16.2	35.7	32.7	14.1	22.7	19.7
100.0	21.0	32.3	29.3	12.0	18.6	15.6

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

## ORDERING INFORMATION

Part Number	Description
118-6070L604X	Category 5E SF/UTP 24AWG 4 Pair Industrial Cable XL-LSZH

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)
118-6070L604X	Pulley Box	17.1	18.7	420 x 420 x 260