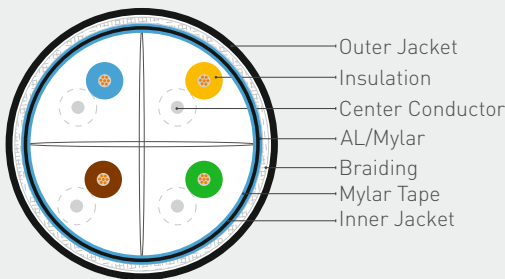
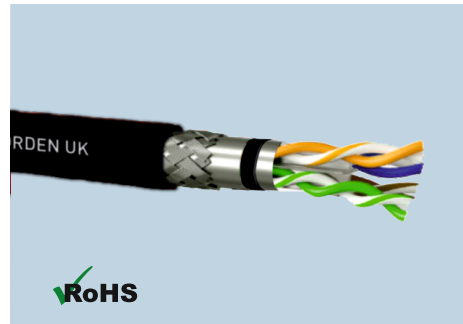


CATEGORY 6 SF/UTP 4 PAIR 26AWG DOUBLE JACKET HEAT & OIL RESISTANT CABLE



Cat 6 SF/UTP (Shielded Foiled Unshielded Twisted Pair) cable is designed for high-performance data transmission in harsh environments, featuring heat and oil resistance for durability in industrial settings. With frequency support of up to 250 MHz, it is designed to support Gigabit 1000Base-T and 1000Base-TX applications up to 100 meters. The overall foil shield minimizes electromagnetic interference and crosstalk, ensuring data integrity. This cable is ideal for use in manufacturing plants and automotive environments, meeting industry standards for performance and safety.



COMPLIANCE

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

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Stranded tinned copper
Conductor Size	26 AWG ,19*0.10mm
Conductor Construction	Stranded
Insulation Material	HDPE
Insulation Diameter	0.98 ± 0.05 mm
Colour Code	TIA/EIA 568-B
Filler	PE cross separator
Inner jacket	LSZH
Inner jacket Diameter	5.7 mm
Colour	Black
Overall Screen	Al/Mylar
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper Braiding
Braid Coverage	85% nom
Total Number of Wires	8
Outer Jacket	PUR
Outer Diameter	7.80± 0.30 mm
Marking	At Every Meter



CATEGORY 6 SF/UTP 4 PAIR 26AWG DOUBLE JACKET HEAT & OIL RESISTANT CABLE



ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω
DC Resistance	≤140 Ω/km
Max. Resistance Unbalance	≤2.0 % within a pair, ≤5.0 % between pairs
Capacitance Unbalance Pair/Ground	≤1600 pF/km at 800 Hz or 1000 Hz
Mutual Capacitance	55pF/m nom.
Propagation Delay Skew	≤25 ns/100m
Velocity of Propagation	65%
Dielectric Strength	DC 1.0 kV for 1 min.
Min. Insulation Resistance	≥5000 MΩ•km
Max. Tensile Strength Short Term	49 N
Transfer Impedance	10 MΩ/m @ 1 MHz
Min. Bend Radius	5 x OD (Fixed), 8 x OD (Moving)
Operating Temperature Range	-40°C to +80 °C (Fixed), -20°C to +60 °C (Moving)

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	3	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

ORDERING INFORMATION

Part Number	Description	Standard Length
122-60T2U604X	CATEGORY 6 SF/UTP 4 PAIR 26AWG DOUBLE JACKET HEAT & OIL RESISTANT CABLE	305 mtr

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