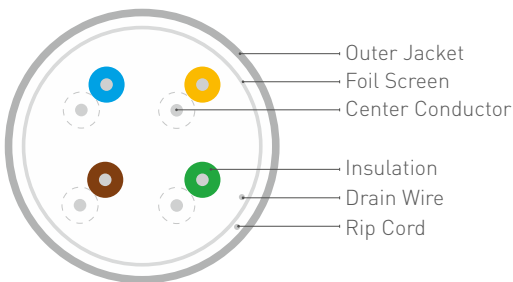
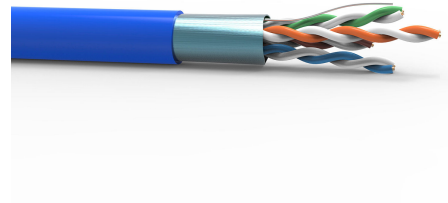


CATEGORY 5E F/UTP 4 PAIR CABLE

Aston Category 5E F/UTP 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. Norden Category 5E F/UTP cables are UL listed CM and standard packing are in 305m easy pull out boxes. By design, Aston 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

IEEE 802.af, IEEE 802.3at for PoE applications
ANSI/TIA-568.2-D.2 Category 5e
ISO/IEC-11801, Class D
IEC 61156-5: Category 5e
LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable
Conductor Material	Bare Copper
Conductor Size	24 AWG
Conductor Diameter	0.51 mm
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation O.D.	1.03 mm nom.
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Screening Material	Aluminium/Polyster foil
Screening Design	100 % Coverage
Conductor Unit Lay-Up	Pairs
Overall Drain-Wire Material	Tinned Copper
Overall Drain-Wire Construction	Solid
Outer Jacket	LSZH (Low Smoke Zero Halogen) or PVC
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 6.3±0.3 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 5E F/UTP 4 PAIR CABLE



ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω±15
Coupling Attenuation	40 dB min @ 30-100 MHz
Max. DC Resistance	93 Ω/km @ 20 °C
Max. Resistance Unbalance	5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Velocity of Propagation	69 %
Propagation Delay Skew	25 ns/10m max.
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 GΩ•km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	40 mm
Operating Temperature Range	-30 °C +60 °C

TRANSMISSION PERFORMANCE

Cat. 5e Un-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	58.6	55.6
4	4.1	56.3	53.3	23.0	46.6	43.6
10	6.5	50.3	47.3	25.0	38.6	35.6
20	9.3	45.8	42.8	25.0	32.6	29.6
31.25	11.7	52.7	39.9	23.6	28.7	25.7
60	17.0	38.4	35.4	21.5	22.7	19.7
100	22.0	35.3	32.3	20.1	18.6	15.6

ORDERING INFORMATION

Part Number	Description	Standard Length
C5-F2401PC3X	Category 5E F/UTP 4 Pair Cable PVC	305 mtr
C5-F2401LS3X	Category 5E F/UTP 4 Pair Cable LSZH	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)
C5-F2401PC3X	Pulley Box	11.2	11.8	380 x 380 x 210
C5-F2401LS3X	Pulley Box	11.5	12.1	380 x 380 x 210

