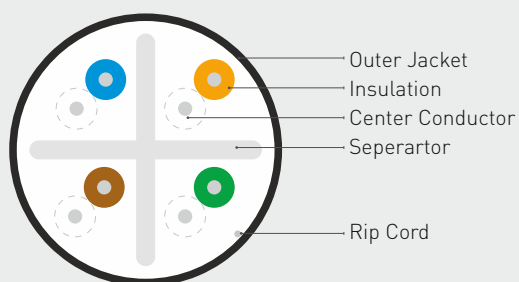


CATEGORY 6 SF/UTP 4 PAIRS CABLE



Aston Category 6 UTP 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 to UTP (Unshielded Twisted Pair) cabling systems. These external cables are ideal for industrial use and in direct sunlight.



COMPLIANCE

IEEE 802.3bt for PoE applications
IEEE 802.af, IEEE 802.3at for PoE applications
ANSI/TIA-568.2-D Category 6
ISO/IEC-11801, Class E
IEC 61156-5: Category 6
LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Diameter	0.57 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
Braiding shielding	Al braiding shielding
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, 7.2±0.3 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 6 SF/UTP 4 PAIRS CABLE



ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω $\pm$ 15
Coupling Attenuation	40 dB min @ 30-100 MHz 40-20 Log (f/100) @100-300 MHz
DC Resistance	73 Ω /km norm.
Max. Resistance Unbalance	4 %
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 G Ω •km
Max.Tensile Strength - Short Term	110 N
Min. Bend Radius	53.6 mm
Operating Temperature Range	-10 °C +75 °C

TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	2.1	74.3	72.3	20.0	67.8	64.8
4	3.8	65.3	63.3	23.0	56.0	53.0
10	6.0	59.3	57.3	25.0	48.0	45.0
20	8.5	54.8	52.8	25.0	42.0	39.0
31.25	10.0	51.9	49.9	23.6	38.1	35.1
100	19.9	44.3	42.3	20.1	28.0	25.0
160	25.9	41.2	39.2	18.7	23.0	21.0
200	29.0	39.8	37.8	18.0	22.0	19.0
250	33.0	38.3	36.3	17.3	20.0	17.0

*Supplied cables meets Cat. 6 min. transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description	Standard Length
C6-SF2301PC3X	Category 6 SF/UTP 4 Pair External Cable PE	305 mtr
C6-SF2301LS3X	Category 6 SF/UTP 4 Pair External 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)
C6-SF2301PC3X	Plywood Reel/Ctn	14.5	15.4	315 x 315 x 295
C6-SF2301LS3X	Plywood Reel/Ctn	14.6	15.6	315 x 315 x 295