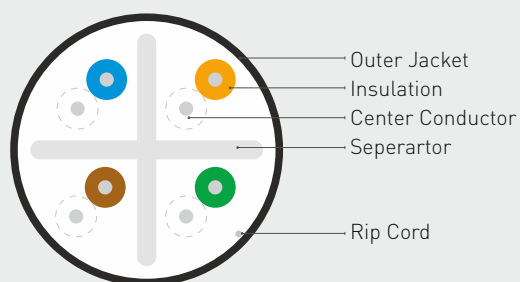
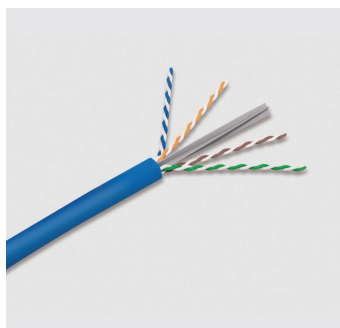


CATEGORY 6A U/UTP 23 AWG 4 PAIR CMR RATED FRPVC JACKET CABLE



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 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D Category 6A ISO/
IEC-11801, 2nd Edition Class EA IEC
61156-5:2002 Category 6A

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.57 mm, 23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.02 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Overall Drain-Wire Material	N/A
Overall Drain-Wire Size	N/A
Overall Drain-Wire Construction	N/A
Outer Jacket	LSZH (Low Smoke Zero Halogen) or PE
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 6.3±0.4 mm
Outer Jacket Colour	Black or Per Requirement
Marking	Per Requirement

CATEGORY 6A U/UTP 23 AWG 4 PAIR CMR RATED FRPVC JACKET CABLE



ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 $\Omega \pm 15$
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20 Log (f/100) @100-300 MHz
DC Resistance	73 Ω /km norm.
Max. Resistance Unbalance	4 %
Capacitance	45 pF/m max.
Capacitance Unbalance	1500 pF/m max.
Propagation Delay Skew	25 ns/100m max.
Velocity of Propagation	67 %
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. 6A Un-screened Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS dB	NEXT dB	RL dB	ACR dB	ELFEXT dB	PSELFEXT dB
1	2.1	74.3	72.3		20.0	84.6	67.8	64.8
4	3.8	65.3	63.3		23.0	75.6	55.8	52.0
10	5.9	59.3	57.3		25.0	71.9	47.8	44.2
20	8.4	54.8	52.8		25.0	62.4	41.8	38.5
25	9.4	53.3	51.3		24.3	58.3	39.8	37.5
31.25	10.5	51.9	49.9		23.6	47.3	37.9	35.0
62.5	15.0	47.4	45.4		21.5	38.4	31.9	29.0
100	19.1	44.3	42.3		20.1	31.6	27.8	24.2
200	27.6	39.8	37.8		18.0	26.6	21.8	19.6
250	31.1	38.3	36.3		17.3	20.3	19.8	17.5
300	34.3	37.1	35.1		16.8	13.0	18.3	16.2
500	45.3	33.8	31.8		15.2	9.8	13.8	12.5

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

ORDERING INFORMATION

Part Number	Description	Standard Length
C6A-2301CMR3X	Category 6A U/UTP 23 AWG 4 Pair CMR rated FRPVC Jacket Cable	305 mtr

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