

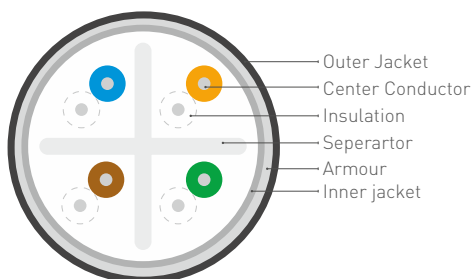
CAT 6 U/UTP 24AWG DOUBLE JACKET STEEL TAPE ARMORED CABLE



PRODUCT OVERVIEW

Accell Category 6 U/UTP armored cables exceed Category 6 /Class E specification. It is tested to 250MHz frequency range and designed to support 1000Base-T and 1000Base-Tx applications to full 100m. Extremely high pair-balance providing excellent EMC Compatibility, minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to U/UTP(Unshielded Twisted Pair) cabling systems. Cat 6 UTP armored Cable Consists of PE Insulated 23AWG Solid Bare Annealed Copper Conductors, twisted 4 pair stranded over Cross PE Separator filler, ECCS tape Armour, black Inner and Outer high density Polyethylene Sheath.

CABLE DESIGN



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568-C.2:2009 Category 6
ISO/IEC-11801, 2nd Edition Class E
IEC 61156-5:2002 Category 6

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Annealed Bare Copper
Conductor Size	24 AWG
Conductor Construction	Solid
Insulation Material	HDPE
Insulation O.D.	1.05 mm nom.
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Separator	PE
Inner Jacket Material	HDPE
Armour	ECCS Tape
Armour Thickness	≥0.125mm
Outer Jacket Material	HDPE
Outer jacket thickness & Ex. Diameter	10.7±0.4 mm
Outer Jacket Colour	Per requirement

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ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor Resistance @20°C	Max. 93.8 Ω/KM
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	Max. 56 nF/KM
Insulation Resistance	min. 5000 MΩ.km
High voltage	2.5 Kv DC/1 min
Capacitance Earth Unbalance	Max. 3300 pF/km
Propagation Delay @ 1, 10, 100 &250 Mhz	Max. 570, 545,538 & 536ns/100 m
Propagation DeLay Skew 1 – 250 Mhz	Max. 45 ns/100 m
Characteristic Impedance (1-250 Mhz)	100 ± 15Ω
Bending radius	20x Diameter(min.)
Pulling Force	11.5 kgs(max.)
Temperature Range	-20°C up to +60°C

TRANSMISSION PERFORMANCE

Cat. 6A 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	65.0	62.0	19.0	63.3	60.3
4	4.0	63.0	60.5	19.0	51.2	48.2
8	5.7	58.2	55.6	19.0	45.2	42.2
10	6.3	56.6	54.0	19.0	43.3	40.3
16	8.0	53.2	50.6	18.0	39.2	36.2
20	9.0	51.6	49.0	17.5	37.2	34.2
25	10.1	50.0	47.3	17.0	35.3	32.3
31.25	11.4	48.4	45.7	16.5	33.4	30.4
62.5	16.5	43.4	40.6	14.0	27.3	24.3
100	21.3	39.9	37.1	12.0	23.3	20.3
200	31.5	34.8	31.9	9.8	17.2	14.2
250	35.9	33.1	30.2	8.0	15.3	12.3

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

ORDERING INFORMATION

Part Number	Description	Standard Length
ADC211404X	Cat 6 U/UTP 24AWG Double jacket Steel Tape Armored Cable PE	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)
ADC211404X	Plywood Reel/Ctn	22.2	24.3	340 x 340 x 340