

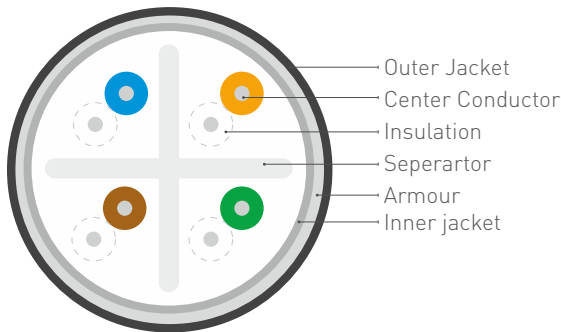
CAT 6 U/UTP DOUBLE JACKET STEEL TAPE ARMoured EXTERNAL CABLE PVC/PE



PRODUCT OVERVIEW

Accell Category 6 U/UTP armored cables exceed Category 6 /ClassE 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 (Electro Magnetic 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, FR PVC Inner sheath and PE (UV Stabilized) Outer 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	Solid Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation O.D	1.05 mm nom.
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Separator	PE
Inner Jacket Material	FR PVC
Armour	ECCS Tape
Armour Thickness	>0.125 mm
Outer Jacket Material	PE (UV Stabilized)
Outer Jacket Thickness & Ex. Diameter	1.5mm, 11.0±0.5 mm
Outer Jacket Colour	Black

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ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor DC Resistance @20°C	Max. 93.8Ω/1000M
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	Max. 56 nF/1000M
Insulation Resistance	Min. 5000 MΩ.km
High voltage	2.5 Kv DC/1 min
Capacitance Earth Unbalance	Max. 3300 pF/1000M
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	20 x Diameter (min.)
Pulling Force	11.5 kgs(max.)
Temperature Range	-20°C up to +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
1.0	2.1	65.0	62.0	19.0	63.3	60.3
4.0	4.0	63.0	60.5	19.0	51.2	48.2
8.0	5.7	58.2	55.6	19.0	45.2	42.2
10.0	6.3	56.6	54.0	19.0	43.3	40.3
16.0	8.0	53.2	50.6	18.0	39.2	36.2
20.0	9.0	51.6	49.0	17.5	37.2	34.2
25.0	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	12.00	23.3	20.3
200	31.5	34.8	37.9	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
ADC221604X	Category 6 U/UTP Double Jacket Steel Tape Armoured External Cable PVC/PE	305 mtr

X: BK(Black)

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
ADC221604X	Plywood Reel/Ctn	21.2	23.3	340 x 340x 340