

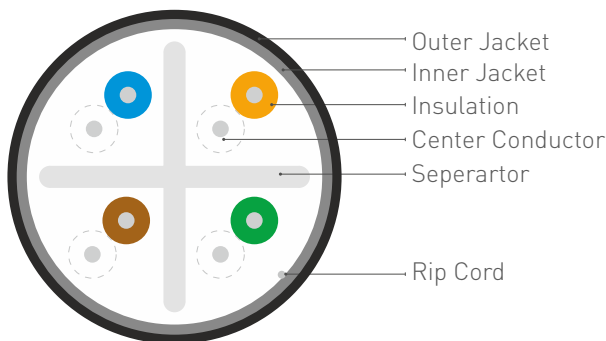
CAT 6 U/UTP DOUBLE JACKET EXTERNAL CABLE PVC/PE



PRODUCT OVERVIEW

Accell Category 6 UTP double jacket 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.

CABLE DESIGN



COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications
ANSI/TIA-568-C.2 Category 6
ISO/IEC-11801, Class E
IEC 61156-5: Category 6
LSZH: IEC 60332-1, IEC 60754, IEC 61034

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.0 ± 0.05mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Inner Jacket	PVC
Outer Jacket	PE
Outer Jacket Thickness & Ex. Diameter	0.50 mm, 7.2 ± 0.5 mm
Outer Jacket Colour	Black or Per Requirement
Marking	Per Requirement

CAT 6 U/UTP DOUBLE JACKET EXTERNAL CABLE PVC/PE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor DC Resistance @20°C	Max. 9.38Ω/100M
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	Max. 5.6 nF/100M
Insulation Resistance	Min. 5000 MΩ.km
Dielectric Strength	1.7KV RMS for 2 sec.
Capacitance Earth Unbalance	Max. 330 pF/100M
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
Nominal velocity of propagation	69 %
Bending radius	8 x Overall diameter (min.)
Breaking strength	400 N (max.)
Rated Voltage	150VAC
Characteristic Impedance (1-250 MHZ)	100 ± 15Ω
Temperature Range	-20°C up to +70°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	TCL dB	ELTCL dB
1.0	2.1	74.3	72.3	20.0	67.8	64.8	40.0	35.0
4.0	4.1	65.3	63.3	23.0	55.8	52.8	40.0	23.0
8.0	5.8	60.8	58.8	24.5	49.7	46.7	40.0	16.9
10.0	6.5	59.3	57.3	25.0	47.8	44.8	40.0	15.0
16.0	8.2	56.2	54.2	25.0	43.7	40.7	38.0	10.9
20.0	9.3	54.8	52.8	25.0	41.8	38.8	37.0	9.0
25.0	10.4	53.3	51.3	24.3	39.8	36.8	36.0	7.0
31.25	11.7	51.9	49.9	23.6	37.9	34.9	35.1	5.5 @
62.5	17.0	47.4	45.4	21.5	31.9	28.9	32.0	30MHz
100	22.0	44.3	42.3	20.1	27.8	24.8	30.0	
200	32.4	39.8	37.8	18.0	21.8	18.8	27.0	
250	36.9	38.3	36.3	17.3	19.8	16.8	26.0	

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

ORDERING INFORMATION

Part Number	Description	Standard Length
ADC221504X	Cat 6 U/UTP Double Jacket Cable PVC/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)
ADC221504X	Plywood Reel/Ctn	19.1	20.0	380 x 380 x 260