

CATEGORY 6 U/UTP 24 AWG 4 PAIR CABLE

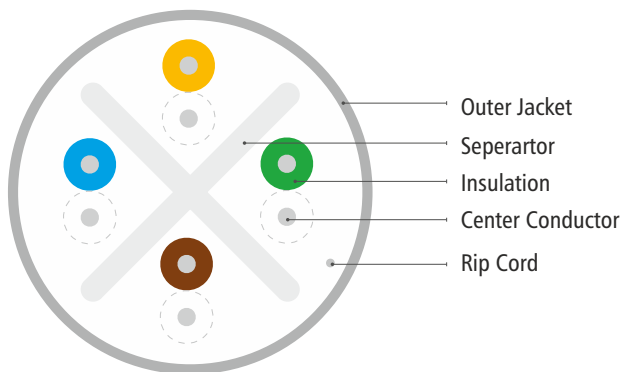


PRODUCT OVERVIEW

Accell 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 up to 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.

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	Bare Copper
Conductor Size	24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	0.93 ± 0.05 mm
Outer Jacket	PVC/LSZH
Outer jacket Thickness & Ex. Diameter	0.54±0.05 mm, 6.0±0.2 mm
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes

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ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100 $\Omega \pm 15$
DC Resistance	98.3 $\Omega/\text{km norm.}$
Max. Resistance Unbalance	2.5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Propagation Delay Skew	35 ns/100m max.
Velocity of Propagation	69 %
Min. Insulation Resistance	5 $\text{G}\Omega \cdot \text{km}$
Max.Tensile Strength - Short Term	110 N
Min. Bend Radius	54 mm
Operating Temperature Range	-10 °C +65 °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	2.0	74.3	72.3	20.0	67.8	64.8
4	3.8	65.3	73.3	23.0	55.8	52.8
10	6.0	59.3	57.3	25.0	47.8	44.8
20	8.5	54.3	52.8	25.0	41.8	38.8
100	19.8	44.3	42.3	20.1	27.8	24.8
200	29.0	39.8	37.8	18.0	21.8	18.8
250	32.8	38.3	36.3	17.3	19.8	16.8

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

ORDERING INFORMATION

Part Number	Description	Standard Length
ADC211104X	Category 6 U/UTP 24 AWG 4 Pair Cable PVC	305 mtr
ADC211204X	Category 6 U/UTP 24 AWG 4 Pair 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)
ADC211104X	Pulley Box	12.1	13.0	400 x 400 x 220
ADC211204X	Pulley Box	12.3	13.2	400 x 400 x 220