

ECS Cat.6A U/UTP Dca

Features

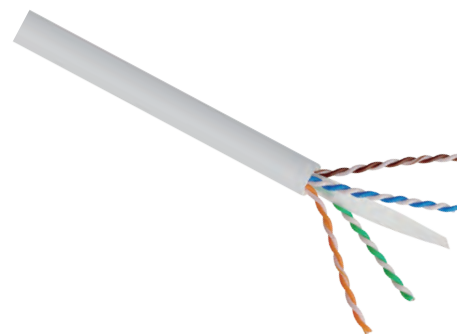
- Flame tested to EN50399 CPR Dca in CPR Lab by FTT
- Flame tested to UL444 CMR
- Transmission tested to 500MHz ,according to ANSI/TIA-568.2-D, ISO 11801 class EA, Cat.6A standard
- POE++ tested to IEEE 802.3bt 100W ,Bundle size 37 pcs
- Passed alien crosstalk test

Applications

- 10BASE-T Ethernet
- 100BASE-T (Fast Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 10GBASE-T (10 Gigabit Ethernet)



Alien Crosstalk Test

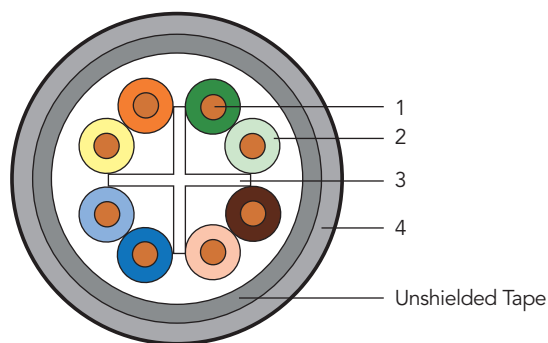


Construction

Construction features

1. Conductor	Annealed Bare Copper
2. Insulation	Polyethylene / Foamed PE
3. Separator	Polyolefin
4. Outer Jacket	LSZH

Colour 



Cable Code	Standard	Conductor	AWG	OD (mm)	Outer Jacket	Flame Retardant	Packaging
UTP6A-NG/KART	ISO/TIA	Solid	23	7.2+/-0.5mm	LSZH	EN50399 Dca,s2,d2,a1	Reel in Box(305m)



Technical data



OPERATING VOLTAGE

60V acc. to EN 50288



TEMPERATURE (operative)

STATIC 0 °C ~ 50 °C
DYNAMIC -20 °C ~ 60 °C



TEST VOLTAGE

DC 1kV / 1min.



INSULATION RESISTANCE

min. 5000 MΩ/km at 500V/20°C



DC RESISTANCE

max. 9.38 Ω / 100m at 20°C



MUTUAL CAPACITANCE

max. 5.6 nf / 100 m at 1 kHz



CHARACTERISTIC IMPEDANCE

100 Ω



VELOCITY OF PROPAGATION

nom. 67%



CAPACITANCE UNBALANCE

max. 160pf / 100m at 1 kHz
max. 330pf/ 100m at 1 kHz (GBQ2024)



RESISTANCE UNBALANCE

max. 2% at 20°C



BENDING RADIUS

≥ 4xOD without load
≥ 8xOD with load

Transmission Performance according to ANSI/TIA-568.2-D Cat.6A (at 20°C)

Frequency (MHz)	Fitted Impedance (Ω)	Insertion Loss (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (dB) Min.	PSACRF (dB) Min.	Return Loss (dB) Min.	Propagation Delay (ns) Max.	Delay Skew (ns) Max.	PSANEXT (dB) Min.	PSAACRF (dB) Min.
1	100 ±15	2.1	74.3	72.3	67.8	64.8	20.0	570	45	67.0	67.0
4		3.8	65.3	63.3	55.8	52.8	23.0	552		67.0	66.2
8		5.3	60.8	58.8	49.7	46.7	24.5	547		67.0	60.1
10		5.9	59.3	57.3	47.8	44.8	25.0	545		67.0	58.2
16		7.5	56.2	54.2	43.7	40.7	25.0	543		67.0	54.1
20		8.4	54.8	52.8	41.8	38.8	25.0	542		67.0	52.2
25		9.4	53.3	51.3	39.8	36.8	24.3	541		67.0	50.2
100		19.1	44.3	42.3	27.8	24.8	20.1	538		62.5	38.2
250		31.1	38.3	36.3	19.8	16.8	17.3	536		56.5	30.2
500		45.3	33.8	31.8	13.8	10.8	15.2	536		52.0	24.2