

CAT 6 4-PAIR UTP 23AWG JELLY FILLED OSP CABLE

Description

CAT6 UTP consist of 4 pairs of 23AWG solid bare copper conductors with OSP rated, horizontal cable insulated with High Density Polyethylene (HDPE), gel filled, ripcord for easily split the outer shielding PE outer jacket. Each pair is precisely twisted to minimized cross talk between each pairs with a star filler separator.

Application

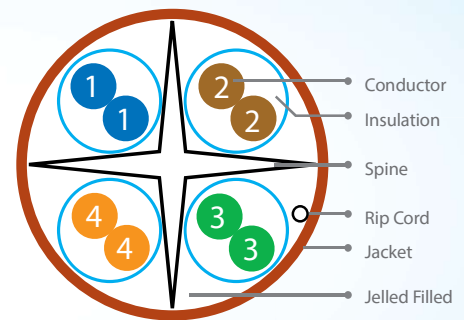
- 100 Base-T4
- 100 Base-TX
- 1000Base-T (Gigabit Ethernet)

Standard

- ANSI/TIA-568.2-D
- ISO 11801 Class E

Features

- 23 AWG Solid Copper Conductors
- PE Outer Jacket
- Jelly filled
- Ripcord
- Flammability test: CMX/CMR



Physical Characteristics

Item	Specification & Design		Diameter mm
Conductor	Material	Soft annealed care copper wire	0.57±0.005
	Composing	1/0.57 wire	
Insulation	Material	HDPE(high-density polyethylene)	1.10±0.10
	Color	White/Blue, Blue White/Orange, Orange	
	Color	White/Green, Green White/Brown, Brown	
	Nominal wall	0.25mm	
Twisted pair	Lay length	≤30mm	2.28
Framework	Material	PE	(5.0*0.45)±0.5
Cable core	Composing	4 number of Twisted pair stranded together to form the main core.	5.3±0.5
	Detail	As described in part 5(structure drawing)	
	Lay length	≤120mm	
Insulation	Jelly filled	6.5±0.5	
	Material	PE	
	There is a rip cord under the sheath		
	Nominal	Wall thickness of sheath: 0.60mm	

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Transmission Characteristics

Frequency (MHz)	RL \geq dB/100m	Attenuation \leq dB/100m	NEXT \geq dB/100m	PSNEXT \geq dB/100m	ACR-F \geq dB/100m
1.00	20.0	2.0	74.3	72.3	67.8
4.00	23.0	3.8	65.3	63.3	55.8
10.00	25.0	6.0	59.3	57.3	47.8
16.00	25.0	7.6	56.2	54.2	43.7
20.00	25.0	8.5	54.8	52.8	41.8
31.25	23.6	10.7	51.9	49.9	37.9
62.50	21.5	15.4	47.4	45.4	31.9
100.00	20.1	19.8	44.3	42.3	27.8
200.00	18.0	29.0	39.8	37.8	21.8
250.00	17.3	32.8	38.3	36.3	19.8

Descriptions	Parameter
Conductor resistance	$\leq 9.38\Omega/100m@20^{\circ}C$
Insulation resistance	$\geq 5000M\Omega Km(DC500V \text{ Charged } 1Min)$
Voltage endurance	DC 1500V/min
Mutual capacitance	$\leq 5.6nF/100m@20^{\circ}C, 1kHz$
DC resistance unbalance	$\leq 5\%@20^{\circ}C$
Capacitance unbalance to ground	$\leq 330pF/100m@20^{\circ}C, 1kHz$

Ordering information

Part No.	Description
RCD-60U2704-4yx	Cat6 4 pair UTP 23AWG jelly filled outdoor OSP cable, PE jacket, 305m/Drum
RCD-60U2704-2yx	Cat6 4 pair UTP 23AWG jelly filled outdoor OSP cable, PE jacket, 500m/Drum

*y = 0 - blue, 1 - orange, 2 - aqua, 3 - Sky Blue, 4 - grey, 5 - white, 6 - red, 7 - black, 8 - yellow, 9 - purple.

*x = A, K, N