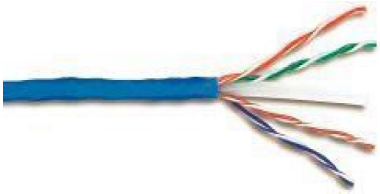
CAT6 4PR 24AWG UTP CM Cable



Description

Cat 6 UTP 24AWG cable includes of 4 pair designed to give channel performance exceeding Category 6/Class E channel specifications. The Cable is used for transmission of high speed data, digital and analogue voice and video (RGB) signals on LAN. It supports Gigabit Ethernet (1000 base) standard and operates at bandwidth up to 250MHz.

Product Specification

Product	**Copper Cable**
Electrical Characteristics	
Conductor Resistance	93.8 Ω/km (@ 20°C)
Mutual Capacitance	≤ 5.6 nF/100m (@1kHz)
Resistance Unbalance	5% (@ 20°C)
Capacitance Unbalance	Max. 330 pF/100m
Insulation Resistance	100 MΩ-km
Nominal velocity of propagation	69%
Delay Skew	45 ns/100m
Mechanical Characteristics	
Conductor Type	24 Awg
Outer Jacket Material	PVC
Cable Dimension	5.8 ± 0.2 mm

Transmission Performance Characteristics

Frequency	**Attenuation**	**NEXT**	**PS NEXT**	**EL FEXT**	**PS ELFEXT**	**Return Loss**	**ACR**	**Propagation Delay**
(MHz)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB Min)	(dB Min)	(ns/100m Max)
1	2.0	74.3	72.3	67.8	64.8	20.0	72.3	570.0
4	3.8	65.3	63.3	55.8	52.8	23.0	61.5	552.0
8	5.3	60.8	58.8	49.7	46.7	24.5	55.5	546.7
10	6.0	59.3	57.3	47.8	44.8	25.0	53.3	545.0
16	7.6	56.2	54.2	43.7	40.7	25.0	48.6	543.0
20	8.5	54.8	52.8	41.8	38.8	25.0	46.3	542.0
25	9.5	53.3	51.3	39.8	36.8	24.3	43.8	541.2
31.25	10.7	51.9	49.9	37.9	34.9	23.6	41.2	540.4
62.5	15.4	47.4	45.4	31.9	28.9	21.5	32.0	538.6

100	19.8	44.3	42.3	27.8	24.8	20.1	24.5	538.0
200	29.0	39.8	37.8	21.8	18.8	18.0	10.8	536.5
250	32.8	38.3	36.3	19.8	16.8	17.3	5.5	536.0

Standards

Product Standards	CM grade – comply with the UL flame exposure described in UL 1685
Performance Standards	ISO/IEC11801 & ANSI/TIA 568C

Environmental Characteristics

Operating Temperature Range	-10°C ~ +60°C
Storage Temperature Range	-10°C ~ +75°C

Order Information

Reference	Description
DC6CAUTP4P3_C18624	CAT.6 4PR UTP CABLE 305M CM BLUE
DC6CAUTP4P3_C18611	CAT.6 4PR UTP CABLE 305M CM GREY

as requested for specific project