

4pair/0.57mm Unshielded Twisted Pair (UTP) Category 6

(For high-speed horizontal distribution cabling)

Cable description:

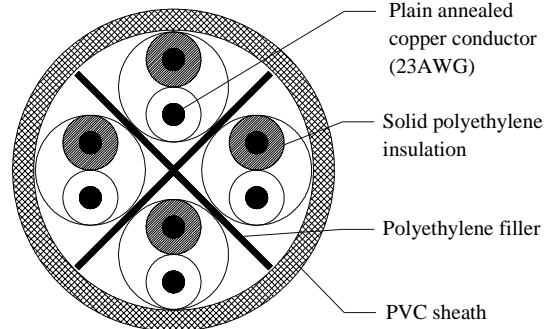
Plain annealed copper conductors, polyethylene insulated, twisted pair, flame retardant PVC overall sheathed. 100Ω balanced cable suitable for Local Area Network (LAN) for high-speed horizontal distribution network cabling (250 MHz). Suitable for 100 Mbps TPDDI, 622 Mbps ATM, 1000 Base T, IEEE 802.3 & IEEE 802.5, Gigabit Ethernet, broadband digital video, etc. Cable is UL listed.

Note: Although performance is guaranteed to 250 MHz this cable is tested up to 1200 MHz, results are available on request

Construction details:

Conductor : Plain annealed copper - 23 AWG
 Insulation : Solid polyethylene
 Core Identification: Pair 1 White-Blue stripes/Blue
 : Pair 2 White-Orange stripes/Orange
 : Pair 3 White-Green stripes /Green
 : Pair 4 White-Brown stripes /Brown
 Outer sheath : PVC 75°C
 Sheath colour : Grey – Standard
 : Blue – Alternative

Cross sectional drawing:



Dimensions and mass:

Overall cable diameter (nominal): 6.2 mm
 Mass (nominal) : 40 kg/km

Specifications: ISO/IEC 11801, Class E; AS/NZS 3080; AS/ACIF S008; TIA/EIA 568B; AS 1660.5.6 (Combustion propagation)

Physical & Mechanical characteristics:

Minimum bending radius [mm]: 50
 Maximum pulling tension [N] : 190
 Operating temperature range [°C]: - 20 to + 60

Electrical & Transmission characteristics:

DC resistance [Ω/100m]: 9.38 Max.
 Resistance unbalance [%]: 3 Max.
 Input impedance [Ω]: 100 @ 1-250 MHz

Mutual capacitance [nF/100m]: 5.5 Max.
 Capacitance unbalance [pF/100m]: 330 Max. (pair to earth)
 Delay skew [ns/100m]: 45 @ 1-250 MHz
 Propagation delay [ns/100m]: 536 Max. @ 250 MHz
 LCL [dB]: 16 Min. @ 250 MHz
 Voltage capability [V]: 110
 Power capacity [W]: 20 per pair

Note: All electrical characteristics are given at 20°C

Freq.	Attenuation Max	Pr - Pr NEXT Min	Power Sum NEXT Min	Pr - Pr ACR Min	Power Sum ACR Min	Pr - Pr ELFEXT Min	Power Sum ELFEXT Min	Return Loss Min
[MHz]	[dB/100m]	[dB/100m]	[dB/100m]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB/100m]
1	2.1	74.3	72.3	72.2	70.2	67.8	64.8	-
4	3.8	65.3	63.3	61.4	59.4	55.8	52.8	23.0
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.6	46.6	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.7	25.0
31.25	10.7	51.9	49.9	41.1	39.1	37.9	34.9	23.6
62.5	15.5	47.4	45.4	31.9	29.9	31.9	28.9	21.5
100	19.9	44.3	42.3	24.4	22.4	27.8	24.8	20.1
125	22.5	42.8	40.8	20.4	18.4	25.9	22.9	19.4
155.52	25.3	41.4	39.4	16.1	14.1	24.0	21.0	18.8
175	27.1	40.7	38.7	13.6	11.6	22.9	19.9	18.4
200	29.1	39.8	37.8	10.6	8.6	21.8	18.8	18.0
250	33.0	38.3	36.3	5.3	3.3	19.8	16.8	17.3

Part Numbers: L4P6 (Grey sheath) / L4P6BL (Blue sheath). Available in 305m length in dispenser cartons (Reelex boxes)

17th April, 2009

The information contained in this data sheet is subject to normal manufacturing tolerances. Specifications are subject to change without notice.

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