

4pair/0.51mm Unshielded Twisted Pair (UTP) Enhanced Category 5

(For horizontal distribution and vertical backbone cabling)

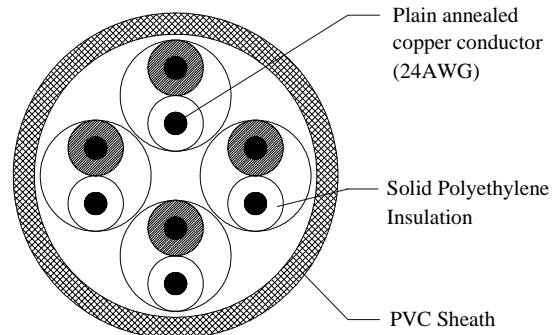
Cable description:

Plain annealed copper conductors, solid polyethylene insulated, twisted pair, flame retardant PVC overall sheathed. 100Ω balanced cable suitable for Local Area Network (LAN) for horizontal distribution and backbone network cabling (100 MHz). Suitable for 16 Mbps Token Ring/155 Mbps ATM PMD/100 Base – VG, T4, X, 1000 Base T (Gigabit Ethernet), etc. Cable is UL listed.

Construction details:

Conductor : Plain annealed copper - 24 AWG
 Insulation : 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 : Blue – Standard
 : Grey – Alternative

Cross sectional drawing:



Dimensions and mass:

Overall cable diameter (nominal): 5.2 mm
 Mass (nominal) : 30.5 kg/km

Specifications: EIA/TIA 568, ISO/IEC 11801, AS/NZS 3080 and AS/ACIF S008

Mechanical characteristics:

Minimum bending radius [mm] : 40
 Maximum pulling tension [N] : 150
 Operating temperature range [°C] : - 20 to + 60

Fire resistance characteristics:

Cable meets IEC332, part 1 Specification: "Test on a single vertical insulated wire or cable"

Electrical characteristics:

DC resistance [Ω/100m] : 9.38 Max.
 Resistance unbalance [%] : 3.0 Max.
 Characteristic impedance [Ω] : 100 ± 15 @ 1-100 MHz
 Mutual capacitance [nF/100m] : 5.5 Max.
 Capacitance unbalance [pF/100m]: 340 Max. (pair to earth)

Note: All electrical characteristics are given at 20°C

Freq.	Insertion Loss 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	65.3	62.3	63.2	60.2	63.8	60.8	-
4	4.0	56.3	53.3	52.3	49.3	51.8	48.8	23.0
10	6.3	50.3	47.3	44.0	41.0	43.8	40.8	25.0
16	8.0	47.2	44.2	39.2	36.2	39.7	36.7	25.0
20	9.0	45.8	42.8	36.8	33.8	37.8	34.8	25.0
31.25	11.4	42.9	39.9	31.5	28.5	33.9	30.9	23.6
62.5	16.5	38.4	35.4	21.8	18.8	27.9	24.9	21.5
100	21.3	35.3	32.3	14.0	11.0	23.8	20.8	20.1

Part numbers: L4P5E - Standard blue sheath / L4P5EGR - Alternative grey sheath

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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