4pair/0.51mm Foiled Twisted Pair (FTP) Enhanced Category 5

(For horizontal distribution and vertical backbone cabling)

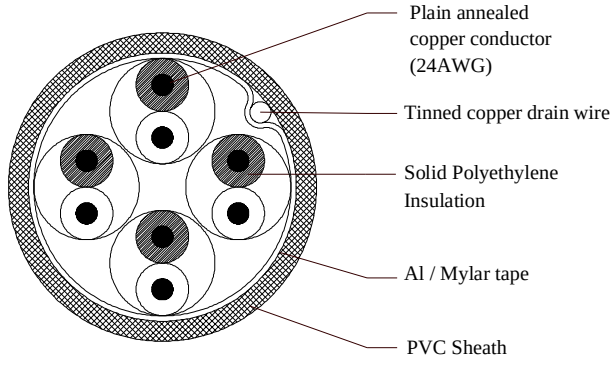
Cable description:

Plain annealed copper conductors, solid polyethylene insulated, twisted pair, taped, overall screened with drain wire and 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.

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
Tape : Polyethylene terephthalate
Drain wire : 0.5mm diameter tinned copper
Screen : Aluminium/Polyethylene terephthalate
Outer sheath : PVC 75°C
Sheath colour: Blue

Cross sectional drawing:



Dimensions and mass:

Overall cable diameter (nominal): 5.4 mm
Mass (nominal) : 38 kg/km

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

Mechanical characteristics:

Minimum bending radius [mm]: 50

Maximum pulling tension [N] : 200

Operating temperature range [ºC] : - 20 to + 60

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 20ºC

Frequency	Attenuation Max.	Pr - Pr NEXT Min.	Power Sum NEXT Min.	ACR Min.	Pr – Pr FEXT Min.	Power Sum ELFEXT Min.
[MHz]	[dB/100m]	[dB/100m]	[dB/100m]	dB	[dB/100m]	[dB/100m]
1	2.1	62	62.3	63.3	63.8	60.8
4	4.3	53	53.3	52.2	51.7	48.7
10	6.6	47	47.3	43.8	43.8	40.8
16	8.2	44	44.3	39.1	39.7	36.7
20	9.2	42	42.8	36.5	37.7	34.7
31.25	11.8	40	39.9	31.2	33.9	30.9
62.5	17.1	35	35.4	21.4	27.8	24.8
100	22.0	32	32.3	13.3	23.8	20.8

Part number: L4P5ECS

10th February, 2006

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

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