4pair / 23 AWG Screened Twisted Pair (S-STP) Category 7 – 600 MHz

(For high-speed horizontal and work area distribution cabling)

Cable description:

Plain annealed copper conductors, foam-skin polyethylene insulated, twisted pair, aluminium/polyester laminated individually screened, tinned copper wires braided with common drain wire and flame retardant PVC overall sheathed. 100Ω balanced cable for Local Area Network (LAN) for high-speed horizontal distribution structured cabling (up to 600 MHz). Suitable for 100 Mbps TPDDI, 622 Mbps ATM, 1000 Base T, IEEE 802.3 & IEEE 802.5, Gigabit Ethernet, broadband digital video, etc.

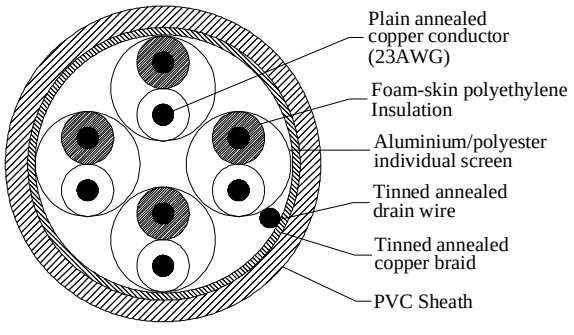
Construction details:

Conductor: Plain annealed copper - 23 AWG
Insulation : Foam-skin polyethylene
Screen : Aluminium/Polyethylene terephthalate tape
Drain wire: Tinned annealed copper – 0.5 mm diameter
Braid : Tinned annealed copper wires
Outer sheath: PVC 75°C - Grey

Physical & Mechanical characteristics:

Overall cable diameter (nominal): 7.8 mm
Mass (nominal) : 80 kg/km
Minimum bending radius : 50 mm
Maximum pulling tension : 200 N
Operating temperature range : - 20 to + 60 ºC

Cross sectional drawing:



Pair identification

Pair 1 White-Blue	Pair 3 White-Green
Pair 2 White-Orange	Pair 4 White-Brown

Specifications: ISO/IEC 11801 (Class F); AS/NZS 3080; AS/ACIF S008 and AS 1660.5.6 (Combustion propagation)

Freq.	Attenuation	Pr - Pr NEXT	Pr – Pr ACR	Return Loss Min
[MHz	[dB/100]	[dB]	[dB/100]	[dB]
1	1.9	90	88	28
4	3.5	90	86	30
10	5.5	90	85	35
16	7.0	90	83	35
20	7.5	90	82	35
31.25	9.5	90	81	35
62.5	13.5	85	72	35
100	17.0	85	68	35
155	21.0	80	59	30
200	24.0	76	52	28
300	29.5	74	45	27
600	46.0	70	24	25

Electrical & Transmission characteristics:

DC loop resistance [Ω/100m] : 14 Max.
Resistance unbalance [%] : 1 Max.
Insulation resistance [GΩ/km] : 5 Min.
Capacitance unbalance [pF/100m] : 100 Max.
Dielectric strength [kV dc/ for 1min] : 1 Min.
Input impedance [Ω] : 100±15 @ 1-300 MHz
100±25 @ 300-600 MHz
Delay skew [ns/100m] : 25 @ 100 MHz
Propagation delay [ns/100m]: 480 Max. @ 100 MHz
Coupling attenuation [dB] : 90 Min. @ 30-100 MHz
Transfer impedance [mΩ/m]: 10 Max. @ 1 &10 MHz
Operating voltage [Vdc] : 125

Note: All electrical characteristics are given at 20ºC

Part Number: L4P7CS - Cable is available in 305 m and 500 m length

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

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