Internal Telephone/Data Communications Cable - UTP Category 3

Cable Design

AS/NZS 3080
ACMA - AS/CA S008
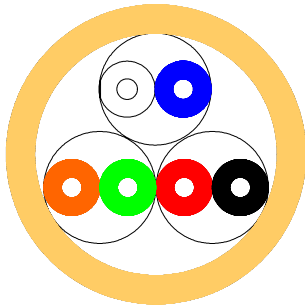
- **Multi-pair construction**

- **Conductor:** Annealed solid copper wire 0.50mm diameter (24 AWG)

- **Insulation:** Polyethylene compound in compliance with AS1049

- **Cabling element:** Twisted pair

- **Colour code:** See table 1

- **Stranding of pairs:** Circular

- **Sheath:** PVC in compliance with AS 1049. One ripcord is provided beneath the sheath for easy removal

- **Sheath (Alternative):** LS0H in compliance with AS 1049

- Drawing not to scale -

These Internal cables have been upgraded to Category 3, 100Ω balanced, suitable for Local Area Network (LAN) network cabling (Up to 16 MHz). Data-grade UTP, capable of supporting transmission rates of up to 16Mbps

Technical data

Number of Pairs		2	3
Cable nominal diameter	mm	3.9	4.8
Cable nominal weight	kg/km	20	27
Max. installation tension	kN	75	110
Min. bending radius	mm	10 x Cable OD	
Temperature range	°C	Installation 0 -> +50	Operation 0 -> +60

Identification

Sheath Colour:

The standard outer sheath colour is manilla (off-white). The colour for the LS0H option is black.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

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PRYSMIAN DW M@XTEL CAT3 XPR INTERNAL TELEPHONE 0.50MM Part No ⚠ N10514 T/N #### MM/YY MADE IN AUSTRALIA *****M
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Attenuation and Near End Crosstalk (NEXT):

Frequency [MHz]	Max. Attenuation [dB/100m]	Min. Pr-Pr NEXT [dB/100m]
0.256	1.3	N/A
0.512	1.8	N/A
0.772	2.2	43.0
1.0	2.6	41.3
4.0	5.6	32.3
8.0	8.5	27.8
10.0	9.7	26.3
16.0	13.1	23.2

Electrical characteristics

DC resistance [Ω/100m]: 9.38 Max.

Resistance unbalance [%]: 5.0 Max.

Characteristic impedance [Ω]: 100 ± 15
@1.0–16 MHz

Capacitance unbalance [pF/100m] pair to ground @ 0.8 or 1.0 kHz: 330 Max.

Note: All electrical characteristics are given at 20°C

Table 1. Colour code / Pair and unit identification

Pair number	Insulation colour	
	Wire a	Wire b
1	White	Blue
2	Red	Black
3	Orange	Green

Logistic

Packing:
Fibreboard 'easy-pull' dispenser cartons (Reelex)

Delivery Lengths:
Standard delivery length is 250, 305 (2 pair only) or 500 m with a tolerance of - 1% / + 3%