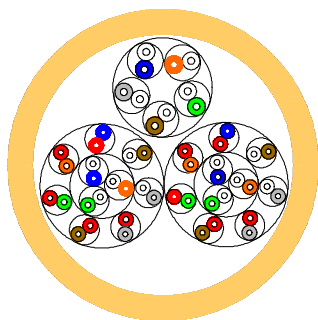


M@XTEL®

Internal Telephone/Data Communications Cable - UTP Category 3

Cable Design

**AS/NZS 3080
ACMA - AS/CA S008**



- Drawing not to scale -

- **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:** Bunched (5 and 10 units)
- **Wrapping:** Polyethylene terephthalate tape
- **Sheath:** PVC in compliance with AS 1049. One ripcord is provided beneath the sheath for easy removal
- **Sheath (Alternative):** LSOH in compliance with AS 1049

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		6	10	25	50	100
Cable nominal diameter	mm	6.8	8.4	11.5	15.8	21.3
Cable nominal weight	kg/km	52	75	152	280	537
Max. installation tension	N	230	380	950	1900	3800
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 LSOH option is black.

Sheath Marking:

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

PRYSMIAN DW M@XTEL CAT3 XXXPR INTERNAL TELEPHONE 0.50MM Part No  N10514 T/N #### MM/YY MADE IN AUSTRALIA *****

Attenuation and Near End Crosstalk (NEXT):			Electrical characteristics	
Frequency [MHz]	Max. Attenuation [dB/100m]	Min. Pr-Pr NEXT [dB/100m]		
0.256	1.3	N/A	DC resistance [Ω /100m]: 9.38 Max.	
0.512	1.8	N/A	Resistance unbalance [%]: 5.0 Max.	
0.772	2.2	43.0	Characteristic impedance [Ω]: 100 \pm 15 @ 1.0–16 MHz	
1.0	2.6	41.3	Capacitance unbalance [pF/100m] pair to ground @ 0.8 or 1.0 kHz: 330 Max.	
4.0	5.6	32.3		
8.0	8.5	27.8		
10.0	9.7	26.3		
16.0	13.1	23.2	Note: All electrical characteristics are given at 20°C	

Table 1. Colour code / Pair and unit identification

Pair number	Insulation colour		Pair number	Group colour	
	Wire a	Wire b			
1	White	Blue	1 to 10	White	Blue
2	White	Orange	11 to 20	White	Orange
3	White	Green	21 to 30	White	Green
4	White	Brown	31 to 40	White	Brown
5	White	Grey	41 to 50	White	Grey
6	Red	Blue	51 to 60	Blue	Blue
7	Red	Orange	61 to 70	Orange	Orange
8	Red	Green	71 to 80	Green	Green
9	Red	Brown	81 to 90	Brown	Brown
10	Red	Grey	91 to 100	Grey	Grey

Units : 5 pairs (pairs 1 to 5); 10 pairs (pairs 1 to 10)

Logistic

Packing:

Light weight timber drums to AS/NZS 2857 with NOLCO-FLEX protection

Delivery Lengths:

Standard delivery length is 250 or 500 m with a tolerance of - 1% / + 3%

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