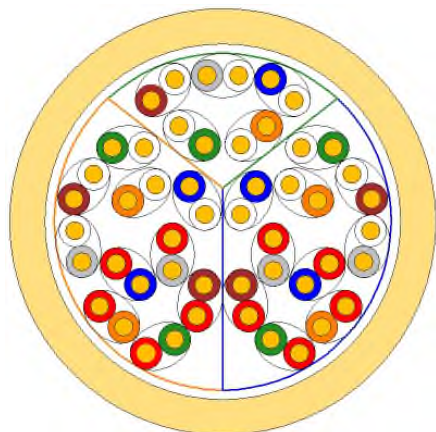


# M@XTEL® Comms Cable

## Internal Telephone/Data Communications Cable – UPT Category 3

### Cable Design

ACMA - AS/CA S008



- Drawing not to scale -

- **Multi-pair construction**
- **Conductor:** Annealed solid copper wire 0.50mm diameter (24 AWG) in compliance with AS/NZS 1125
- **Insulation:** Polyethylene compound in compliance with AS 1049
- **Cabling element:** Twisted pair
- **Colour code:** See table 1
- **Stranding of pairs:** Bunched (5 and/or 10 pair unit)
- **Wrapping:** Polyethylene terephthalate tape
- **Sheath:** PVC in compliance with AS/CA S008. One ripcord is provided beneath the sheath for easy removal

These Internal cables have been upgraded to Category 3, 100Ohm 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	20	25	50	100
Cable nominal diameter	mm	6.8	8.4	10.9	11.5	15.8	21.3
Cable nominal weight	kg/km	50	75	130	150	280	535
Max. installation tension	N	230	380	760	950	1900	3750
Min. bending diameter	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).

#### Sheath Marking:

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

PRYSMIAN DW M@XTEL COMMS CABLE MM/YY XXX/0.50 CAT3 INTERNAL TELEPHONE  
J/N ##### MADE IN AUSTRALIA \*\*\*\*\* >> | << \*\*\*\*\*M

Where:

MM/YY = Month/Year of manufacture  
 XXX = Number of Pairs  
 ##### = Job Numbers  
 \*\*\*\*\*M >> | << \*\*\*\*\*M = Metre Marking with cut line

<b>Attenuation and Near end Crosstalk (NEXT):</b>		
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	263.3
16.0	13.1	23.2

<b>Electrical characteristics</b>		
DC resistance (Max.)	$\Omega$ /100m	9.38
Resistance unbalance (Max.)	%	5.0
Characteristic impedance @ 1.0-16 MHz	$\Omega$	100±15
Capacitance unbalance (Max.) pair to ground @ 0.8 or 1.0kHz	pF/100m	330

Note: All electrical characteristics are given at 20°C

**Table 1. Colour code / Pair 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:

Timber drums generally to AS/NZS 2857 with flexible cable wrap protection

### Delivery Lengths:

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

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