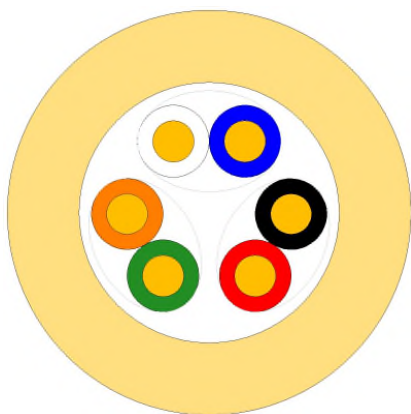


# M@XTEL® Comms Cable

## 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
- **Sheath:** PVC in compliance with AS/CA S008

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		2	3
Cable nominal diameter	mm	3.9	4.8
Cable nominal weight	kg/km	19	27
Max. installation tension	N	75	110
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 X/0.50 CAT3 INTERNAL TELEPHONE  
J/N #### MADE IN AUSTRALIA \*\*\*\*\* >> | << \*\*\*\*\*M

Where:

MM/YY = Month/Year of manufacture  
X = 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	
	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 305 or 500m for 2 pair, 305m for 3 pair; with a tolerance of - 1% / + 3%

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