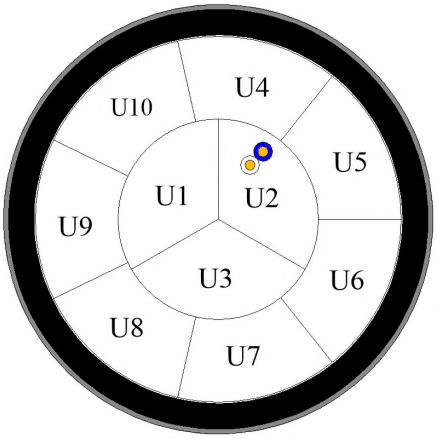
M@XTEL®

External Underground Distribution Cable - Unscreened

Cable Design

ACMA - AS/CA S008



- Drawing not to scale -

- **Multi-pair construction**
- **Conductor:** Annealed solid copper wire 0.64mm diameter (22 AWG) in compliance with AS 1125
- **Insulation:** Cellular polyethylene compound in compliance with AS 1049
- **Cabling element:** Twisted pair
- **Colour code:** See table 1
- **Stranding of pairs:** Bunched (10 pair sub-units) / Units laid-up
- **Longitudinal water tightness:** Semi-dry Gel filled interstices
- **Wrapping:** Polyethylene terephthalate or paper tape
- **Sheath:** UV stabilised Polyethylene in compliance with AS 1049
- **Outer jacket:** UV stabilised polyamide (nylon) in compliance with AS 1049 integrally bonded to the polyethylene sheath

This copper telecommunications cable is designed for external underground installations in ducts or by direct burial in trenches. Polyamide provides anti-termite protection.

Technical data

Number of Pairs		10	30	50	100
Cable nominal diameter	mm	10.2	15.5	19.5	26.8
Cable nominal weight	kg/km	110	275	445	860
Max. installation tension	kN	0.6	1.8	3.1	6.1
Min. bending diameter	mm	16 x Cable OD			
Temperature range	°C	Installation -0 -> +50		Operation -10 -> +70	

Identification

Sheath Colour:
The standard outer sheath colour is black.

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

```
PRYSMIAN DW M@XTEL XXXPR 0.64 Part Number J/N #### MM/YY MADE IN AUSTRALIA *****M >> | << *****M
```

Where:

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

Electrical characteristics
DC resistance [Ω/km]: 56.4 Max.
Insulation resistance [MΩ.km]: 10,000 Min.
Mutual capacitance [nF/km]: 49 Max.
Capacitance unbalance [pF] pair to pair: 150 Max. (corrected to 500m length)
Note: All electrical characteristics are given at 20ºC

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	Blue	Blue
2	White	Orange	11 to 20	Orange	Orange
3	White	Green	21 to 30	Green	Green
4	White	Brown	31 to 40	Brown	Brown
5	White	Grey	41 to 50	Grey	Grey
6	Red	Blue	51 to 60	White	Blue
7	Red	Orange	61 to 70	White	Orange
8	Red	Green	71 to 80	White	Green
9	Red	Brown	81 to 90	White	Brown
10	Red	Grey	91 to 100	White	Grey

Units : 10 pairs (pairs 1 to 10)

Logistic

Packing:
Timber drums to AS/NZS 2857 with NOLCO-FLEX protection

Delivery Lengths:
Standard delivery length is 1 km with a tolerance of - 1% / + 3%

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