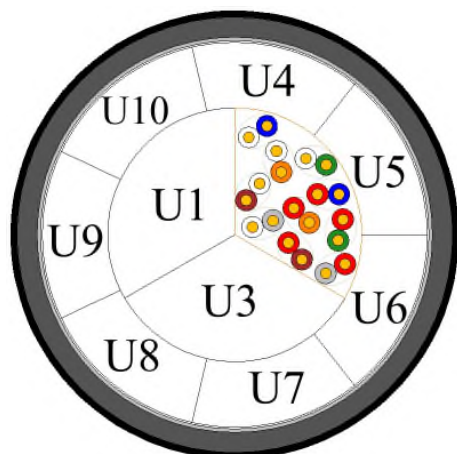


# M@XTEL® Comms Cable

## External Underground Distribution Cable – Screened CPFUT MBHJ(C)

### Cable Design

**ACMA - AS/CA S008**



- Drawing not to scale -

- **Multi-pair construction**
- **Conductor:** Annealed solid copper wire 0.90mm diameter (20 AWG) in compliance with AS/NZS 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
- **Moisture barrier:** Aluminium/polyethylene laminated 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 (*Refer to Note 1*)

This copper telecommunications cable is designed for external underground installations in ducts or by direct burial in trenches. Aluminium moisture barrier provides complete water protection and polyamide provides effective anti-termite barrier.

### Technical data

Number of Pairs		10	30	50 <sup>1</sup>	100 <sup>1</sup>
Cable nominal diameter	mm	14.4	23.0	26.5	36.0
Cable nominal weight	kg/km	225	590	905	1710
Max. installation tension	kN	1.2	3.6	6.1	12
Min. bending diameter	mm	20 x Cable OD			
Temperature range	°C	Installation -0 -> +50		Operation -10 -> +70	

Note 1: Bonded nylon not available for 50 and 100 Pair

### 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 COMMS CABLE MM/YY XXX/0.90 CPFUT <SHEATH>  
J/N ##### MADE IN AUSTRALIA \*\*\*\*\* >> | << \*\*\*\*\*

Where:

MM/YY	= Month/Year of manufacture
XXX	= Number of Pairs
<SHEATH>	= MBHJC BONDED for 10 & 30 Pairs, MBHJ for 50 & 100 Pair
####	= Job Numbers
*****M >>   << *****	= Metre Marking with cut line

Electrical characteristics		
DC resistance (Max.)	Ω/km	27.9
Insulation resistance (Min.)	MΩ.km	20,000
Mutual capacitance (Max.)	nF/km	49
Capacitance unbalance, Pair to Pair (Max.)		
Corrected to 500m length	pF	150
Exponentially smoothed average, corrected to 1000m length	pF	32
Capacitance unbalance, Pair to Earth (Max.)		
Corrected to 1000m length – 10 Pair Cable	pF	700
– 30, 50 & 100 Pair Cables	pF	500

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	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 generally to AS/NZS 2857 with flexible cable wrap protection

### Delivery Lengths:

Standard delivery length is 1 km for 10 Pair, 500m for 30/50/100 Pair; with a tolerance of - 1% / + 3%

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