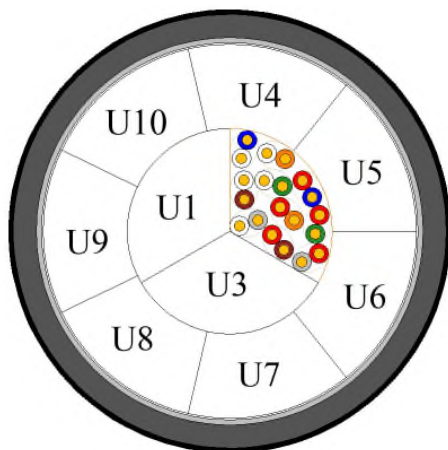


M@XTEL® Comms Cable

External Underground Distribution Cable – Screened CPFUT MBHJC

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/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

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	100
Cable nominal diameter	mm	10.5	15.8	19.8	27.0
Cable nominal weight	kg/km	125	295	470	890
Max. installation tension	kN	0.6	1.8	3.1	6.1
Min. bending diameter	mm	20 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 COMMS CABLE MM/YY XXX/0.64 CPFUT MBHJC BONDED
J/N ##### MADE IN AUSTRALIA ***** >> | << *****

Where:

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

Electrical characteristics		
DC resistance (Max.)	Ω/km	56.4
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	37
Capacitance unbalance, Pair to Earth (Max.)		
Corrected to 1000m length – 10 Pair Cable	pF	800
– 30, 50 & 100 Pair Cables	pF	600

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 with a tolerance of - 1% / + 3%

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