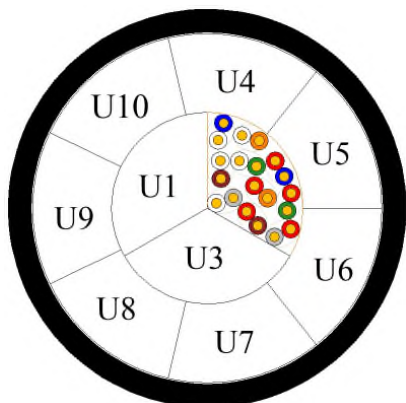


M@XTEL® Comms Cable

External Underground Distribution Cable – Unscreened CPFUT PE

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
- **Sheath:** UV stabilised polyethylene in compliance with AS 1049

This copper telecommunications cable is designed for external underground installations in ducts or by direct burial in trenches.

Technical data

| Number of Pairs | | 10 | 30 | 50 | 100 |
|---------------------------|-------|------------------------|------|----------------------|------|
| Cable nominal diameter | mm | 9.7 | 14.9 | 19.0 | 26.2 |
| Cable nominal weight | kg/km | 105 | 265 | 430 | 835 |
| 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 COMMS CABLE MM/YY XXX/0.64 CPFUT PE J/N ##### MADE IN AUSTRALIA *****M >> | << *****M

Where:

MM/YY = Month/Year of manufacture
 XXX = Number of Pairs
 ##### = Job Numbers
 *****M >> | << *****M = 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%

© PrysmianGroup 2020, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by PrysmianGroup: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of PrysmianGroup. The information is believed to be correct at the time of issue. PrysmianGroup reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by PrysmianGroup.