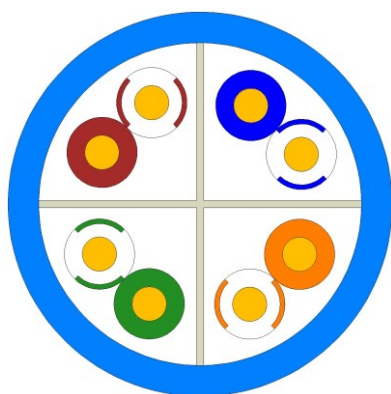


M@X6®**Unshielded Twisted Pair (UTP) Category 6****EIA/TIA 568-C.2
AS 11801.1
ACMA - AS/CA S008****Cable Design**

Drawing not to scale -

- **Multi-pair construction**
- **Conductor:** Annealed solid copper wire 0.51mm diameter (24 AWG)
- **Insulation:** Polyethylene compound in compliance with AS1049
- **Cabling element:** Twisted pair
- **Colour code:** See table 1
- **Stranding of pairs:** Bunched around cross web filler
- **Sheath:** Flame retardant PVC in compliance with AS 1049

100Ω balanced UTP cable suitable for Local Area Network (LAN) cabling up to 250 MHz capable of supporting transmission rates of up to and including 10-Gigabit Ethernet. Cable is UL verified (see *Note 1*).

Technical data

Number of Pairs		4
Cable nominal diameter	mm	5.6
Cable nominal weight	kg/km	34.5
Max. pulling tension	N	100
Min. bending radius	mm	8 x cable OD
Temperature range	°C	Installation 0 -> +50 Operation -20 -> +60

Note 1: Cable meets AS/NZS IEC 60332.1 "Test for vertical flame propagation for a single insulated wire or cable"

Identification**Sheath Colour:**

The standard outer sheath colour is grey (RAL 7044). Alternative colour is blue (RAL 5019).

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows:

PRYSMIAN M@X6 4PR CATEGORY 6 UTP 24AWG TYPE CMX XXXX MM/YY T/N #### *****

Where: XXXX = L4P6GR for cables with grey sheath, L4P6BU for blue sheath

Transmission characteristics

Frequency [MHz]	Return Loss [dB] Min	Attenuation [dB/100m] Max	NEXT [dB] Min	PS NEXT [dB] Min	ACRF [dB/100m] Min	PS ACRF [dB/100m] Min	Propagation Delay [ns/100m] Max	Propagation Delay Skew [ns/100m] Max
1.0	20+5log(f)	2.0	74.3	72.3	67.8	64.8	570	45
4.0		3.8	65.3	63.3	55.8	52.8	552	
10.0		6.0	59.3	57.3	47.8	44.7	545	
16.0	25	7.6	56.2	54.2	43.7	40.7	543	
20.0		8.5	54.8	52.8	41.8	38.8	542	
31.25	25-7log(f/20)	10.7	51.9	49.9	37.9	34.9	540	
62.5		15.4	47.4	45.4	31.9	28.9	539	
100		19.8	44.3	42.3	27.8	24.8	538	
200		29.0	39.8	37.8	21.8	18.8	537	
250		32.8	38.3	36.3	19.8	16.8	536	

Electrical characteristics

DC resistance [Ω /100m]:	9.38 Max.
Resistance unbalance [%]:	5 Max.
Mutual capacitance @1kHz [pF/100m]:	5.6 Max.
Capacitance unbalance @1kHz, pair to ground [pF/100m]:	330 Max.
<i>Note: All electrical characteristics are given at 20°C</i>	

Table 1. Colour code / Pair identification

Pair number	Insulation colour				
	Wire a	Wire b		Wire a	Wire b
1	Blue	White blue stripes (2)	3	Green	White green stripes (2)
2	Orange	White orange stripes (2)	4	Brown	White brown stripes (2)

Logistic

Packing:

Plastic reels and cardboard boxes – 268 x 298 x 308 mm (Red / White)

Delivery Lengths:

Standard delivery length is 305 metres

© Prysmian 2025, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian: 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 Prysmian. The information is believed to be correct at the time of issue. Prysmian reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian.