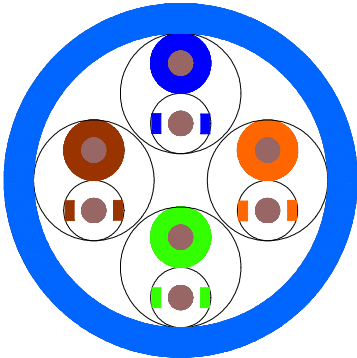


**M@X5E®**

**Unshielded Twisted Pair (UTP) Enhanced Category 5**

**EIA/TIA 568-C.2  
AS/NZS 3080  
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 AS 1049
- **Cabling element:** Twisted pair
- **Colour code:** See table 1
- **Stranding of pairs:** Bunched
- **Sheath:** Flame retardant PVC (75°C) in compliance with AS 1049

100Ω balanced UTP cable suitable for Local Area Network (LAN) cabling up to 100 MHz capable of supporting transmission rates of up to and including Gigabit Ethernet. Cable is UL verified (see Note1).

**Technical data**

<b>Number of Pairs</b>		<b>4</b>
Cable nominal diameter	mm	5.0
Cable nominal weight	kg/km	31
Max. pulling tension	N	150
Min. bending radius	mm	40
Temperature range	°C	Installation 0 -> +50      Operation -20 -> +60

Note 1: Cable meets IEC 60332-1 "Test for vertical flame propagation for a single insulated wire or cable"

**Identification**

**Sheath Colour:**

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

**Sheath Marking:**

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

PRYSMIAN M@X5E 4PR CATEGORY 5 ENHANCED VERIFIED (UL) E179849G UTP 24AWG TYPE CMX XXXX MM/YY T/N ##### \*\*\*\*\*M

Where: XXXX = L4P5E for cables with blue sheath, L4P5EGR for grey 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	65.3	62.3	63.8	60.8	570	45
4.0		4.1	56.3	53.3	51.8	48.8	552	
8.0		5.8	51.8	48.8	45.7	42.7	547	
10.0	25	6.5	50.3	47.3	43.8	40.8	545	
16.0		8.2	47.2	44.2	39.7	36.7	543	
20.0	25-7log(f/20)	9.3	45.8	42.8	37.8	34.8	542	
25.0		10.4	44.3	41.3	35.8	32.8	541	
31.25		11.7	42.9	39.9	33.9	30.9	540	
62.5		17.0	38.4	35.4	27.9	24.9	539	
100		22.0	35.3	32.3	23.8	20.8	538	

Electrical characteristics	
DC resistance [ $\Omega$ /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:

Fibreboard 'easy-pull' dispenser cartons (Reelex) – 350 x 350 x 215 mm (Green / White)

### Delivery Lengths:

Standard delivery length is 305 metres

© PrysmianGroup 2012, 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.