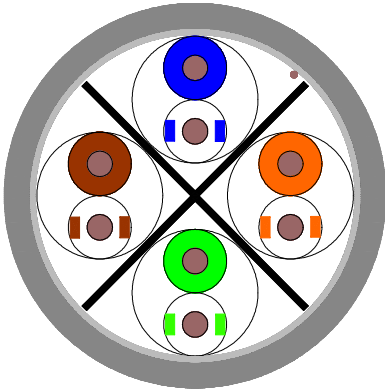


M@X6A®

Overall Foil Shielded Twisted Pair (F/UTP) Category 6A - LSOH

EIA/TIA 568-C.2
ISO/IEC 11801-1, AS/NZS 11801.1
ACMA - AS/CA S008
IEC 60332-1, IEC60332-3-24

Cable Design



- Drawing not to scale -

- **Multi-pair construction**
- **Conductor:** Annealed solid copper wire 0.51mm diameter (23 AWG)
- **Insulation:** Polyethylene compound in compliance with AS 1049
- **Cabling element:** Twisted pair
- **Colour code:** See table 1
- **Stranding of pairs:** Stranded around cross web filler
- **Drain wire:** Tinned copper wire
- **Foil screen:** Aluminium / Polyethylene terephthalate tape
- **Sheath:** Zero halogen flame retardant low smoke and fume thermoplastic in compliance with AS 1049

100Ω balanced UTP cable suitable for Local Area Network (LAN) cabling up to 500 MHz capable of supporting transmission rates of up to and including 10-Gigabit Ethernet. Overall foil shielded for protection against EMI.

Technical data

Number of Pairs		4
Cable nominal diameter	mm	7.2
Cable nominal weight	kg/km	50
Max. pulling tension	N	135
Min. bending radius	mm	60
Temperature range	°C	Installation 0 -> +50 Operation -20 -> +60

Identification

Sheath Colour:

The standard outer sheath colour is grey. Alternative colour is blue.

Sheath Marking:

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

PRYSMIAN M@X6A 4PR CATEGORY 6A F/UTP 23AWG MM/YY T/N ##### XXXX *****M >> | << *****M

Where: **XXXX** = **L4P6ALS** for cable with grey sheath , **L4P6ALSBU** 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
1.0	20.0	2.1	74.3	72.3	67.8	64.8
4.0	23.0	3.8	65.3	63.3	55.8	52.8
10.0	25.0	5.9	59.3	57.3	47.8	44.8
16.0	25.0	7.5	56.2	54.2	43.7	40.7
20.0	25.0	8.4	54.8	52.8	41.8	38.8
31.25	23.6	10.5	51.9	49.9	37.9	34.9
62.5	21.5	15.0	47.4	45.4	31.9	28.9
100	20.1	19.1	44.3	42.3	27.8	24.8
200	18.0	27.6	39.8	37.8	21.8	18.8
300	16.8	34.3	37.1	35.1	18.3	15.3
400	15.9	40.1	35.3	33.3	15.8	12.8
500	15.2	45.3	33.8	31.8	13.8	10.8

Electrical characteristics	
DC resistance [Ω /100m]:	9.38 Max.
Resistance unbalance [%]:	4.0 Max.
Mutual capacitance @1kHz [nF/100m]:	5.6 Max.
Capacitance unbalance @1kHz, pair to ground [pF/100m]:	330 Max.

Note: All electrical characteristics are given at 20°C

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	4	Brown	White brown stripes (2)

Logistic

Packing:

Plywood drums

Delivery Lengths:

Standard delivery length is 305 metres

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