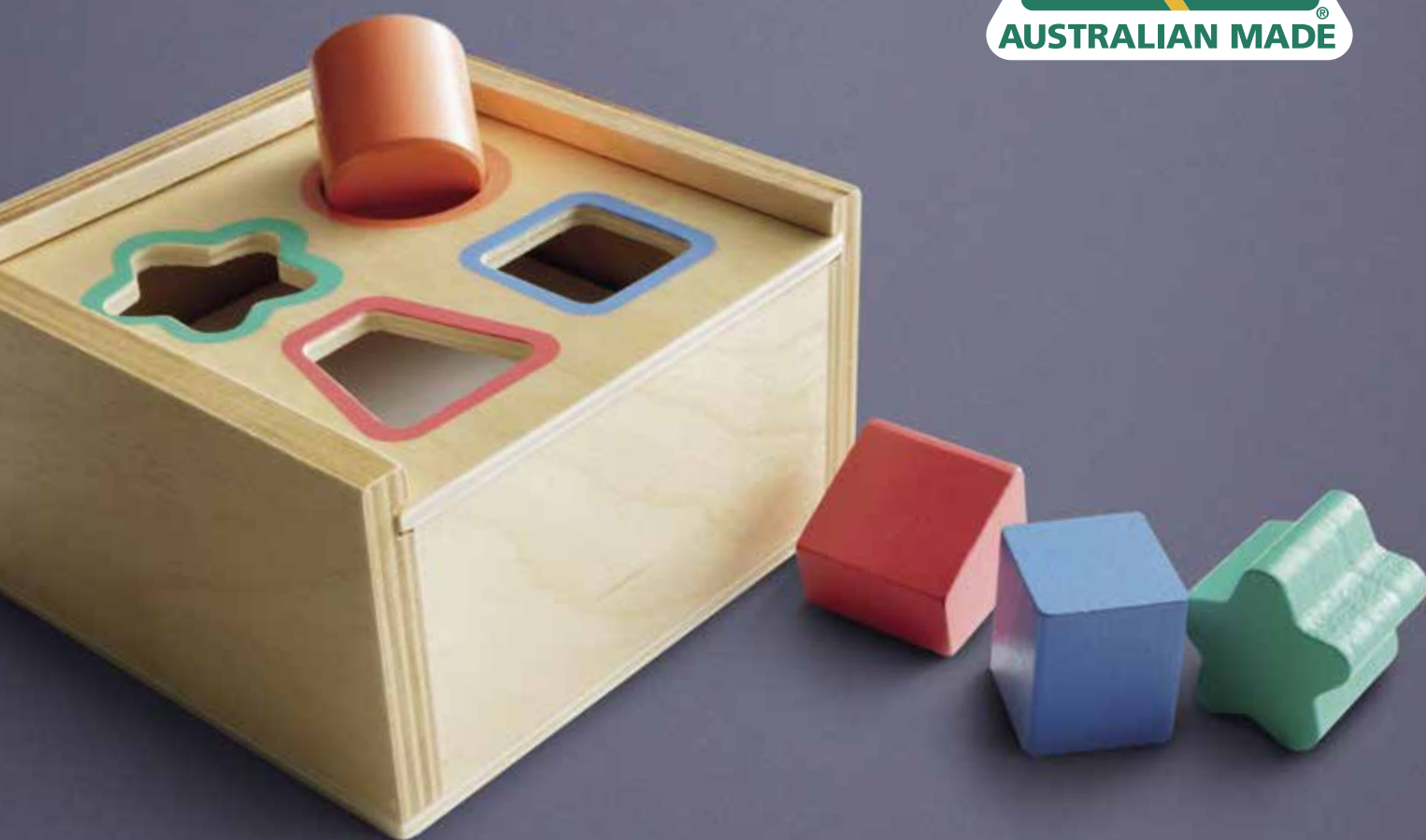




Sorting made easy.

Prysmian Telecom Copper Cables – made to fit your application.



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Whether you need data, voice, audio or video transmission, our cable solutions are well proven for today's local and global needs. Our extended range of copper cables cover the requirements of Cat 3, Cat 5E, Cat 6 and Cat 6A as well as external underground and aerial telephone applications. Enjoy the easiness of perfectly-fitted telecom copper cables. We'll sort it for you.

COPPER CABLES

For many decades, we have been designing, developing, manufacturing and selling a variety of high-quality copper and optical fibre cables in order to offer you cable solutions for present and future challenges – let it be standard products or tailor made special cables. In the communication infrastructure, our well proven products are always in use wherever it is a question of professional and undisturbed data, voice, audio and video transmission. Prysmian copper cables range as described in this brochure has been designed for data transmission and offers a high-capacity and flexible cable concept with best future prospects to our customers from within the industry, trade and service sector.

High speed

The demands on modern networks are very high. Speed and transmission reliability are of utmost priority. In this respect planning reliability is an important factor for you and for us, as today's cable concepts must also meet the requirements of tomorrow's developments. Prysmian cables have the physical potential to support structured networking for future requirements.

Our product range has been adjusted to a variety of applications and allows highest transmission ratios.

Flexibility

Our cables are always in use wherever it is a question of high-speed data transmission in local networks (LAN). They are used for standardised and manufacturer independent networks – e.g. Token Ring, Ethernet, ISDN, TPDDI, Fast Ethernet 1000BaseT, 10GbE or 40GbE.

Aside from voice and data communication, our solutions are also applicable for video communication. Among others, our product range comprises installation and patch cables which have been tested as to their compatibility with common components. Thus, we can guarantee maximum transmission reliability.

Free choice

The right equipment for all applications: Whether high transmission capacity, electromagnetic compatibility (EMC) or best fire retardancy characteristics: We can offer the optimum data cable for every application. All our products are certainly manufactured at the highest quality standards. And it is no question that we will be pleased to advise you as to the installation. Short delivery times and best service guaranteed.

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

1. LAN CABLES



M@XLAN® Cables

Prysmian supply a full range of copper Local Area Network (LAN) cables. From our basic range of LAN cables that meet the requirements of Category 5E, 6 and 6A, to very specialised high performance LAN cables for specialist areas such as Data Centres or Industrial environments.

- **Cat 5E**
1/0.5 mm 24 AWG PACW, polyolefin insulated, twisted pair, flame retardant low smoke sheath. ACMA and UL Verified. Nominal impedance 100 ohm. Tested up to 100 MHz, (tested up to 450 MHz on request). Velocity of propagation 67%. Available from stock in Blue or Grey Sheath.
- **Cat 6**
1/0.57 mm 24 AWG PACW, polyolefin insulated, twisted pair, flame retardant low smoke sheath. ACMA and UL Listed. Nominal impedance 100 ohm. Tested up to 250 MHz, (tested up to 600 MHz on request). Velocity of propagation 67%. Available from stock in Grey or Blue Sheath.

- **Cat 6A**

1/0.57 mm 23 AWG PACW, polyolefin insulated, twisted pair, flame retardant low smoke zero halogen sheath. ACMA and UL listed. Nominal impedance 100 ohm. Tested up to 500 MHz. Velocity of propagation 67%. Grey sheath.

Category 5E, 6 and 6A cables are available in 305 m dispenser cartons and are UL Listed and Verified.

Enhanced Performance LAN Cables

For enhanced performance LAN cabling solutions, Prysmian also manufacture and supply higher performing LAN cables such as Cat 7, Cat 7a and Cat 8.2 as well as LAN cables designed for harsh environments, (Options such as element and overall screening, direct buried, jelly filled, moisture barrier, armour, nylon jacketed and enhanced fire performance). A number of our LAN cables are also offered in a SLIM design option for significantly higher packing density. This is a major advantage for applications such as Data Centre deployments where space is at a premium.

2. TELEPHONE CABLES

M@XTEL® Internal and External Telephone Cables

Prysmian manufactures a full range of Telephone Cables at its Telecom Manufacturing plant in Sydney. The Telephone cable range is designed and made in Australia and compliant to all local and international standards. Our range includes Category 3 Internal Cables, and a full range of External Telephone Cables including standard underground as well as Figure 8 aerial and Lead-In cables.

- **M@XTEL Internal CAT 3 Telephone Cables**
Our range of Internal M@XTEL Telephone cables are rated Cat 3 allowing the stocking and use of the one cable range for your standard internal telephone and Cat 3 cabling needs. The range is 100Ω balanced, suitable for Local Area Network (LAN) network cabling (Up to 16 MHz). Data-grade UTP, capable of supporting transmission rates of up to 16 Mbps. Available from 2 to 200 pair in 0.50 mm conductor.
- **M@XTEL External Telephone Cable**
Our External M@XTEL copper telephone cables are designed for external underground installations in ducts or by direct burial. Available in all standard conductor sizes with an optional Nylon Jacket and Moisture Barrier Screen available if needed. The range features our semi-dry gel as a filling

compound, harnessing nano-sphere technology to offer superior electrical performance for high bandwidth applications. Available from 10 pair through to 400 pair in 0.40 mm, 0.64 mm and 0.90 mm conductor sizes.

- **M@XTEL Lead-In Cables**
Our M@XTEL Lead-In Telephone range includes underground and aerial options. Our underground Lead-In cables utilise the semi-dry gel for faster termination and clean up. Available in both 0.40 mm and 0.64 mm diameter conductor options with an optional nylon jacket for termite protection. The Aerial Self-supported Telephone cable is designed for external aerial installations. The Galvanised steel wire is incorporated into the polyethylene sheath in the 'figure 8' formation.
- **M@XTEL Aerial Telephone Cable**
Our self-supported copper telephone cable is designed for external aerial installations. A GSW integral bearer is incorporated into the polyethylene sheath in 'figure 8' formation. The cable can be constructed in 10 pair, 50 pair and 100 pair and is available in 0.40 mm and 0.64 mm diameter conductor options.

3. ISDN/STATION CABLES



M@XDN™ ISDN / Station Cables

Suitable for ISDN and DSL applications. Internal telephone cable for 2 Mbit/s rate and 120 ohm @ 1 MHz. 1/0.5 PACW, polyolefin insulated, twisted pair, aluminium/laminate screen with a 1/0.50 mm tinned annealed copper drain wire, LSOH thermoplastic sheathed, ACMA approved. Off-white coloured sheath.

4. CONNECTING WIRE

Connecting Wires

Jumper wire is used for the interconnection of terminal tags of MDF, pillars and cabinets and internal terminating boxes. Cable construction is solid PACW, PVC insulated, max resist 94.5, capacitance unbalance max 300/500 m @ 800 Hz.

Linking the future

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