

# Data Centre & Communications Room Augmented Category 6



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### TrueNet® CopperTen™ Modular Patch Panel

The CopperTen unshielded (UTP) patch panel is a core component of the CopperTen solution.

As with all products that make up the CopperTen solution, it was critical the insertion loss and alien crosstalk issues prevalent at high frequencies were addressed.

This involved electrical changes to the jack and introduction of a carbon cap alongside the use of a plastic 19" 1U housing to deliver the full 24 ports.

The standard CopperTen patch panel has t-bar cable-tie points found on traditional style patch panels. It also has the added option of an innovative cable management system that clips into the panel and grips the cable, which allows for fast installation and protection.



#### Features

- Supports 10 Gigabit Ethernet over unshielded copper to a full 100m up to 500MHz
- Exceeds the requirements of IEEE 802.3an (10GBASE-T) and channel requirements of ISO/IEC 11801:2002 amendment
- 19" 1U design incorporating 24 CopperTen UTP modular jacks
- Innovative and integrated cable management system allows for swift installation and cable protection
- Maximises productivity levels with 10 times the data throughput of Category 6
- True future proofing for tomorrow's network applications
- Covered by TrueNet System Warranty

#### Ordering Information

Description	Catalogue Number
Patch Panel, CopperTen Modular UTP 24 ports	6527 1 743-00
Clip & Grip Cable Management (Pack of 4)	7022 3 153-00

For termination tools and accessories please refer to page 4.102

### TrueNet® CopperTen™ Modular Patch Panel

#### Technical Specification

##### Electrical Data

Insulation resistance at +60°C and 93% relative humidity (R.H.)	≥ 1GΩ
Dielectric strength	Contact / contact ≥ 1.0kV DC Contact / shield ≥ 1.0kV DC
Current carrying capacity	≥ 1A
Typical plug / jack contact resistance	≤ 20mΩ
Typical IDC contact resistance	≤ 5mΩ
Conductor terminations of LSA-PLUS® contacts	≥ 200
Conductor diameter	0.5-0.65mm (AWG 24-22)
Insulation diameter	0.7-1.6mm

##### Mechanical Data

Plug / jack mating cycles	≥ 750 (IEC/EN 60603-7)
Plug / jack insertion / withdrawal force	≤ 20N (IEC/EN 60603-7)
Operating temperature range	-10°C to +60°C
Operating humidity range	≤ 95% R.H. non condensing
Dimensions	483mm x 44mm x 142mm

##### Testing Requirements

Connection technology	ISO/IEC 11801:2002 ANSI/TIA/EIA-568-B.2-1 EN 50173-1:2002
Channel testing	Latest ISO/IEC 11801:2002 Amendment/channel requirements

# Data Centre & Communications Room

## Augmented Category 6 – Patch Cords

### TrueNet® CopperTen™ Patch Cords

The CopperTen Unshielded (UTP) Patch Cord is used at the work area or in the Data Centre/communications room.

The patch cord is designed to reduce insertion loss and alien crosstalk measurements that are prevalent at the high frequencies associated with 10 Gigabit Ethernet.

The high performance plug is designed with an integrated strain relief boot that prevents the cable from moving at the termination point when the cable is flexed. The strain relief boot also ensures that the correct bend radius is maintained.


The copper conductors held within the cable pairs are stranded for superior flexibility.



#### Features

- Supports 10 Gigabit Ethernet over unshielded copper to a full 100m up to 500MHz
- Exceeds the requirements of IEEE 802.3an (10GBASE-T) and channel requirements of ISO/IEC 11801:2002 amendment/channel requirements
- Superior cable flexibility from stranded cores
- Boot maintains correct bend radius to ensure maximum performance
- Maximises productivity levels with 10 times the data throughput of Category 6
- True future proofing for tomorrow's network applications
- Covered by TrueNet System Warranty

#### Ordering Information

Description	Description	Catalogue Number
<b>Augmented Category 6 Patch Cord</b> <b>RJ45 plug to RJ45 plug, T568B</b> 	Blue LSZH UTP 1.0m	6645-2-827-04
	Blue LSZH UTP 2.0m	6645-2-827-07
	Blue LSZH UTP 3.0m	6645-2-827-10
	Blue LSZH UTP 5.0m	6645-2-827-15
	Blue LSZH UTP 7.5m	6645-2-827-25
	Blue LSZH UTP 10m	6645-2-827-33

Contact ADC KRONE for additional cable colours and lengths.

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Data Centre & Communications Room  
Augmented Category 6

### TrueNet® CopperTen™ Patch Cords

#### Technical Specifications

##### Mechanical Data

Operating temperature range:	-20°C to 75°C
RJ45 plug interface according to:	IEC 60603-7
Conductor:	24 AWG 7x32 stranded tinned copper
Jacket:	LSZH (EN 60754-1 & -2)
Nominal outer diameter:	7.7mm

##### Compliances

Safety rating:	IEC/EN 60950 LVD compliant
Flammability rating:	IEC 60332-1

##### Testing Requirements

Connection technology	ISO/IEC 11801:2002 ANSI/TIA/EIA-568-B.2-1 EN 50173-1:2002
Channel testing	Latest ISO/IEC 11801:2002 Amendment/channel requirements