CLIPSAL®

D A T A C O M M S

Clipsal Category 5e

Clipsal Titanium®
Category 5e Patch Cord

The Clipsal Titanium® Series Category 5e Patch Cord is a superior product delivering the best network performance when used in conjunction with other Clipsal Titanium® Series Category 5e products.

The Patch Cord is constructed of high grade cable and quality RJ45 plugs. The RJ45 plugs are provided with a fully moulded boot and a moulded insert to ensure pair integrity. The fully moulded boot ensures excellent strain relief and together with the insert, ensures that performance is not degraded when using the Patch Cord.

Patch Cords are available in multiple colours to help with circuit identification in the Cabinet/Rack.

As an integral part of the series, this product has a lifetime warranty and system performance guarantee when installed by a Clipsal Certified Installer or Endorsed Partner.

ELECTRICAL CHARACTERISTICS

Conductor Dimension (mm)	7/0.2
Conductor Insulation	Polyolefin
Core Dimension (mm)	0.98 ± 0.02
Nom O.D.(mm)	5.5 ± 0.02
Jacket Material	PVC
Cable Markings	CLIPSAL N-700 65604 CM FT4 24AWG UTP PATCH CABLE ETL VERIFIED TIA/EIA 568A CATEGORY 5E

MECHANICAL CHARACTERISTICS
Cable

Gauge	24 AWG stranded copper wire
Pair Count	4 pair individually colour coded
Sequence	Wiring sequences in 568 A & B
Rated Temperature	60°C, 75°C

PRODUCT FEATURES:

- Category 5e compliant
- high quality UTP/RJ45 Patch Cords
- available in seven colours
- fully moulded RJ45 plugs ensure stable performance
- inserts to prevent performance degradation during manufacturing
- UL CMR fire rated jacketing
- PE insulation on conductors
- PVC outer jacket material
- ETL verified
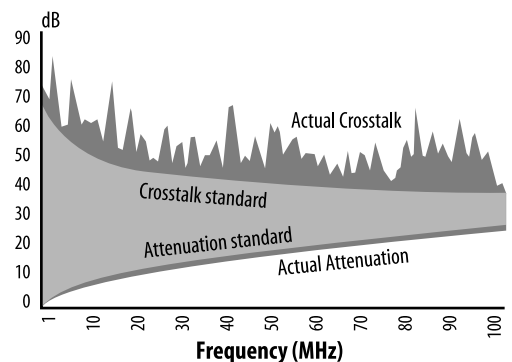- AS/NZS 3080: 2003 Class D.

CUSTOMER BENEFITS:

- being fully compliant to all necessary industry standards and requirements gives the customer confidence that their networks will perform to their best
- the fully moulded boot and insert not only ensures pair integrity but also provides an enhanced strain relief, especially during installations or moves
- multiple colours allow for easier circuit identification and administration.

TECHNICAL SPECIFICATIONS

@100MHZ	Product Specification	Cat. 5e Standard
CROSSTALK (-DB) - 2M	35.3	35.0
CROSSTALK (-DB) - 5M	35.1	34.7
CROSSTALK (-DB) -10M	34.8	34.5
RETURN LOSS (- DB)	20.0	18.0

CAT. NO.	DESCRIPTION
RJ5A8/05PL (XX)	0.5m CP5e Patch Cord
RJ5A8/10PL (XX)	1.0m CP5e Patch Cord
RJ5A8/15PL (XX)	1.5m CP5e Patch Cord
RJ5A8/20PL (XX)	2.0m CP5e Patch Cord
RJ5A8/30PL (XX)	3.0m CP5e Patch Cord
RJ5A8/50PL (XX)	5.0m CP5e Patch Cord

(XX) for colour: (BU) blue, (BK) black, (GR) green, (WE) white, (RD) red, (GY) grey, (YL) yellow

Clipsal Titanium®
Category 5e Modular Jacks

30RJ88SMA5

The Clipsal Titanium® range of products are the next generation of data communications solutions.

These modular jacks are colour coded for both 568A and 568B standards and can be terminated using a Clipsal GigaPro or Krone tool. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

Combined with other Clipsal Titanium® or Professional Series Products, they are the perfect solution to your voice and data communications needs.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	500MΩ minimum
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to +60°C
Transmission Performance	Exceeds ISO/IEC 11801 Class D AS/NZS 3080:2003 Class D

MECHANICAL CHARACTERISTICS

Modular Connector

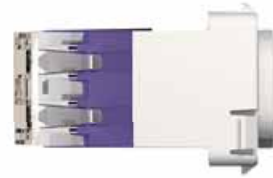|	
RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	750 insertion cycles min.
Material	Phosphor Bronze with 50 micro-inches of gold over 100 micro-inches nickel plating

IDC Connector

IDC Connector	Insulation slicing of 22 to 24 AWG (0.64 to 0.41mm)
Insulation Diameter (Wire)	0.70 - 1.60mm
Durability	10 insertions of any combination of wire gauge - one wire per slot
Connector Material	Phosphor Bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

PRODUCT FEATURES:

- Category 5e compliant
- fits all Clipsal style wall plates (Australian, US and British)
- flexible locking tabs for easy insertion/removal from the wall plate
- re-terminable IDC contacts that allow for wiring changes without damage to the unit
- universal colour-coding for 568A and 568B standards
- IDC termination using Clipsal GigaPro or Krone tool
- fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards.

COLOURS

White Electric (WE), Black (BK), Soft Grey (SG), Green (GR), Red (RD),Desert Sand (DS), Cream (CM), Yellow (YL) and Blue (BU).

CUSTOMER BENEFITS:

- being fully compliant to all necessary industry standards and requirements gives the customer confidence that their networks will perform to their best
- available in various colours (depending on region), allows for easier circuit identification and administration
- being a 30-Mech style it fits into all Clipsal wall plates (Australian, US and British), giving the customer access to the most popular plates on the market
- no damage is caused due to the easy removal of the product from wall plates.

CAT. NO.	DESCRIPTION
30RJ88SMA5	Cat. 5e 30 Mech Modular Jack
RJ88SMA5	Cat. 5e Keystone Modular Jack

Clipsal Titanium®
Category 5e Shuttered Modular Jacks

30RJ88SMA5SH

The Clipsal Titanium® range of products are the next generation of data communications solutions. The Category 5e shuttered modular jacks incorporate Clipsal's patented shutter mechanism.

These modular jacks are colour coded for both 568A and 568B standards and can be terminated using a Clipsal GigaPro or Krone tool. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

Combined with other Clipsal Titanium® or Professional Series Products, they are the perfect solution to your voice and data communications needs.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1 minute
Current Rating	1.5Amp maximum
Insulation Resistance	500MΩ minimum
Contact Resistance	2mΩ per contact
Temperature Range	–10˚C to +60˚C
Transmission Performance	Exceeds ISO/IEC 11801 Class D AS/NZS 3080:2003 Class D

MECHANICAL CHARACTERISTICS

Modular Connector

RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	
	750 insertion cycles min.
Material	Phosphor Bronze with 50 micro-inches of gold over 100 micro-inches nickel plating

IDC Connector

IDC Connector	Insulation slicing of 22 to 24 AWG (0.64 to 0.41mm)
Insulation Diameter (Wire)	0.70 - 1.60mm
Durability	10 insertions of any combination of wire gauge - one wire per slot
Connector Material	Phosphor Bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

PRODUCT FEATURES:

- category 5e compliant
- fits all Clipsal style wall plates (Australian, US and British)
- flexible locking tabs for easy insertion/removal from the wall plate
- re-terminable IDC contacts that allow for wiring changes without damage to the unit
- universal colour-coding for 568A and 568B standards
- IDC termination using Clipsal GigaPro or Krone tool
- fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards.

COLOURS

White electric (WE), Black (BK), Soft Grey (SG), Green (GR), Red (RD), Yellow (YL) & Blue (BU).

CUSTOMER BENEFITS:

- being fully compliant to all necessary industry standards and requirements gives the customer confidence that their networks will perform to their best
- available in various colours (depending on region), allows for easier circuit identification and administration
- being a 30-Mech style it fits into all Clipsal wall plates (Australian, US and British), giving the customer access to the most popular plates on the market
- no damage is caused due to the easy removal of the product from wall plates.

CAT. NO.	DESCRIPTION
30RJ88SMA5SH	Cat. 5e 30 Mech Shuttered Modular Jack
RJ88SMA5SH	Cat. 5e Keystone Shuttered Modular Jack

Clipsal Titanium®
Category 5e 16 & 24 Port Patch Panels

RJ5A1/16PP

RJ5A1/24PP

The Clipsal Titanium® range of products are the next generation of data communications solutions. The Category 5e Patch Panels are a perfect combination of sleek looks and outstanding performance.

They feature 24 individual Category 5e modular jacks that are colour coded for both 568A and 568B standards and can be terminated using a Clipsal GigaPro or Krone tool. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.

The sleek silver face of the product comprises three designation-strip holders with a label kit supplied. Rear cable management tray, velcro cable ties, cage nuts and screws are also provided with the product.

Combined with other Clipsal Titanium® or Professional Series Products, they are the perfect solution to your voice and data communications needs.

PRODUCT FEATURES:
- aesthetic, contemporary design
- powder-coated metal framework
- universal colour-coding for 568A and 568B standards
- removable rear cable management tray
- compatible with standard 19" equipment frames
- IDC termination using Clipsal GigaPro or Krone tool
- fully compliant to AS/NZS 3080:2003, ISO/IEC 11801 Edition 2 2002 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards.

CUSTOMER BENEFITS:
- contemporary design will improve the aesthetics of all installations
- complete with all mounting and cable fixing hardware
- rear cable management tray is supplied loose, allowing the installer to fit after termination
- the front labelling system provides a clear and efficient means of identifying circuits
- powder coated metal frame is robust and protects the patch panel from corrosion and scratching
- compliance with international standards gives the customer peace of mind that their network will perform to link, channel and application requirements.

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10MΩ minimum
Contact Resistance	2mΩ per contact
Temperature Range	-10˚C to +60˚C
Transmission Performance	exceeds ISO/IEC 11801 Class D AS/NZS 3080:2003 Class D

MECHANICAL CHARACTERISTICS
Modular Connector

RJ45 8-Pin Connector	FCC part 68, Subpart F and IEC-60603-7 compliant
Durability	750 insertion cycles min.
Material	Phosphor Bronze with 50 micro-inches of gold over 100 micro-inches nickel plating

IDC Connector

IDC Connector	Insulation slicing of 22 to 24 AWG (0.64 to 0.41mm)
Insulation Diameter (Wire)	0.70 - 1.60mm
Durability	10 insertions of any combination of wire gauge - one wire per slot
Connector Material	Phosphor Bronze with nickel plating

IDC Body & Cover Material Fire-Retardant, UL 94V-0, Plastic

CAT. NO.	DESCRIPTION
RJ5A1/16PP	Category 5e, 16 Port Patch Panel
RJ5A1/24PP	Category 5e, 24 Port Patch Panel

Unloaded Configurable Patch Panel

The Clipsal Professional Series Unloaded Configurable Patch Panel is a superior product delivering the best multimedia connectivity when used in conjunction with other Clipsal Professional Series Category 5e Modular Jacks.

The Clipsal Professional Series Unloaded Configurable Patch Panel can be fully or partly loaded with Category 5e or Category 6 Modular Jacks or with any of the Clipsal 30-Mech style adaptors. Panels are metal construction and powdercoated for protection against scratches and rust.

As an integral part of the Clipsal Professional Series, this product has a lifetime warranty and system performance guarantee when installed by a Clipsal Certified Installer or Endorsed Partner.

MECHANICAL CHARACTERISTICS

Panel material	1.6mm Mild Steel, powder coated

DIMENSIONS

Shipping Box	51mm (H) x 502mm (W) x 80mm (D)
Shipping Weight	400g

PRODUCT FEATURES:

- powdercoated to provide protection against scratches and rust
- available as a 1U 16 Port unloaded configurable Patch Panel
- available in Graphite Grey
- a sleek and elegant design appearance
- designation strip label holder provided
- comes with cage nut sets for rack mounting
- accepts other 30-Mech adaptors such as RJ45 BNC, 75Ω Coax, etc.
- compatible with standard 19" equipment.

CUSTOMER BENEFITS:

- the powdercoated metal provides protection from scratches while being installed and stops rust from forming, ensuring the full life of the product
- the panel is designed to accept all 30-Mech style adaptors and sockets - the world's most popular, which gives the customer the opportunity to configure their panels exactly as they require
- being fully configurable, the panel is very cost-effective, as the customer only needs to spend on the adaptors or ports that they need.

CAT. NO.	DESCRIPTION
RJ5H1/16PP	16 Port unloaded configurable Patch Panel