C2G 27575

C2G Legrand RJ45 Cat5e Modular Load Bar Connector (Model 27575) Instruction Manual

Model: 27575 | Brand: C2G Legrand

1. INTRODUCTION

This manual provides detailed instructions for the proper use and installation of the C2G Legrand RJ45 Cat5e Modular Load Bar Connectors, Model 27575. These connectors are designed to facilitate the termination of Cat5e network cables, ensuring reliable data transfer for various network applications. The integrated load bar simplifies wire alignment, contributing to consistent and error-free connections.

2. PRODUCT OVERVIEW

The C2G Legrand RJ45 Cat5e Modular Load Bar Connector is a clear polycarbonate plug featuring 50-micron gold-plated contacts. It is specifically designed for Cat5e network cables and includes a load bar component. The load bar assists in organizing and aligning the individual wires of an Ethernet cable before they are inserted into the main connector body and crimped.

Figure 2.1: A single C2G Legrand RJ45 Cat5e Modular Load Bar Connector. This image displays the clear polycarbonate body and the gold-plated contacts visible at the front of the connector.

Figure 2.2: Individual components of the RJ45 connector, including the main plug body and the separate load bar. This illustrates how the load bar is a distinct piece used for wire management.

Figure 2.3: A collection of C2G Legrand RJ45 Cat5e Modular Load Bar Connectors and their corresponding load bars, as typically supplied in a multipack.

3. SETUP AND INSTALLATION

Proper termination of an RJ45 connector is critical for network performance. The load bar simplifies the process of aligning the individual wires of a Cat5e cable.

Required Tools:

- RJ45 Crimping Tool
- Cable Stripper/Cutter
- Network Cable Tester (recommended)

Installation Steps:

1. **Prepare the Cable:** Carefully strip approximately 1 inch (2.5 cm) of the outer jacket from the end of the Cat5e cable, exposing the four twisted pairs of wires.
2. **Untwist and Straighten Wires:** Untwist each pair and straighten the individual wires. Arrange them according to the desired wiring standard (T568A or T568B). Ensure the wires are flat and parallel.
3. **Insert into Load Bar:** Carefully insert the straightened and ordered wires into the channels of the load bar. The load bar helps maintain the correct order and separation of the wires.
4. **Trim Wires:** Once all wires are correctly seated in the load bar and extend slightly beyond the end, use a cable cutter to trim the wires flush with the end of the load bar. This ensures all wires are the same length and make proper contact with the connector's pins.
5. **Insert Load Bar into Connector:** Slide the load bar, with the trimmed wires, into the RJ45 connector body. Ensure the wires align with the gold-plated pins inside the connector. The load bar should fit snugly into the connector.
6. **Crimp the Connector:** Place the assembled connector into the RJ45 crimping tool. Squeeze the handles firmly until the crimping tool fully compresses the connector. This action pushes the gold-plated pins down, piercing the wire insulation and making electrical contact with the copper conductors.
7. **Test Connection (Optional but Recommended):** Use a network cable tester to verify continuity and correct wiring for all eight conductors.

4. OPERATING PRINCIPLES

These RJ45 Cat5e modular connectors are designed for standard Ethernet data transfer. They support 10/100Base-T network communication. A unique feature of these connectors, when used in conjunction with appropriate network equipment, is their ability to facilitate the sharing of a single network cable drop between two devices.

In a 10/100Base-T Ethernet setup, only four of the eight available conductors in a Cat5e cable are typically used for data transmission. These connectors allow one device connected to port one to utilize the standard four conductors, while a second network device connected to port two uses the remaining four conductors that are usually unused. This requires two available ports on a network switch or router to connect the two devices sharing the single cable run.

5. MAINTENANCE

RJ45 connectors are generally maintenance-free once properly installed. To ensure longevity and reliable performance:

- **Avoid Physical Stress:** Do not bend or pull on the cable near the connector excessively, as this can damage the internal wire connections or the connector latch.
- **Keep Clean:** If connectors become dirty, gently wipe them with a clean, dry, lint-free cloth. Avoid using liquids or abrasive materials.
- **Inspect Latches:** Periodically check the connector's plastic latch for damage. A broken latch can prevent the connector from securely seating in a port.

6. TROUBLESHOOTING

If you experience network connectivity issues after installing these connectors, consider the following troubleshooting steps:

- **No Connectivity:**

  - Verify that the cable is properly seated in both the network device and the wall jack/switch port.
  - Use a network cable tester to check for continuity and correct wiring (T568A or T568B). Incorrect wiring is a common cause of connectivity failure.
  - Inspect the connector for any visible damage, such as bent pins or a broken latch.
  - Ensure the wires are fully inserted into the connector and crimped securely. Sometimes, wires may not make full contact.

- **Slow Network Speed:**

  - Confirm that all eight wires are correctly terminated and making good contact. Even a single faulty connection can degrade performance.
  - Ensure the cable length does not exceed the maximum recommended length for Cat5e (100 meters or 328 feet).
  - Check for sources of electromagnetic interference (EMI) near the cable run.

- **Intermittent Connection:**

  - This can often be caused by loose connections or damaged wires within the connector. Re-terminate the connector if necessary.
  - Ensure the cable is not being bent or stressed at sharp angles.

7. Specifications

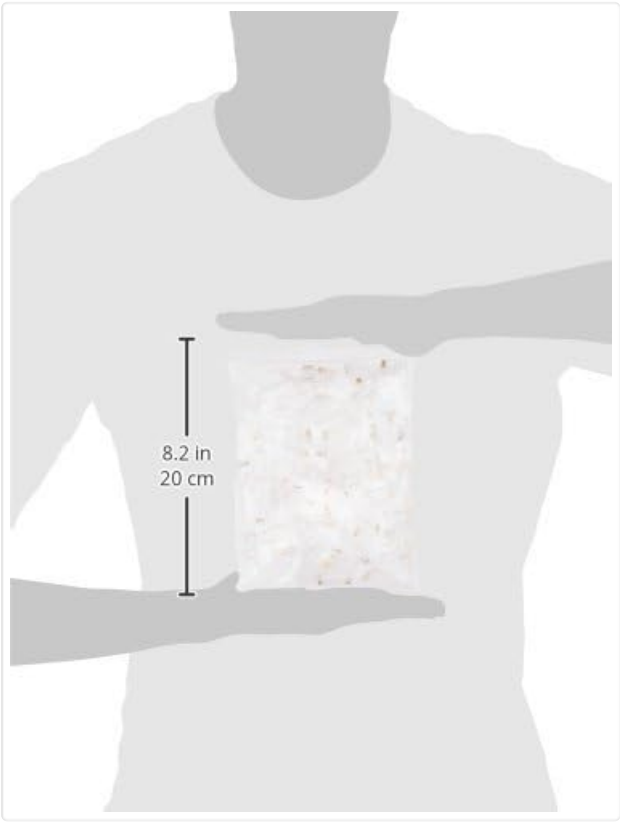| Feature	Detail
Model Number	27575
Brand	C2G Legrand
Connector Type	RJ45 Male
Cable Compatibility	Cat5e (Ethernet)
Contact Plating	50-micron Gold
Body Material	High-impact Clear Polycarbonate
Color	Clear
Network Support	10/100Base-T
Special Feature	Integrated Load Bar for easier wire alignment
Dimensions (approx.)	7.5 x 5.5 x 1 inches (packaging)
Item Weight (approx.)	3.2 ounces (packaging)
Quantity	100 per pack

Figure 7.1: Visual representation of the product's approximate dimensions, indicating the size of the packaging for the 100-pack of connectors.
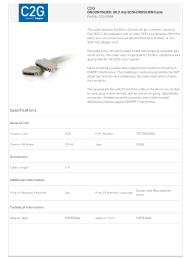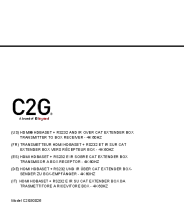
8. Warranty and Support

For information regarding product warranty, technical support, or to access additional resources, please visit the official C2G Legrand website or contact their customer service department. Contact details are typically available on the product packaging or the manufacturer's website.

Online Resources: www.c2g.com

Related Documents - 27575

	C2G 6ft (1.8m) SCSI-2 MD50 M/M Cable - Product Specifications Detailed specifications for the discontinued C2G 6ft (1.8m) SCSI-2 MD50 M/M Cable (Part No. CG-03564), including general information, dimensions, and technical details.
	C2G USB-C Triple Display Docking Station - 4K 60Hz Comprehensive guide for the C2G USB-C Triple Display Docking Station (Model C2G54535), featuring product overview, features, package contents, installation, safety, and warranty information. Supports up to 4K resolution at 60Hz.
	C2G 29973 Wireless Conference Room Video Hub - HDMI and USB-C User Manual User manual for the C2G 29973 Wireless Conference Room Video Hub, providing detailed instructions on setup, installation, operation, troubleshooting, product specifications, and firmware updates for seamless wireless HDMI and USB-C video and audio transmission.
	C2G Networking and DataComm Quick SKU Finder: Transceivers and Cables Comprehensive guide to C2G networking and data communication products, including transceivers, patch cables (Cat5e, Cat6, Cat6a), fiber optic cables, and direct attach cables (DAC). Features SKUs, item descriptions, and OEM equivalents for Cisco, Juniper, HP, Brocade, Finisar, and more.
	C2G HDMI HDBaseT + RS232 and IR over Cat Extender Box Transmitter to Receiver - 4K 60Hz User Manual Comprehensive user manual for the C2G HDMI HDBaseT + RS232 and IR over Cat Extender Box (Model C2G30026), covering product overview, features, installation, wiring, safety information, and warranty.

[C2G Superbooster USB Camera Extenders Compatibility Test](#)
Compatibility test results for C2G Superbooster USB Camera Extenders (C2G54275, C2G54276, C2G54277) across various camera models and host computers, detailing resolution and frame rate performance.

Documents - C2G – 27575

[pdf] Specifications Warranty

Features Benefits Specifications C2G 16 mar 2022 — The right solution to customize your lengths of Cat5E network cables These modular plugs are manufactured from high impact clear polycarbonate withstand CG 27575 Web Cutsheet cablestogo p print |||
C2G RJ45 Cat5E Modular Plug with Load Bar for Round Solid/Stranded Cable Multipack 100-Pack Part No. CG-**27575** The right solution to customize your lengths of Cat5E network cables. These modular plugs are manufactured from high-impact clear polycarbonate to withstand everyday wear and tear, and h...
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RJ45 Cat5 Modular with Load ar Plug for Round olid/tranded Cale MHeullolt,iGpUackT 100 pack 2.6 ... k application 56 In tock 1 Roll over image to zoom in 2.6 16 Review Product # : Connector 1 : **27575** 1 RJ-45 Male Need it hipped toda Place our order efore the timer run out 01: 52: 01 prin...
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[pdf] Catalog

PRODUCT CATALOG seamlessly with the TruLink Audio Amplifier to provide a complete This 2 port USB 3 0 SuperSpeed PCI Express card adds capabilities Starin C2G 2013 Catalog c2g starin biz file pc networking audio/video modular A/V cabling PRODUCT CATALOG cable connectivity solutions TABLE ... piece design Load bar ensures Cat5e and Cat6 performance Item#DescriptionMSRP 27572 27573 27574 **27575** RJ45 Cat5e For Round Solid/Stranded Cable - 10Pk.................... 8.99 RJ45 Cat5e For Ro...
lang:af score:14 filesize: 52.63 M page_count: 228 document date: 2012-06-06