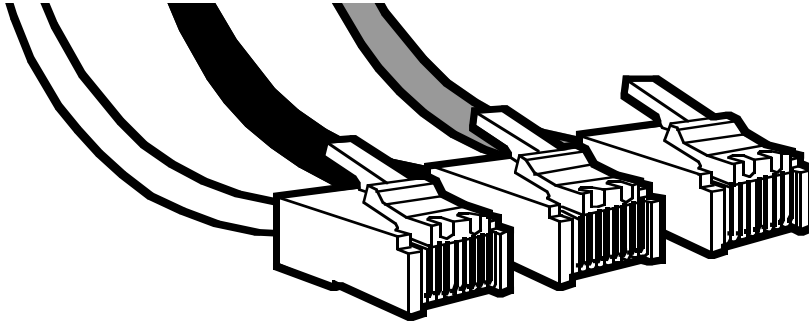


# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

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### Coloured Category 5 Patch Cable



*Run cable to all your 100-Mbps devices—and use color to keep everything straight.*

#### Key Features

- ▶ Different colours make it easy to distinguish between different applications and installations.
- ▶ Category 5 is the only type of twisted-pair cable recommended for 100BASE-TX.
- ▶ ETL verified to TIA 568 TSB 40A specifications.
- ▶ Stranded 24 AWG wire used for maximum flexibility.
- ▶ UL<sup>®</sup> listed, CSA approved.
- ▶ Guaranteed for life!

**W**ith multicoloured Category 5 Patch Cables, you can sort out the mess of cables in your patching centers and wiring closets.

Use these patch cables for connecting your workstation NICs (network interface cards) to the wallplate, patch panels, and other equipment such as hubs.

Made from stranded conductors, these patch cables are excellent for applications that call for repeated flexing—without damaging the cable or data transmission. Users can plug, unplug, and move their computer stations without worrying about cable integrity.

These cables are ideal for 4- or 16-Mbps Token Ring, and 10BASE-T or 100BASE-TX Ethernet networks.

#### Specifications

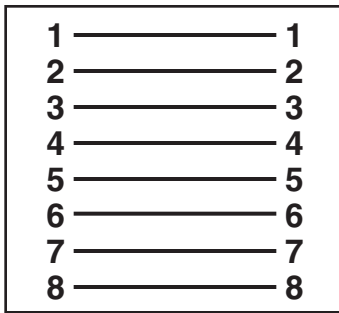
|   |  |
|---|--|
| <b>Cable Construction</b> — PVC             | <b>Jacket</b> — PVC                                      |
| <b>Cable Type</b> — 4-pair stranded UTP     | <b>Mutual Capacitance</b> — 15 pF/ft.                    |
| <b>Conductor Gauge</b> — 24 AWG (7 × 32)    | <b>Number of Conductors</b> — 8 (4 pairs)                |
| <b>Conductor Material</b> — Stranded copper | <b>Resistance</b> — 28.6 ohms/304.8 m (1000 ft.) at 20°C |
| <b>Diameter</b> — 0.52 cm (0.205")          | <b>Standards</b> — EIA/TIA TSB 40A Category 5            |
| <b>Frequency</b> — Up to 100 MHz            | <b>Wiring Type</b> — 568B                                |
| <b>Hood Assembly</b> — Plastic RJ-45        | <b>Connectors</b> — RJ-45                                |
| <b>Impedance</b> — 100 ± 15 ohms            |  |

| Attenuation (dB) |       |       |       |        |        |        |        |           |          |         |
|------------------|-------|-------|-------|--------|--------|--------|--------|-----------|----------|---------|
| Frequency Length | 1 MHz | 4 MHz | 8 MHz | 10 MHz | 16 MHz | 20 MHz | 25 MHz | 31.25 MHz | 62.5 MHz | 100 MHz |
| 0.9m (3 ft.)     | 0.02  | 0.05  | 0.08  | 0.09   | 0.09   | 0.11   | 0.14   | 0.15      | 0.24     | 0.37    |
| 1.8m (6 ft.)     | 0.05  | 0.12  | 0.15  | 0.16   | 0.17   | 0.21   | 0.24   | 0.20      | 0.30     | 0.60    |
| 3.0m (10 ft.)    | 0.08  | 0.15  | 0.18  | 0.20   | 0.25   | 0.31   | 0.34   | 0.52      | 0.58     | 0.81    |
| 6.0m (20 ft.)    | 0.15  | 0.30  | 0.32  | 0.37   | 0.54   | 0.58   | 0.68   | 0.71      | 0.97     | 1.36    |

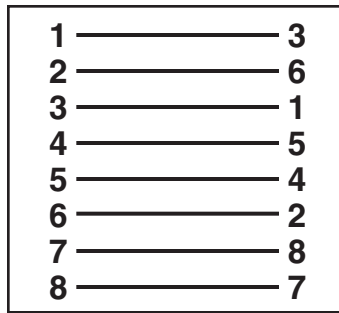
| Near-End Crosstalk (NEXT) (dB) |       |       |       |        |        |        |        |           |          |         |
|--------------------------------|-------|-------|-------|--------|--------|--------|--------|-----------|----------|---------|
| Frequency                      | 1 MHz | 4 MHz | 8 MHz | 10 MHz | 16 MHz | 20 MHz | 25 MHz | 31.25 MHz | 62.5 MHz | 100 MHz |
| 0.9 - 4.0m (3-30 ft.)          | 68    | 58    | 55    | 54     | 52     | 50     | 48     | 46        | 43       | 36      |

# How the Cables Are Pinned and Paired

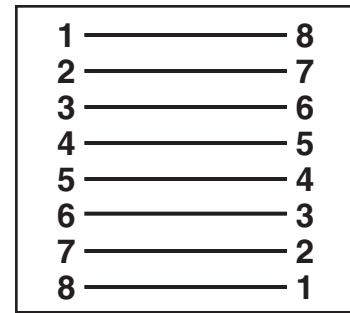
## Pinouts



*Straight-through pinning*

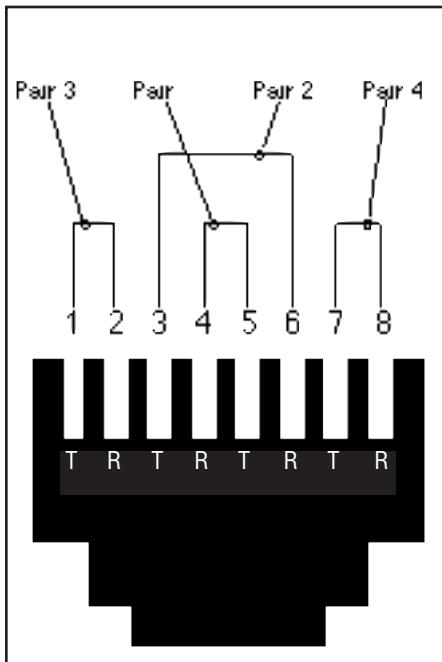


*RG568A and RG568B  
Crossover Cable*

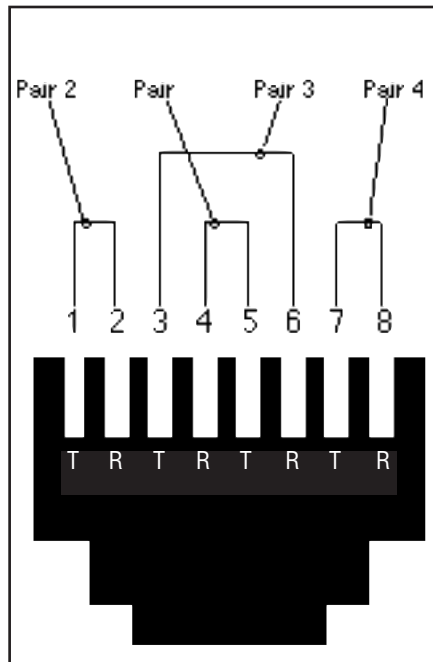


*USOC Crossover Cable*

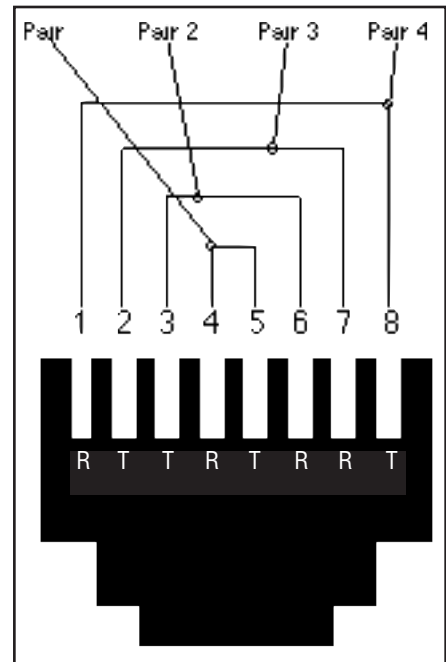
## Pairing



*RG568A Pairing*



*RG568B Pairing*



*USOC Pairing*

## Standard 4-Pair Wiring Color Codes

|        |   |              |        |   |             |
|--------|---|--------------|--------|---|-------------|
| Pair 1 | T | White/Blue   | Pair 3 | T | White/Green |
|        | R | Blue/White   |        | R | Green/White |
| Pair 2 | T | White/Orange | Pair 4 | T | White/Brown |
|        | R | Orange/White |        | R | Brown/White |

*NOTE: For 6-wire jacks use pair 1, 2, and 3 colour codes. For 4-wire jacks use pair 1 and 2 colour codes.*

# Ordering Information

## CAT5® Color Patch Cables (RJ-45 to RJ-45), 100-MHz, 4-Pair, 568B

| Straight-Through | BLUE         | GREEN        | RED          | YELLOW       | PINK         | BLACK        | BEIGE        |
|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.3-m (1-ft.)    | EVNSL01-0001 | EVNSL02-0001 | EVNSL03-0001 | EVNSL04-0001 | EVNSL06-0001 | EVNSL07-0001 | EVMSL05-0001 |
| 0.9-m(3-ft.)     | EVNSL01-0003 | EVNSL02-0003 | EVNSL03-0003 | EVNSL04-0003 | EVNSL06-0003 | EVNSL07-0003 | EVMSL05-0003 |
| 1.8-m(6-ft.)     | EVNSL01-0006 | EVNSL02-0006 | EVNSL03-0006 | EVNSL04-0006 | EVNSL06-0006 | EVNSL07-0006 | EVMSL05-0006 |
| 3.0-m (10-ft.)   | EVNSL01-0010 | EVNSL02-0010 | EVNSL03-0010 | EVNSL04-0010 | EVNSL06-0010 | EVNSL07-0010 | EVMSL05-0010 |
| 4.6-m(15-ft.)    | EVNSL01-0015 | EVNSL02-0015 | EVNSL03-0015 | EVNSL04-0015 | EVNSL06-0015 | EVNSL07-0015 | EVMSL05-0015 |
| 6.1-m (20-ft.)   | EVNSL01-0020 | EVNSL02-0020 | EVNSL03-0020 | EVNSL04-0020 | EVNSL06-0020 | EVNSL07-0020 | EVMSL05-0020 |
| 7.6-m(25-ft.)    | EVNSL01-0025 | EVNSL02-0025 | EVNSL03-0025 | EVNSL04-0025 | EVNSL06-0025 | EVNSL07-0025 | EVMSL05-0025 |
| 9.1-m(30-ft.)    | EVNSL01-0030 | EVNSL02-0030 | EVNSL03-0030 | EVNSL04-0030 | EVNSL06-0030 | EVNSL07-0030 | EVMSL05-0030 |
| 15.2-m(50-ft.)   | EVNSL01-0050 | EVNSL02-0050 | EVNSL03-0050 | EVNSL04-0050 | EVNSL06-0050 | EVNSL07-0050 | EVMSL05-0050 |
| 30.5-m (100-ft.) | EVNSL01-0100 | EVNSL02-0100 | EVNSL03-0100 | EVNSL04-0100 | EVNSL06-0100 | EVNSL07-0100 | EVMSL05-0100 |
| Custom Lengths   | EVNSL01      | EVNSL02      | EVNSL03      | EVNSL04      | EVNSL06      | EVNSL07      | EVMSL05      |

### Crossover

|                |  |  |  |  |  |  |                              |
|----------------|--|--|--|--|--|--|------------------------------|
| 0.3-m (1-ft.)  |  |  |  |  |  |  | <b>BEIGE</b><br>EVCRB05-0001 |
| 0.9-m (3-ft.)  |  |  |  |  |  |  | EVCRB05-0003                 |
| 1.8-m (6-ft.)  |  |  |  |  |  |  | EVCRB05-0006                 |
| 10-ft.(3.0-m)  |  |  |  |  |  |  | EVCRB05-0010                 |
| 6.1-m (20-ft.) |  |  |  |  |  |  | EVCRB05-0020                 |
| Custom Lengths |  |  |  |  |  |  | EVCRB05                      |

*These colors are available as special orders. Call Technical Support.*

## CAT5® 100-MHz Patch Cable, 568A

| Straight-Pinned | BEIGE       |
|-----------------|-------------|
| 0.3-m(1-ft.)    | EVSA05-0001 |
| 0.9-m(3-ft.)    | EVSA05-0003 |
| 1.8-m(6-ft.)    | EVSA05-0006 |
| 3.0-m (10-ft.)  | EVSA05-0010 |
| 6.1-m (20-ft.)  | EVSA05-0020 |
| Custom Lengths  | EVSA05      |

### Crossover

|                |              |
|----------------|--------------|
| 0.3-m (1-ft.)  | EVCRA05-0001 |
| 0.9-m (3-ft.)  | EVCRA05-0003 |
| 1.8-m (6-ft.)  | EVCRA05-0006 |
| 3.0-m (10-ft.) | EVCRA05-0010 |
| 6.1-m (20-ft.) | EVCRA05-0020 |
| Custom Lengths | EVCRA05      |

## CAT5® 100-MHz Patch Cable, USOC

| Straight-Pinned | BEIGE       |
|-----------------|-------------|
| 1-ft. (0.3-m)   | EVSU05-0001 |
| 3-ft. (0.9-m)   | EVSU05-0003 |
| 6-ft. (1.8-m)   | EVSU05-0006 |
| 10-ft. (3.0-m)  | EVSU05-0010 |
| 20-ft. (6.1-m)  | EVSU05-0020 |
| Custom Lengths  | EVSU05      |

### Crossover

|                |              |
|----------------|--------------|
| 1-ft. (0.3-m)  | EVCRU05-0001 |
| 3-ft. (0.9-m)  | EVCRU05-0003 |
| 6-ft. (1.8-m)  | EVCRU05-0006 |
| 10-ft. (3.0-m) | EVCRU05-0010 |
| 20-ft. (6.1-m) | EVCRU05-0020 |
| Custom Lengths | EVCRU05      |

NOTE: Custom colours for 568A and USOC cables are available as special orders. Call Technical Support on 0118 965 6000