

Patch Cords, Category 5e

Patch Cord UTP, Category 5e, Standard Plug

PC-LPM-UTP-RJ45-RJ45-C5e-YYM-XX



Various Jacket Colors for patch cords of all categories



black (BK)



blue (BL)



orange (OR)



red (RD)



green (GN)



gray (GY)



white (WH)



yellow (YL)

Specifications	Fire resistant: CM
Materials	Cable: Conductor: 7 copper wires $\varnothing 0.008"$ (0.20 mm), 24 AWG Diameter of insulated conductor: $0.039" \pm 0.002"$ (0.98 ± 0.05 mm) Number of pairs: 4 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown Jacket: PVC $\varnothing 0.22" \pm 0.008"$ (5.5 ± 0.2 mm) Plugs: 2 pieces RJ-45 8P8C Contact: 50 microinches (1.27 micron) gold plated copper alloy Molded Boot Material: PVC
Ordering information	PC-LPM-UTP-RJ45-RJ45-C5e-YYM-XX Patch cord UTP, category 5e, standard plug (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m), 19.68' (6 m), 22.96' (7 m), 26.25' (8 m), 29.53' (9 m), 32.8' (10 m), 49.21' (15 m); XX – color: black (BK), blue (BL), green (GN), gray (GY), orange (OR), red (RD), white (WH), yellow (YL)), see various jacket colors

Patch Cord UTP, Category 5e, Short Plug, with Boot and Bubble

PC-SPM-UTP-RJ45-RJ45-C5e-YYM-XX



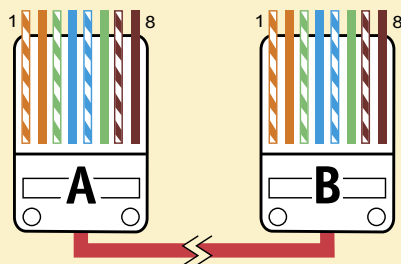
Specifications	Fire resistant: CM
Materials	Cable: Conductor: 7 copper wires $\varnothing 0.008"$ (0.20 mm), 24 AWG Diameter of insulated conductor: $0.039" \pm 0.002"$ (0.98 ± 0.05 mm) Number of pairs: 4 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown Jacket: PVC $\varnothing 0.22" \pm 0.008"$ (5.5 ± 0.2 mm) Plugs: 2 pieces RJ-45 8P8C (short plug, with boot and bubble) Contact: 50 microinches (1.27 micron) gold plated copper alloy Molded Boot Material: PVC
Ordering information	PC-SPM-UTP-RJ45-RJ45-C5e-YYM-XX Patch cord UTP, category 5e, short plug, with boot and bubble (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m), 19.68' (6 m), 22.96' (7 m), 26.25' (8 m), 29.53' (9 m), 32.8' (10 m), 49.21' (15 m); XX – color: black (BK), blue (BL), green (GN), gray (GY), orange (OR), red (RD), white (WH), yellow (YL)), see various jacket colors

Crossover Patch Cord UTP, Category 5e, Standard Plug

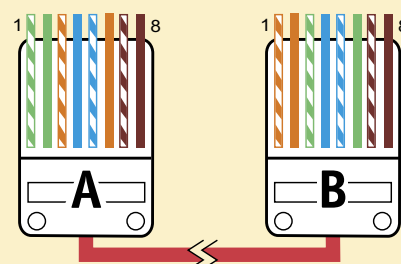
PC-LPM-UTP-RJ45-REV-RJ45-C5e-YYM-XX



Wiring scheme in standard patch cord (1)



Wiring scheme in crossover patch cord (2)



Specifications

Fire resistant: CM

Materials

Cable:

Conductor: 7 copper wires $\varnothing 0.008"$ (0.20 mm), 24 AWG

Diameter of insulated conductor: $0.039" \pm 0.002"$ (0.98 ± 0.05 mm)

Number of pairs: 4

Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown

Jacket: PVC $\varnothing 0.22" \pm 0.008"$ (5.5 ± 0.2 mm)

Plugs:

2 pieces RJ-45 8P8C

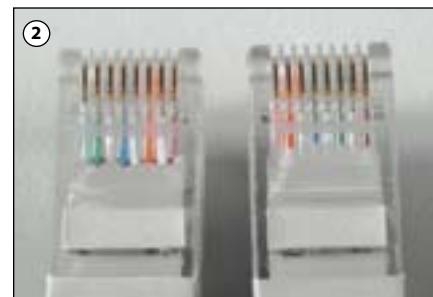
Contact: 50 microinches (1.27 micron) gold plated copper alloy

Molded Boot Material: PVC

Ordering information

PC-LPM-UTP-RJ45-REV-RJ45-C5e-YYM-XX

Crossover patch cord UTP, category 5e, standard plug (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m), 19.68' (6 m), 22.96' (7 m), 26.25' (8 m), 29.53' (9 m), 32.8' (10 m), 49.21' (15 m); XX – color: black (BK), blue (BL), green (GN), gray (GY), orange (OR), red (RD), white (WH), yellow (YL)), see various jacket colors on page 66



Crossover Patch Cord UTP, Category 5e, Short Plug, with Boot and Bubble

PC-SPM-UTP-RJ45-REV-RJ45-C5e-YYM-XX

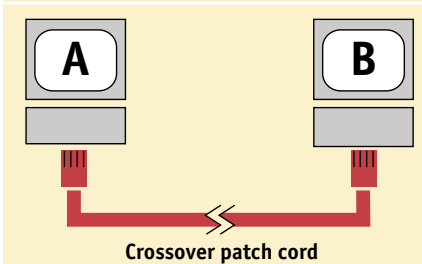




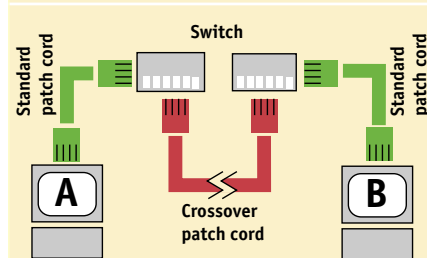
Specifications	Fire resistant: CM
Materials	Cable: Conductor: 7 copper wires $\varnothing 0.008''$ (0.20 mm), 24 AWG Diameter of insulated conductor: $0.039'' \pm 0.002''$ (0.98 ± 0.05 mm) Number of pairs: 4 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown Jacket: PVC $\varnothing 0.22'' \pm 0.008''$ (5.5 ± 0.2 mm) Plugs: 2 pieces RJ-45 8P8C (short plug, with boot and bubble) Contact: 50 microinches (1.27 micron) gold plated copper alloy Molded Boot Material: PVC
Ordering information	PC-SPM-UTP-RJ45-REV-RJ45-C5e-YYM-XX Crossover patch cord UTP, category 5e, short plug, with boot and bubble (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m), 19.68' (6 m), 22.96' (7 m), 26.25' (8 m), 29.53' (9 m), 32.8' (10 m), 49.21' (15 m); XX – color: black (BK), blue (BL), green (GN), gray (GY), orange (OR), red (RD), white (WH), yellow (YL)), see various jacket colors on page 66



Application of crossover patch cord
"Computer-Computer" connection



Application of crossover patch cord
"Computer-Switch" connection



Shielded Patch Cord STP, Category 5e

PC-LPM-STP-RJ45-RJ45-C5e-YYM-XX



Materials	Cable: Conductor: 7 copper wires $\varnothing 0.008''$ (0.20 mm), 24 AWG Insulation: High Density Polyethylene (HDPE) Diameter of insulated conductor: $0.039'' \pm 0.002''$ (0.98 ± 0.05 mm) Number of pairs: 4 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown Shield: aluminum foil Drain wire: 7 wires $\varnothing 0.008''$ (0.20 mm) Jacket: PVC $\varnothing 0.22'' \pm 0.008''$ (5.5 ± 0.2 mm) Plugs: 2 pieces RJ-45 8P8C Contact: 50 microinches (1.27 micron) gold plated copper alloy Molded Boot Material: PVC
Ordering information	PC-LPM-STP-RJ45-RJ45-C5e-YYM-XX Shielded patch cord STP, category 5e (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m), 19.68' (6 m), 22.96' (7 m), 26.25' (8 m), 29.53' (9 m), 32.8' (10 m), 49.21' (15 m); XX – color: black (BK), blue (BL), green (GN), gray (GY), orange (OR), red (RD), white (WH), yellow (YL)), see various jacket colors on page 66

Crossover Patch Cord STP, Category 5e, Shielded

PC-LPM-STP-RJ45-REV-RJ45-C5e-YYM-XX



Materials	<p>Cable: Conductor: 7 copper wires Ø0.008" (0.20 mm), 24 AWG Insulation: High Density Polyethylene (HDPE) Diameter of insulated conductor: 0.039"±0.002" (0.98±0.05mm) Number of pairs: 4 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown Shield: aluminum foil Drain wire: 7 wires Ø0.008" (0.20 mm) Jacket: PVC Ø0.22"±0.008" (5.5±0.2mm)</p> <p>Plugs: 2 pieces RJ-45 8P8C Contact: 50 microinches (1.27 micron) gold plated copper alloy Molded Boot Material: PVC</p>
Ordering information	<p>PC-LPM-STP-RJ45-REV-RJ45-C5e-YYM-XX Crossover patch cord STP, category 5e, shielded (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m), 19.68' (6 m), 22.96' (7 m), 26.25' (8 m), 29.53' (9 m), 32.8' (10 m), 49.21' (15 m); XX – color: black (BK), blue (BL), green (GN), gray (GY), orange (OR), red (RD), white (WH), yellow (YL)), see various jacket colors on page 66</p>



Patch Cords, Category 6

Patch Cord UTP, Category 6, Standard Plug

PC-LPM-UTP-RJ45-RJ45-C6-YYM-XX



Materials	<p>Cable: Conductor: 7 copper wires Ø0.008" (0.20 mm), 24 AWG Insulation: High Density Polyethylene (HDPE) Diameter of insulated conductor: 0.039"±0.002" (0.98±0.05 mm) Number of pairs: 4 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown</p> <p>Plugs: 2 pieces RJ-45 8P8C, category 6, for patch cable Contact: 50 microinches (1.27 micron) gold plated copper alloy Molded Boot Material: PVC</p>
Ordering information	<p>PC-LPM-UTP-RJ45-RJ45-C6-YYM-XX Patch cord UTP, category 6, standard plug (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m); XX – color: black (BK), blue (BL), green (GN), gray (GY), orange (OR), red (RD), white (WH), yellow (YL)), see various jacket colors on page 66</p>



Patch Cords, 110 type

110 type patch cords for cross panels can be of the following types: 1-, 2- and 4-pair patch cords, which are made of the patch plugs. When switching, the main cable gets connected to the cross panel with the help of patch plugs. There, patch cords serve as a jumper link for signal transmission between two lines on the cross panel. The advantage of cross panels is that they enable you to establish a high data speed connection (Category 5e), and switches both telephone and computer lines simultaneously. Additionally, combined patch cords (ex.: 110 type – RJ-45 or 110 type – RJ-12) help to establish flexible connections of cross and patch panels.

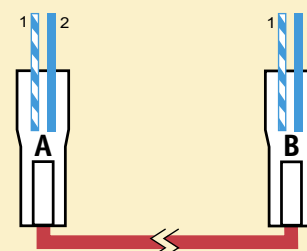
Patch cords are made of stranded cable with 2, 4 and 8 conductors. In order to establish high data speed connection, the 4-pair cable should meet the category 5e standards. 1- and 2-pair patch cords are used mostly for telephone line switching..

Patch Cord 110 type, 1 pair

PC-110-110-1P-CX-ZM-GY



Scheme of wiring layout for 1-pair patch cord, type 110



Materials

Cable:

Conductor: 7 copper wires $\varnothing 0.008"$ (0.20 mm), 24 AWG
Diameter of insulated conductor: $0.039" \pm 0.002"$ (0.98 ± 0.05 mm)
Number of pairs: 1
Color of twisted pairs: orange-white/orange
Jacket: PVC $\varnothing 0.1" \pm 0.008"$ (2.6 ± 0.2 mm)
Jacket color: light gray

Plugs:

2 pieces, 1-pair 110 type, for stranded (patch) cable
Material: PC
PIN: Phosphor bronze with gold plating

Ordering information

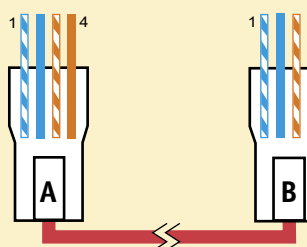
PC-110-110-1P-CX-ZM-GY
Patch cord 110 type, 1 pair (Z – length: 3.28'–6.56' (1 – 2 m))

Patch Cord 110 type, 2 pairs

PC-110-110-2P-C5-ZM-GY



Scheme of wiring layout for 2-pair patch cord, type 110



Materials

Cable:

Conductor: 7 copper wires $\varnothing 0.008"$ (0.20 mm), 24 AWG
Diameter of insulated conductor: $0.039" \pm 0.002"$ (0.98 ± 0.05 mm)
Number of pairs: 2
Color of twisted pairs: blue-white/blue, orange-white/orange
Jacket: PVC $\varnothing 0.17" \pm 0.008"$ (4.2 ± 0.2 mm)
Jacket color: light gray

Plugs:

2 pieces, 2-pair 110 type, for stranded (patch) cable
Material: polycarbonate (PC)
PIN: Phosphor bronze with gold plating

Ordering information

PC-110-110-2P-C5-ZM-GY
Patch cord 110 type, 2 pairs, category 5 (Z – length: 3.28'–6.56' (1m–2m))

Patch Cord 110 type, 4 pairs

PC-110-110-2P-C5-ZM-GY

**Materials****Cable:**

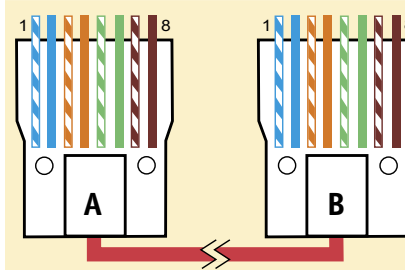
Conductor: 7 copper wires $\varnothing 0.008''$ (0.20 mm), 24 AWG
 Diameter of insulated conductor: $0.039'' \pm 0.002''$ (0.98 ± 0.05 mm)
 Number of pairs: 4
 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
 Jacket: PVC $\varnothing 0.22'' \pm 0.008''$ (5.5 ± 0.2 mm)
 Jacket color: light gray

Plugs:

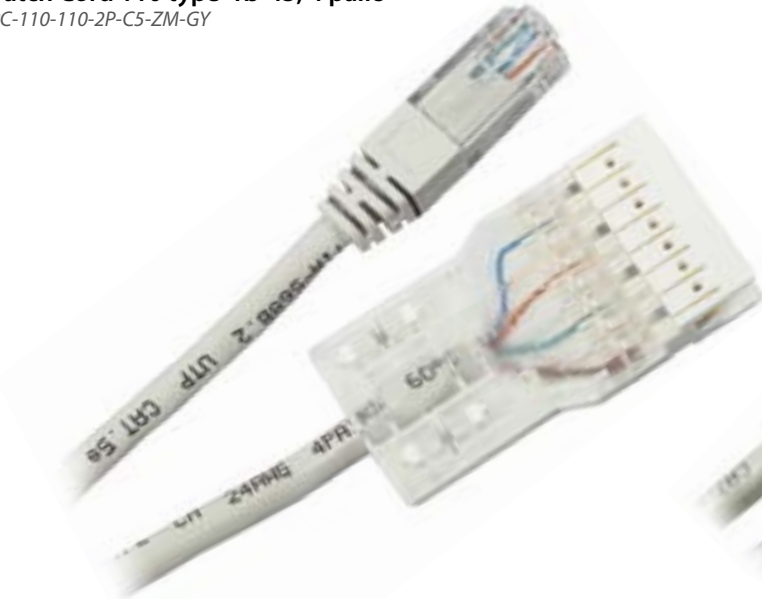
2 pieces, 4-pair 110 type, for stranded (patch) cable
 Material: polycarbonate (PC)
 PIN: Phosphor bronze with gold plating

Ordering information

PC-110-110-4P-C5e-ZM-GY
 Patch cord 110 type, 4 pairs, category 5e (Z – length: 3.28'–6.56' (1–2 m))

Scheme of wiring scheme for 4-pair patch cord, type 110**Patch Cord 110 type–RJ-45, 4 pairs**

PC-110-110-2P-C5-ZM-GY

**Materials****Cable:**

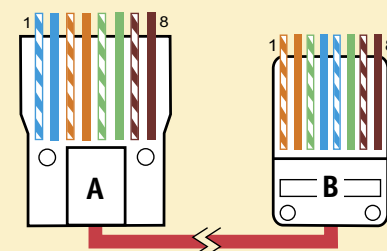
Conductor: 7 copper wires $\varnothing 0.008''$ (0.20 mm), 24 AWG
 Diameter of insulated conductor: $0.039'' \pm 0.002''$ (0.98 ± 0.05 mm)
 Number of pairs: 4
 Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
 Jacket: PVC $\varnothing 0.22'' \pm 0.008''$ (5.5 ± 0.2 mm)
 Jacket color: light gray

Plugs:

1 piece 8P8C
 1 piece 110 type, for stranded (patch) cable
 The material of 110 type plug: PC
 PIN (110 type): Phosphor bronze with gold plating

Ordering information

PC-110-RJ45-4P-C5e-ZM-GY
 Patch cord 110 type – RJ-45, 4 pairs, category 5e (Z – length: 3.28'–6.56' (1–2 m))

Scheme of wiring scheme for type 110 - RJ-45

Telephone Patch Cord

Telephone Patch Cord

PC-RJ12-RJ12-YYM-XX



Telephone Patch Cord, Molded

PCM-RJ12-RJ12-YYM-WH



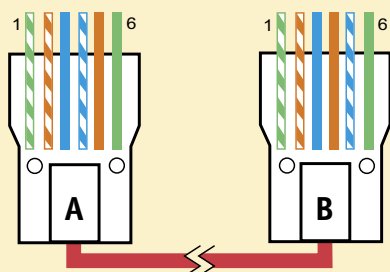
Telephone patch cords are used for connection of telephone sets. They can be used separately or included in the telephone network. Telephone patch cords are also used to switch ports of the telephone patch panels. The length of patch cord is chosen depending on the distance of the telephone set from the surface box (0.5 to 10 m). Hyperline patch cords can be supplied in different lengths: 1.64'; 3.28'; 4.92'; 6.52'; 9.84'; 16.4'; 32.8' (0.5 m, 1 m, 1.5 m, 2 m, 3 m, 5 m, 10 m).

Telephone patch cords have. All the boots are built up to the cords' patch cord in accordance with special hot technology. When the modular plug is crimped, it goes into a special mold where the boot is formed from hot PVC. Molded patch cord has several advantages in comparison with ones that have detachable boots:

1. it sets more firmly on the cable
2. it protects cable from excessive bending
3. molded boot does not adhere to the cable



Scheme of wiring layout for telephone patch cord



Materials

Cable:

Conductor: 7 copper wires Ø0.005" (0.12 mm), 28 AWG
Insulation: polypropylene (PP)
Diameter of insulated conductor: 0.037" ± 0.002" (0.95 ± 0.05 mm)
Number of wires: 4
Color of wires: black, red, green, yellow
Jacket: PVC white color 0.1"x0.2" (2.5 x 5.0 mm)

Plugs:

2 pieces, RJ-12 6P4C
Molded Boot Material: PVC, white color

Ordering information

PC-RJ12-RJ12-YYM-XX
Telephone patch cord, YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m)
PCM-RJ12-RJ12-YYM-WH
Telephone patch cord, molded (YY – length: 1.64' (0.5 m), 3.28' (1 m), 4.92' (1.5 m), 6.56' (2 m), 9.84' (3 m), 16.4' (5 m), 32.8' (10 m))