

## 72 Series - Network Products

### Tech Tips and Info

#### Unshielded (UTP) vs. Shielded (STP) Twisted Pair Cables

Shielded cables protect data against electromagnetic interference and radio-frequency interference (EMI/RFI). In "noisy" environments it is recommended that STP cables be used in order to keep data in its original form.

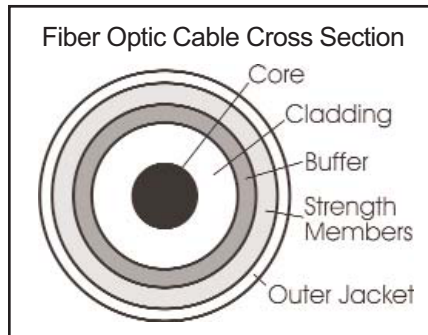
#### Choosing Solid & Stranded Patch Cables

1. Use UTP Solid Cables for runs between 2 wiring closets or from the wiring closet to a wall plate. They should not be flexed, bent, or twisted repeatedly.
2. Use Stranded Patch Cables to connect workstations to the wall plate with patch panels and other equipment such as hubs. They are excellent for applications that require repeated flexing.
3. Since attenuation is higher in stranded cables than in solid conductor cables, the stranded cable runs should be minimized to reduce the chance of introducing more attenuation into the system.

#### Fiber Optic Cables

Fiber Styles: Fiber optic cable is offered in two basic styles: Single-Mode and Multi-Mode. Single-Mode fiber is generally used in long distance, high-capacity voice applications like telephone transmission. Single-Mode fiber is also used in new long distance gigabit networking applications. Multi-Mode fiber is the computer industry standard for data applications, including most local area networks or LANs.

Fiber Advantages: Fiber offers some superb advantages to copper cable. It has the ability to move massive amounts of data at very high speeds without electro-magnetic or radio frequency interference. It is compact, highly secure and maintains excellent data integrity even over great distances.



FDDI (Fiber Optic Distributed Data Interface): FDDI is the standard that establishes minimum performance characteristics for cable fiber sizes and its recommended redundant ring topology.

Fiber optic cable typically comes in pairs, with one fiber for data transmission, and the other of receiving. Zipcord, or duplex cabling is common within fiber networks, and consists of two fiber strands molded together.

Construction: The heart of the fiber optic cable is the glass fiber itself. This glass strand, called the Core, is surrounded by additional glass or Cladding, shown in the illustration. The light pulses of data travel down the cable within the core, while the cladding reflects errant light waves back into the core.

Fiber is described in specific diameter terms using micron measurement, such as 62.5/125. This particular cable would have a core diameter of 62.5 microns, and an overall diameter, combining core and cladding, of 125 microns.

Fiber cables can also have a Tight Buffer or a Loose Buffer. A tight buffer is a plastic coating directly on the glass itself that is break resistant. Most indoor fiber cable is tight buffered. Loose buffer construction permits expansion and contraction of the cable without damage to the optical fiber, and is ideal for outdoor applications.

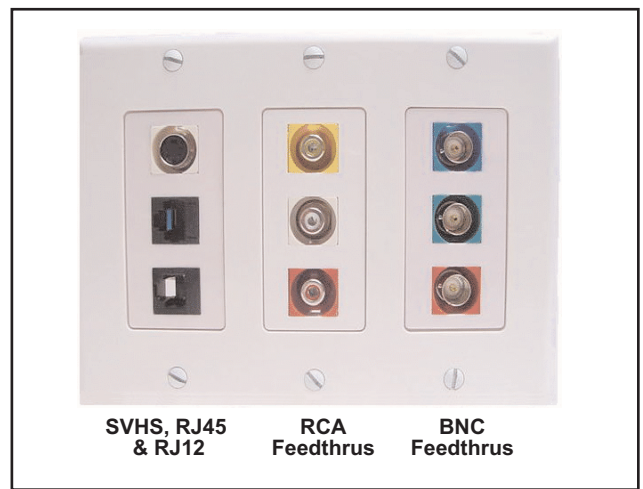
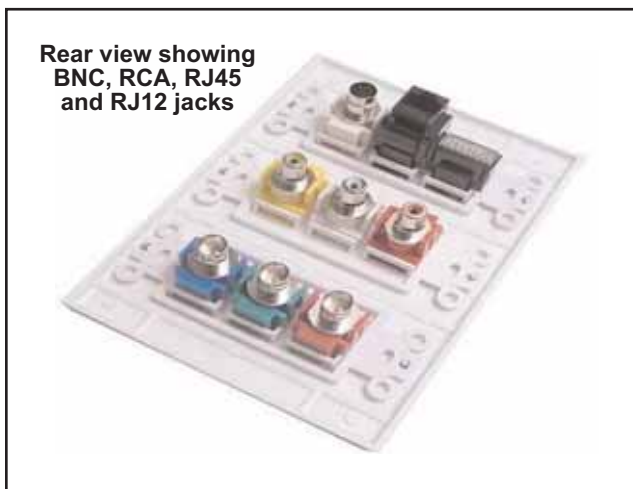
Strength Members are used to increase the durability of a fiber cable. Primarily for indoor installations, they allow the cable to support itself during installations and while hanging.

The Outer Jacket typically consists of either Plenum or PVC. PVC is commonly used for outdoor or external cabling, while Plenum is required for cabling through airways and walls.

Outdoor cable can have additional features, such as corrugated steel armor for protection against rodents and below-ground hazards.

What cable to use and what features it should have will depend on your individual needs and the particular installation environment. What ever you require, you can be sure that CALRAD will deliver!

Calrad's new recessed, flushfaced keystone inserts provide a variety of audio and video options. These easy to use snap-inserts come in a variety of colors and give a functional yet desirable appearance, as well as providing easily identifiable locations (ie. RGBP). Please contact Calrad if you have any questions regarding these new items



# CALRAD

## 72 - Series Network Products -

keystone audio/video  
and data keystone  
accessories



CAT 5e

**72-305  
8 POSITION FEMALE  
TO FEMALE  
KEYSTONE FEED-  
THRU JACK**

CAT5e RJ45 female to female feed-thru keystone insert.  
Color: black.



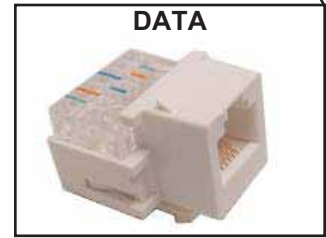
**72-306  
6 POSITION FEMALE  
TO FEMALE KEYSTONE  
FEEDTHRU JACK**

RJ12, 6 pin female to female feed-thru keystone insert.  
Color is black



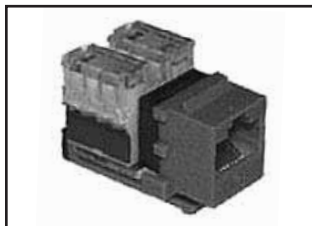
**6-POSITION UL  
KEYSTONE MODULAR  
JACK**

IDC type meets level 3 & 4 requirements. 30 microns gold plated contacts and ABS material UL94/A-O. Suitable for 22-26 AWG wire. Will work as a 4 position jack.  
72-100-AL.....almond  
72-100-BK.....black  
72-100-IV.....ivory  
72-100-WH.....white



**8-POSITION UL  
KEYSTONE MODULAR  
JACK**

IDC type meets level 3 & 4 requirements. 30 microns gold plated contacts and ABS material UL94/A-O. Suitable for 22-26 AWG wire.  
72-101-BK.....black  
72-101-IV.....ivory  
72-101-WH.....white



**UL 350MHz, RJ45  
ENHANCED 90°  
KEYSTONE JACK**

Gold plated 50 microns.  
72-102-AL-E90.....almond  
72-102-BK-E90.....black  
72-102-BU-E90.....blue  
72-102-GN-E90.....green  
72-102-IV-E90.....ivory  
72-102-OR-E90.....orange  
72-102-RD-E90.....red  
72-102-WH-E90.....white  
72-102-YL-E90.....yellow



**UL 350MHz, RJ45  
ENHANCED KEYSTONE  
JACK**

Gold plated 50 microns.  
72-102-AL-E.....almond  
72-102-BK-E.....black  
72-102-BU-E.....blue  
72-102-GN-E.....green  
72-102-IV-E.....ivory  
72-102-OR-E.....orange  
72-102-RD-E.....red  
72-102-WH-E.....white  
72-102-YL-E.....yellow



**UL 350MHz, RJ45  
ENHANCED TOOLLESS  
KEYSTONE JACK**

Secure self-terminating IDC mechanism allows for tool free installation  
Gold plated 50 microns.  
72-103-AL-E.....almond  
72-103-BK-E.....black  
72-103-BU-E.....blue  
72-103-GN-E.....green  
72-103-IV-E.....ivory  
72-103-OR-E.....orange  
72-103-RD-E.....red  
72-103-WH-E.....white  
72-103-YL-E.....yellow



**UL 1GHz RJ45  
BROADBAND 90° CAT  
6 KEYSTONE JACK**

Gold plated 50 microns  
72-400-AL.....almond  
72-400-BK.....black  
72-400-BU.....blue  
72-400-GN.....green  
72-400-IV.....ivory  
72-400-OR.....orange  
72-400-RD.....red  
72-400-WH.....white  
72-400-YL.....yellow



**UL 1GHz RJ45  
BROADBAND CAT 6  
TOOLESS, KEYSTONE  
JACK**

Secure self-terminating IDC mechanism allows for tool free installation.  
Gold plated 50 microns  
72-401-WH.....white

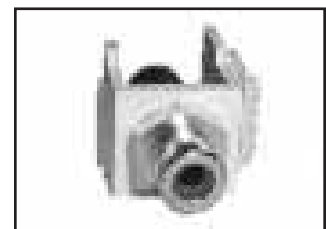


**RCA AUDIO/VIDEO FEMALE TO FEMALE  
RECESSED KEYSTONE INSERT**

Recessed RCA female to female feed-thru jack. Flush-faced colored insert provides for easy identification. Comes with either **Gold** or **Nickel** plated connectors. **Please specify color and style when ordering**

Nickel Version  
72-308-BK.....black  
72-308-BU.....blue  
72-308-GN.....green  
72-308-IV.....ivory  
72-308-RD.....red  
72-308-WH.....white  
72-308-YL.....yellow

Gold Version  
72-308G-BK.....black, gold  
72-308G-BU.....blue, gold  
72-308G-GN.....green, gold  
72-308G-IV.....ivory, gold  
72-308G-RD.....red, gold  
72-308G-WH.....white, gold  
72-308G-YL.....yellow, gold



**RGB+VIDEO RCA  
KEYSTONE INSERT**

RCA female to female jacks with colored inserts of BLUE, GREEN, IVORY, RED, WHITE or YELLOW, Nickel plated. Specify color when ordering.  
72-300-BU.....blue  
72-300-GN.....green  
72-300-IV.....ivory  
72-300-RD.....red  
72-300-WH.....white  
72-300-YL.....yellow

# CALRAD

## 72 Series - Keystone Inserts

New Item

### 4 Pin Version Nickel Version

72-304-BK.....black  
 72-304-BU.....blue  
 72-304-GN.....green  
 72-304-IV.....ivory  
 72-304-OR.....orange  
 72-304-PU.....purple  
 72-304-RD.....red  
 72-304-WH.....white  
 72-304-YL.....yellow

### 4 Pin Version Gold Version

72-304G-BK.....black, gold  
 72-304G-BU.....blue, gold  
 72-304G-GN.....green, gold  
 72-304G-IV.....ivory, gold  
 72-304G-OR.....orange, gold  
 72-304G-PU.....purple, gold  
 72-304G-RD.....red, gold  
 72-304G-WH.....white, gold  
 72-304G-YL.....yellow, gold

### SVHS VIDEO FEMALE TO FEMALE RECESSED FEED-THRU KEYSTONE INSERT

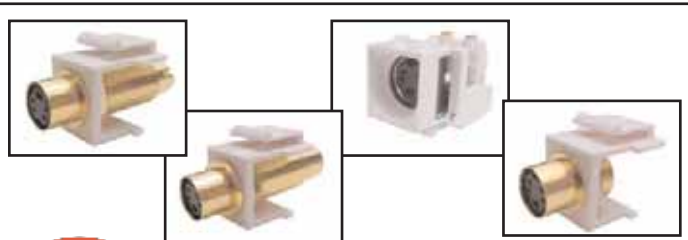
Recessed female to female mini din jack, in 4, 6 or 8 pin configurations. Colored insert snaps into keystone flush-faced and provides for easy identification. Comes in either **Gold** or **Nickel** plated connector. Available in **black, blue, green, ivory, orange, purple, red, white, or yellow.** Please specify color and style when ordering.

### 6 Pin Version Nickel Only

72-304-6-BK.....black  
 72-304-6-BU.....blue  
 72-304-6-GN.....green  
 72-304-6-IV.....ivory  
 72-304-6-OR.....orange  
 72-304-6-PU.....purple  
 72-304-6-RD.....red  
 72-304-6-WH.....white  
 72-304-6-YL.....yellow

### 8 Pin Version Nickel Only

72-304-8-BK.....black  
 72-304-8-BU.....blue  
 72-304-8-GN.....green  
 72-304-8-IV.....ivory  
 72-304-8-OR.....orange  
 72-304-8-PU.....purple  
 72-304-8-RD.....red  
 72-304-8-WH.....white  
 72-304-8-YL.....yellow



New Item

### SVHS KEYSTONE CONNECTORS

72-311G..... Male to Female Feedthru  
 72-312G..... Female to Female Feedthru  
 72-313G..... Female with solder terminal Cups  
 72-314G..... Recessed Female to Punchdown

New 4 pin SVHS Keystone connectors. Choose from either feedthru or connector styles. Available in feedthru configurations of male to female or female to female. Connector styles come with solder cups or terminals. Gold plated with white keystone snap-in. Works in conjunction with Calrad p/n 72-233 four and six port insert plates.



New Item

### 72-310

### 3.5mm STEREO FEMALE TO FEMALE RECESSED INSERT

Recessed 3.5mm stereo female to female keystone feed-thru jack. Colored insert snaps into keystone flush-faced and provides for easy identification. Nickel plated connector.

72-310-BK.....black  
 72-310-IV.....ivory  
 72-310-WH.....white



### 50 OHM BNC FEMALE TO FEMALE INSERT

3/8" "D" bulkhead 50 Ohm BNC jack mounted in a keystone insert.

72-210-AL.....almond  
 72-210-IV.....ivory  
 72-210-WH.....white



New Item

### 75 OHM BNC FEMALE TO FEMALE RECESSED INSERT

Recessed 75 ohm BNC female to female feed-thru jack. Colored insert snaps into keystone flush-faced and provides for easy identification. Nickel plated connector.

72-307-BK.....black  
 72-307-BU.....blue  
 72-307-GN.....green  
 72-307-IV.....ivory  
 72-307-RD.....red  
 72-307-WH.....white  
 72-307-YL.....yellow



New Item

72-211

### 'F' CONNECTOR FEMALE TO FEMALE RECESSED INSERT

### RECESSED "F-81" RF KEYSTONE FEED-THRU

72-342-BU.....2 GHz, Blue  
 72-341-RD.....1 GHz, Red  
 1 and 2 GHz F-81 feed-thrus mounted in colored, flush-faced keystone insert for smooth cosmetic finish and easy identification

**Non-Recessed** 1/2" bulkhead standard F-81 jack mounted in a keystone insert.

72-211-IV.....Ivory  
 72-211-WH.....White



New Item

### BANANA JACK FEMALE TO FEMALE RECESSED INSERT

72-330-BK Black  
 72-330-RD Red

Isolated banana jack feed-thru in a recessed, flush-faced keystone insert. Provides a smooth cosmetic look and colored insert allows for easy channel identification.



New Item

### TOSLINK FEMALE TO FEMALE RECESSED INSERT

Toslink female to female feed-thru insert. Colored flush-faced insert allows for smooth appearance and easy identification. Available in black, blue, green, ivory, red or white. Please specify color when ordering.

72-320-BK.....black  
 72-320-BU.....blue  
 72-320-GN.....green  
 72-320-IV.....ivory  
 72-320-RD.....red  
 72-320-WH.....white

# CALRAD

## 72 Series - Network Products



### FIBER-OPTIC SIMPLEX FEMALE TO FEMALE ST-ST KEYSTONE JACK

72-216-BK black  
72-216-WH white  
Links ST to ST cable together. Fits all standard Keystone cavities. Works with Calrad wall plates and patch panels 72-226, 72-229, 72-230, & 72-233.



### TYPE "A" USB FEMALE TO FEMALE & SOLDERLESS KEYSTONE INSERTS

72-125K feed-thru  
72-125K-S solderless  
Type "A" USB keystone insert in either solderless or female feed-thru styles. Solderless version has individual "U" shaped screw terminals for a solid secure wiring termination.



### TYPE "B" USB FEMALE TO FEMALE & SOLDERLESS KEYSTONE INSERTS

72-126K feed-thru  
72-126K-S solderless  
Type "B" USB keystone insert in either solderless or female feed-thru styles. Solderless version has individual "U" shaped screw terminals for a solid secure wiring termination.



### 4 PIN RECESSED FIREWIRE FEMALE TO FEMALE & SOLDERLESS KEYSTONE INSERTS

72-120K feed-thru  
72-120K-S solderless  
4 pin firewire keystone insert in either solderless or female feed-thru styles. Solderless version has individual "U" shaped screw terminals for a solid secure wiring termination.



### 6 PIN FIREWIRE FEMALE TO FEMALE & SOLDERLESS KEYSTONE INSERTS

72-122K feed-thru  
72-122K-S solderless  
6 pin firewire keystone insert in either solderless or female feed-thru styles. Solderless version has individual "U" shaped screw terminals for a solid secure wiring termination.



75-696K-S BNC  
30-308-K-S RCA  
35-498K-S SVHS



### SOLDERLESS KEYSTONE & CHASSIS MOUNT RCA, BNC AND SVHS JACKS

Our new patent pending connectors provide a solderless and connectorless backside termination solution. These connectors can mount in a 1/2" hole or be assembled into any of Calrad's blank keystone inserts or chassis panels with colored plastic washers (part# 30-288-color) in black, blue, green, ivory, red, orange, violet or white). The individual "U" shaped screw terminals gives a solid and secure wiring termination. Small slotted screws on the back of the connector are used to tighten the cable connections. Each terminal is clearly labeled for easy wiring connection. These connectors work with Calrad's 55-770G miniature S-Video cable, 55-868B SVHS + audio cable or 55-897B miniature stereo audio cable. **To be used as keystone inserts, you must use Calrad 72-205-COLORED inserts. See Below**

### RECESSED KEYSTONE BLANK INSERTS

Blank recessed keystone insert, Available in black, blue, green, ivory, orange, purple, red, white and yellow.

- 72-205-BK.....black
- 72-205-BU.....blue
- 72-205-GN.....green
- 72-205-IV.....ivory
- 72-205-OR.....orange
- 72-205-PU.....purple
- 72-205-RD.....red
- 72-205-WH.....white
- 72-205-YL.....yellow



See pages 124-126 for applications

### RJ45 SNAGLESS RUBBER BOOTS

Available in black, blue, ivory, orange, red, white, yellow, green or grey. Used with round cable.

- 72-104-BK..... black
- 72-104-BU..... blue
- 72-104-GN.....green
- 72-104-GY.....grey
- 72-104-IV..... ivory
- 72-104-OR..... orange
- 72-104-RD..... red
- 72-104-WH..... white
- 72-104-YL..... yellow



### RJ45 MODULAR PLUG for CAT5e and CAT6

Crimp style connector for use with twisted pair data cables. Gold plated 50 microns of gold.

- |                               |                               |
|-------------------------------|-------------------------------|
| <b>CAT5e</b>                  | <b>CAT6</b>                   |
| 72-497R-25 ..... pack of 25   | 72-498R-25 ..... pack of 25   |
| 72-497R-100 ..... pack of 100 | 72-498R-100 ..... pack of 100 |



# CALRAD

## 72 Series - Network Products



### FIELD INSTALLABLE 2-PIECE SNAP-ON RJ45 SNAGLESS BOOTS

- 72-105-BK..... black
- 72-105-BU..... blue
- 72-105-IV..... ivory
- 72-105-OR..... orange
- 72-105-RD..... red
- 72-105-WH..... white
- 72-105-YL..... yellow



### KEYSTONE BLANK CONNECTOR INSERT

Blank insert with 3/8" hole. For use with Calrad connectors and Keystone cavity wall plates. Hex nut cutout on rear of insert.

- 72-212-IV.....ivory
- 72-212-WH.....white



### KEYSTONE BLANK INSERT

Blank insert for use with Calrad Keystone cavity wall plates.

- 72-213-AL..... almond
- 72-213-IV..... ivory
- 72-213-WH..... white



CAT 5e

### 72-109 CAT-5e INLINE COUPLER

Connect 2 CAT-5, CAT-5e cables together. Bandwidth up to 500Mbps. Meets FCC part 68. Contacts are plated with 50 microns of gold over 100 microns of nickel on phosphor. Size: 1.02"W x .98"H x 1.88"D.. Color is white



### 72-230 KEYSTONE PLASTIC WALL PLATES

Includes mounting hardware. Available in white, almond and ivory

- 72-230-1..... 1 port, white
- 72-230-2..... 2 ports, white
- 72-230-3..... 3 ports, white
- 72-230-4..... 4 ports, white
- 72-230-6..... 6 ports, white
- 72-230-1-AL..... 1 port, almond
- 72-230-2-AL..... 2 ports, almond
- 72-230-3-AL..... 3 ports, almond
- 72-230-4-AL..... 4 ports, almond
- 72-230-6-AL..... 6 ports, almond
- 72-230-1-IV..... 1 port, ivory
- 72-230-2-IV..... 2 ports, ivory
- 72-230-3-IV..... 3 ports, ivory
- 72-230-4-IV..... 4 ports, ivory
- 72-230-6-IV..... 6 ports, ivory



### ANGLED CAVITY KEYSTONE WALL PLATES

UL approved

- 72-231-1.....1 port, white
- 72-231-2.....2 ports, white
- 72-231-3.....3 ports, white
- 72-231-4.....4 ports, white



### DECORA STYLE CAT-5 KEYSTONE WALL PLATE INSERTS

Includes mounting screws.

- 72-233-1..... 1 port, white
- 72-233-2..... 2 ports, white
- 72-233-3..... 3 ports, white
- 72-233-4..... 4 ports, white
- 72-233-6..... 6 ports, white
- 72-233-1-IV..... 1 port, ivory
- 72-233-2-IV..... 2 ports, ivory
- 72-233-3-IV..... 3 ports, ivory
- 72-233-4-IV..... 4 ports, ivory
- 72-233-6-IV..... 6 ports, ivory



### KEYSTONE WALL JACKS WITH INSERTS

White color duplex style Keystone wall jacks with blank inserts and wall plate. Includes mounting hardware.

- 72-229-1..... 1 port
- 72-229-2..... 2 port



CAT 5e

### 72-108-WH DUPLEX ENHANCED SURFACE MOUNT JACK

Up to 350MHz PCB surface mount jack with 110 IDC, allows for quick and easy installation. UL certified to meet EIA/TIA 568A or B, TSB 40A specifications. 2 RJ45 jacks. Includes mounting hardware.



CAT 5e

### 72-236-WH PLASTIC CAT-5, CAT-5e BACK BOX

For use with Calrad 72-229-1, 72-229-2 duplex style Keystone wall plates. Includes mounting hardware.

Color is white



CAT 5e

### 72-107-WH SINGLE ENHANCED SURFACE MOUNT JACK

Up to 350MHz PCB surface mount jack with 110 IDC, allows for quick and easy installation. UL certified to meet EIA/TIA 568A or B, TSB 40A specifications. 1 RJ45 jack. Includes mounting hardware.

Color is white

# CALRAD

## 72 Series - Network Products

New Item



### 72-248 LAN & VOICE CABLE TESTER

Tests for RJ45 modular connection with 258A, 568A & B, 356A wiring and 10 baseT & BNC coaxial. Includes 2 adapters for USOC RJ12 and RJ11 test usage. Performs test of cable continuity, miss wiring and polarization by the color of the L.E.D. indicators. Detachable remote unit for installed cabling. Powered using a 9V battery. Includes black ballistic nylon carrying case.



### 72-241 7.3" MODULAR CRIMP TOOL

Cuts, strips, and crimps two types of plugs 6P & 8P in one. For crimping: 8P8C/RJ45, 6P6C/RJ12, 6P4C/RJ11 and 6P2C plugs. Steel body with easy grip plastic handles.



### 72-242 7.6" PRO MODULAR CRIMP TOOL

For crimping 6P-RJ11 / RJ12 & 8P-RJ45, suitable for both stranded and solid wire. Provides precision crimping, cutting and stripping wire in one operation. Ratchet style mechanism.



### 72-110 350MHz CAT-5E, RJ45 SNAGLESS CABLES

UL high performance, stranded hi-flex conductors for superior flexibility. Color cable and boot. Gold plated plugs with 50 microns of plating.

#### BLACK

72-110-3-BK .....3ft. black  
72-110-5-BK .....5 ft. black  
72-110-7-BK .....7 ft. black  
72-110-10-BK ..... 10 ft. black  
72-110-14-BK ..... 14 ft. black  
72-110-25-BK .....25 ft. black  
72-110-50-BK .....50 ft. black  
72-110-100-BK .....100 ft. black

#### BLUE

72-110-3-BU .....3ft. blue  
72-110-5-BU .....5 ft. blue  
72-110-7-BU .....7 ft. blue  
72-110-10-BU ..... 10 ft. blue  
72-110-14-BU ..... 14 ft. blue  
72-110-25-BU .....25 ft. blue  
72-110-50-BU .....50 ft. blue  
72-110-100-BU .....100 ft. blue

#### GRAY

72-110-3-GY .....3ft. gray  
72-110-5-GY .....5 ft. gray  
72-110-7-GY .....7 ft. gray  
72-110-10-GY ..... 10 ft. gray  
72-110-14-GY ..... 14 ft. gray  
72-110-25-GY .....25 ft. gray  
72-110-50-GY .....50 ft. gray  
72-110-100-GY .....100 ft. gray

#### GREEN

72-110-3-GN .....3ft. green  
72-110-5-GN .....5 ft. green  
72-110-7-GN .....7 ft. green  
72-110-10-GN ..... 10 ft. green  
72-110-14-GN ..... 14 ft. green  
72-110-25-GN .....25 ft. green  
72-110-50-GN .....50 ft. green  
72-110-100-GN .....100 ft. green

#### RED

72-110-3-RD .....3ft. red  
72-110-5-RD .....5 ft. red  
72-110-7-RD .....7 ft. red  
72-110-10-RD ..... 10 ft. red  
72-110-14-RD ..... 14 ft. red  
72-110-25-RD .....25 ft. red  
72-110-50-RD .....50 ft. red  
72-110-100-RD .....100 ft. red

#### YELLOW

72-110-3-YL .....3ft. yellow  
72-110-5-YL .....5 ft. yellow  
72-110-7-YL .....7 ft. yellow  
72-110-10-YL ..... 10 ft. yellow  
72-110-14-YL ..... 14 ft. yellow  
72-110-25-YL .....25 ft. yellow  
72-110-50-YL .....50 ft. yellow  
72-110-100-YL .....100 ft. yellow



### 72-240 MULTI-PURPOSE MODULAR CRIMP TOOL

RJ45 crimping tool cuts, strips and crimps quickly and easily. For RJ45 ethernet and RJ11 plugs. Provides repeatability and reliability of crimp. High impact plastic construction. Compact size, easy to handle.



### 72-234 ADJUSTABLE IMPACT PUNCH DOWN TOOL

Provides constant action for seating wire into terminal blocks. Adjustable impact pressure control. The back of the handle is a storage compartment for 1 spare blade. For use with Calrad 72-245, 72-246, 72-247 blades.



### 72-244 IMPACT PUNCH DOWN TOOL

Provides constant action for seating wire into terminal blocks. For use with Calrad 72-245, 72-246, 72-247 blades.



### 72-239 PLASTIC PUNCH TOOL

Inexpensive disposable punch down tool with cable stripping blade for outer PVC jacket. Suitable for small jobs. Works with 5-6mm O.D. UTP/STP cable. Terminates conductors on 110 blocks.



### PUNCH DOWN BLADES FOR 72-234 AND 72-244 PUNCH DOWN TOOLS

72-245 ... 66 punch down blade  
72-246.... 110/88 punch down blade  
72-247.... 66, 110/88 punch down blade

## 72 series - Cat 6 & Fiber Optic Cables

New Item

### 72-111 1GHz CAT-6E, RJ45 SNAGLESS CABLES

UL high performance, stranded hi-flex conductors for superior flexibility. Color cable and boot. Gold plated plugs with 50 microns of plating.

#### BLACK

72-111-3-BK	.....3 ft. black
72-111-5-BK	.....5 ft. black
72-111-7-BK	.....7 ft. black
72-111-10-BK	.....10 ft. black
72-111-14-BK	.....14 ft. black
72-111-25-BK	.....25 ft. black
72-111-50-BK	.....50 ft. black
72-111-75-BK	.....75 ft. black
72-111-100-BK	.....100 ft. black

#### BLUE

72-111-3-BU	.....3 ft. blue
72-111-5-BU	.....5 ft. blue
72-111-7-BU	.....7 ft. blue
72-111-10-BU	.....10 ft. blue
72-111-14-BU	.....14 ft. blue
72-111-25-BU	.....25 ft. blue
72-111-50-BU	.....50 ft. blue
72-111-75-BU	.....75 ft. blue
72-111-100-BU	.....100 ft. blue

#### GREEN

72-111-3-GN	.....3 ft. green
72-111-5-GN	.....5 ft. green
72-111-7-GN	.....7 ft. green
72-111-10-GN	.....10 ft. green
72-111-14-GN	.....14 ft. green
72-111-25-GN	.....25 ft. green
72-111-50-GN	.....50 ft. green
72-111-75-GN	.....75 ft. green
72-111-100-GN	.....100 ft. green

### 72-249 10' CROSSOVER CABLE

Connect 2 PC's without a hub. Rubber strain reliefs with RJ45 connectors. Includes female to female coupler for connecting standard CAT-5 cables for any desired length.



#### GRAY

72-111-3-GY	.....3 ft. gray
72-111-5-GY	.....5 ft. gray
72-111-7-GY	.....7 ft. gray
72-111-10-GY	.....10 ft. gray
72-111-14-GY	.....14 ft. gray
72-111-25-GY	.....25 ft. gray
72-111-50-GY	.....50 ft. gray
72-111-75-GY	.....75 ft. gray
72-111-100-GY	.....100 ft. gray

#### RED

72-111-3-RD	.....3 ft. red
72-111-5-RD	.....5 ft. red
72-111-7-RD	.....7 ft. red
72-111-10-RD	.....10 ft. red
72-111-14-RD	.....14 ft. red
72-111-25-RD	.....25 ft. red
72-111-50-RD	.....50 ft. red
72-111-75-RD	.....75 ft. red
72-111-100-RD	.....100 ft. red

#### YELLOW

72-111-3-YL	.....3 ft. yellow
72-111-5-YL	.....5 ft. yellow
72-111-7-YL	.....7 ft. yellow
72-111-10-YL	.....10 ft. yellow
72-111-14-YL	.....14 ft. yellow
72-111-25-YL	.....25 ft. yellow
72-111-50-YL	.....50 ft. yellow
72-111-75-YL	.....75 ft. yellow
72-111-100-YL	.....100 ft. yellow



### 72-152 FIBER OPTIC FC-FC DUPLEX JUMPER CABLES

Low insertion loss optical patch cord. Fiber diameter 8.3/125um single mode. 3mm cable O.D., Length in meters. Specify length when ordering.

72-152-1	.....1 meter
72-152-2	.....2 meters
72-152-3	.....3 meters
72-152-4	.....4 meters
72-152-5	.....5 meters
72-152-6	.....6 meters



### 72-157-LENGTH FIBER OPTIC ST-SC SIMPLEX JUMPER CABLE

FDDI rated multi-mode patch jumper cable. Perfect for LAN and digital video applications. Terminated to precision machined brass ST connector and SC premium connector. Cable 62.5um/125um, PVC single fiber cord. OFNR riser rated.

72-157-1	.....1 meter
72-157-2	.....2 meters
72-157-3	.....3 meters
72-157-4	.....4 meters
72-157-5	.....5 meters
72-157-6	.....6 meters



### 72-150 FIBER OPTIC FC-FC SIMPLEX JUMPER CABLES

Low insertion loss optical patch cord. Fiber diameter 8.3/125um single mode. 3mm cable O.D., Length in meters. Specify length when ordering.

72-150-1	.....1 meter
72-150-2	.....2 meters
72-150-3	.....3 meters
72-150-4	.....4 meters
72-150-5	.....5 meters
72-150-6	.....6 meters



### 72-159-LENGTH FIBER OPTIC S DUPLEX JUMPER CABLE

FDDI rated multi-mode patch jumper cable. Perfect for LAN and digital video applications. Terminated to precision machined brass ST connector and SC premium connector. 2 fiber duplex zip cord - orange PVC jacket. 62.5um/125um fiber - OFNR riser rated.

72-159-1	.....1 meter
72-159-2	.....2 meters
72-159-3	.....3 meters
72-159-4	.....4 meters
72-159-5	.....5 meters
72-159-6	.....6 meters



### 72-163-Length FIBER OPTIC ST-SC DUPLEX JUMPER CABLE

FDDI rated multi-mode patch jumper cable. Perfect for LAN and digital video applications. SC premium connectors. 2 fiber duplex zip cord - orange PVC jacket. 62.5um/125um fiber - OFNR riser rated.

72-163-1	.....1 meter
72-163-2	.....2 meters
72-163-3	.....3 meters
72-163-4	.....4 meters
72-163-5	.....5 meters
72-163-6	.....6 meters



# CALRAD

## 72 Series - Fiber-Optic, Mini USB Cables & Adapters

### 72-161-LENGTH FIBER OPTIC SC-SC SIMPLEX JUMPER CABLE

- 72-161-1.....1 meter
- 72-161-2.....2 meters
- 72-161-3.....3 meters
- 72-161-4.....4 meters
- 72-161-5.....5 meters
- 72-161-6.....6 meters



### 72-156 FIBER OPTIC ST-ST DUPLEX JUMPER CABLES

FDDI rated multi-mode patch jumper cables. Perfect for LAN and digital video applications. Terminated to precision machined brass ST connectors. 2 fiber duplex zip cord - OFNR riser rated.

- 72-156-1.....1 meter
- 72-156-2.....2 meters
- 72-156-3.....3 meters
- 72-156-4.....4 meters
- 72-156-5.....5 meters
- 72-156-6.....6 meters



### 72-154 FIBER OPTIC ST-ST SIMPLEX JUMPER CABLES

Cable 62.5um/125um, PVC single fiber cord. OFNR riser rated. Terminated to precision machined brass ST connectors. Length are in meters

- 72-154-1.....1 meter
- 72-154-2.....2 meters
- 72-154-3.....3 meters
- 72-154-4.....4 meters
- 72-154-5.....5 meters
- 72-154-6.....6 meters



### 72-180 FIBER OPTIC SIMPLEX COUPLER ST-ST

Links ST to ST cables together. Panel mount connector, mounts in .375" hole.



### 72-181 FIBER OPTIC DUPLEX COUPLER ST-ST

Links ST to ST cables together. Designed to mount in 19" rack panels or used free standing.



New Item

### INLINE USB ADAPTERS

Adapts USB configurations Type A and B and PS2 (6 pin mini din)



**72-252**  
Male to Male Type "A" USB Adapter



**72-253**  
Female to Female Type "A" USB Adapter



**72-254**  
Male to Male Type "B" USB Adapter



**72-255**  
Male to Type "B" Female USB Adapter



**72-256**  
Type "A" Female to Type "B" Female USB Adapter



**72-257**  
Type "A" Male to PS2 Male USB Adapter



**72-258**  
Type "A" Male to PS2 Female USB Adapter

New Item

### Mini USB Adapter Cables

These mini USB 2.0 cables allow the user to interface their digital camera or other products to standard USB type A or B. Available in 4 and 5 pin configurations.

#### Versions Available

#### Mini USB 5 Pin Male to USB Type A

- 72-260-3 .....3 ft.
- 72-260-6 .....6 ft.

#### Mini USB 4 Pin Male to USB Type A

- 72-261-3 .....3 ft.
- 72-261-6 .....6 ft.

#### Mini USB 4 Pin Male to USB Type B

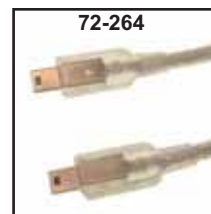
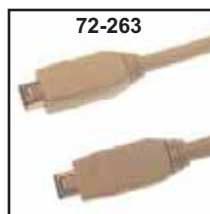
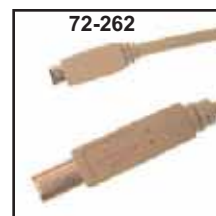
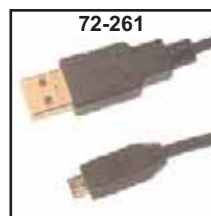
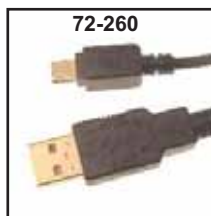
- 72-262-3 .....3 ft.

#### Mini USB 4 Pin Male to Mini USB 4 Pin Male

- 72-263-3 .....3 ft.

#### Mini USB 5 Pin Male to Mini USB 5 Pin Male

- 72-264-3 .....3 ft.
- 72-264-6 .....6 ft.



## 72 Series - USB, Firewire, DB9/Mouse Cables

### 72-128.....16 ft. 72-128-26.....26 ft. USB TYPE "A" 16 ft. EXTENSION CABLE

Embedded USB transceiver cable prevents signal loss. Extends the cable length of any USB device by an additional 16 or 26 feet. Daisy chain up to an additional 4 cables for a max extension of 80ft. Male to female USB type "A" connectors



### 72-190 SHIELDED 6 Pin MINI-DIN EXTENSION CABLE

6-pin mini din male to female extension cable, wired pin to pin.

72-190-6.....6 ft.  
72-190-10.....10 ft.



### 72-129 USB OVER CAT5 EXTENDER CABLE

This cable can be used to extend the distance between a USB device and a host computer by up to 150 feet. It consists of 2 pieces of a local unit with USB Type A Male (host computer side) and a remote unit device side) with built-in USB Type A Female connector. Standard CAT5/5e/6 network cable (UTP or STP) is used to connect the two units together. No External power required.



### DB-9/RS232 MOUSE/MONITOR MALE TO MALE CABLES

72-195-6 ..... 6 ft.  
72-195-10 ..... 10 ft.

### DB-9 MOUSE/MONITOR MALE TO FEMALE CABLES

72-196-6 ..... 6 ft.  
72-196-10 ..... 10 ft.

Also known as RS232 cables. 9 wire 26-28 awg conductors with foil shielding. Pin to pin wiring. Rugged molded construction with long grip-textured slotted thumb screws.



### USB SERIAL CABLES

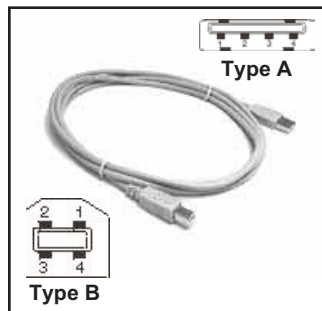
Universal Serial Bus 2.0 (USB 2.0) brings a new standard of speed to the USB market. These new highspeed USB cables give more versatility to computers and peripherals than ever before. USB 2.0 increases signal transmission from standard USB 1.1 topping out at 12Mb/s up to 480Mb/s for USB 2.0. The cables are completely backward compatible with standard USB ports, so there isn't any need to worry that you will not be able to use USB 2.0 cables on the standard USB products you already own.

#### VERSION 2.0 USB TYPE A CABLES

72-125-6..... 6 ft.  
72-125-10..... 10 ft.  
72-125-15..... 15 ft.

#### VERSION 2.0 USB TYPE A/B CABLES

72-126-6..... 6 ft.  
72-126-10..... 10 ft.  
72-126-15..... 15 ft.



### KEYSTONE BLANK PATCH PANELS

Numbered prepunched panels with durable black finish.

72-226-12 ..... 12 ports  
19"W x 1 3/4"H x 3/8"D  
72-226-16 ..... 16 ports  
19"W x 1 3/4"H x 3/8"D  
72-226-24 ..... 24 ports  
19"W x 3 1/2"H x 3/8"D  
72-226-48 ..... 48 ports  
19"W x 5 1/4"H x 3/8"D



### 72-225 WIRE MANAGEMENT PANEL

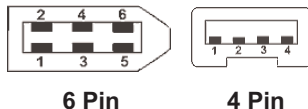
4 stand offs for routing cables.  
1 3/4" x 1 3/4" stand off openings for cable passage.  
Size: 19"(W) x 1 3/4"(H) x 1 3/4"(D).  
Durable black finish.



### FIREWIRE CABLES

This type of IEEE 1394 cable carries up to over 400MBps of bandwidth.

72-120-6.....4-pin/4-pin, 6 ft.  
72-120-10...4-pin/4-pin, 10 ft.  
72-120-15 4-pin/4-pin, 15 ft.  
72-121-6.... 6-pin/4-pin, 6 ft.  
72-121-10 6-pin/4-pin, 10 ft.  
72-121-12 6-pin/4-pin, 12 ft.  
72-121-15 6-pin/4-pin, 15 ft.  
72-122-6.... 6-pin/6-pin, 6 ft.  
72-122-10 6-pin/6-pin, 10 ft.  
72-122-12 6-pin/6-pin, 12 ft.  
72-122-15 6-pin/6-pin, 15 ft.



New Item

### 72-251 (solid) CAT-6 CABLE

1000' pull box of solid twisted pair unshielded UL/CSA, 24 AWG 4 pair. 100Mbps. UL/CSA for fast ethernet 10/100 Base-T. PVC jacket. Colors may vary.



### 72-250 (solid)

### 72-250-S (stranded)

**CAT-5e CABLE 350MHz**  
1000' roll solid twisted pair unshielded UL/CSA, 24 AWG 4 pair, PVC jacket. UL/CSA for fast ethernet 10/100/350 Base-T. Colors may vary.

CAT-6

New Item

### 72-123 Firewire Adapter

6 Pin Male to  
4 Pin Female



New Item

### 72-124 Firewire Adapter

6 Pin Female  
to 4 Pin Male

