USB A-B Coupler

This unique family of USB couplers allow USB cables to be efficiently passed through a panel or enclosure. Furthermore, they are available in many USB connector combinations with your choice of shielded and unshielded housing versions. Unshielded couplers are available in black or ivory and shielded couplers are metallic. Securely mounts via 4-40 screws, must be purchased separately (P/N ECF440). All stock ships same day.
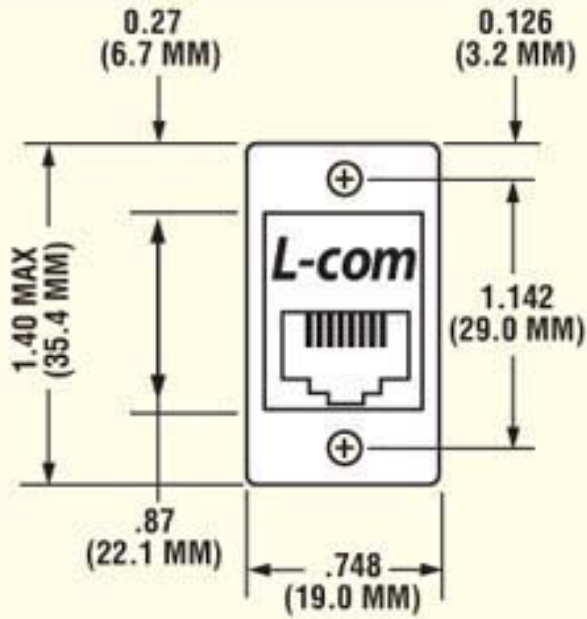
Features for this product

- Allows USB cables to be passed through panels or enclosures
- Screw mount for secure installations
- 30 micro inch gold plated contacts provide reliable connections with repeated mating cycles
- Shielded and Unshielded housings available for user grounding preference
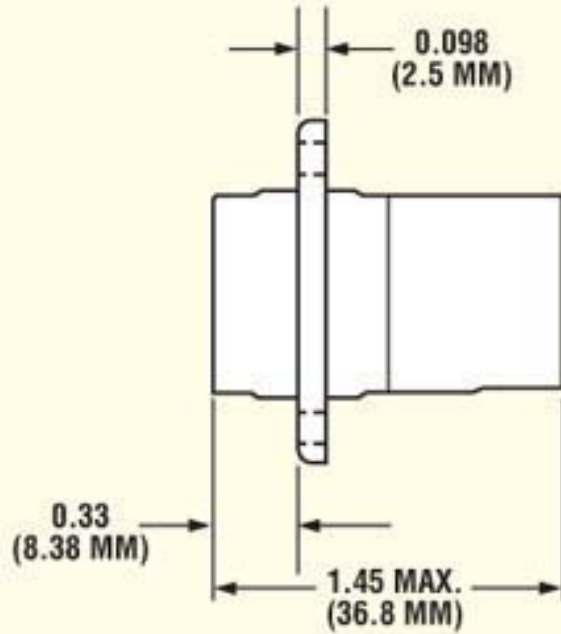- Connector options are USB A-A, B-A & A-B

Details for this product

L-com Item #	ECF504B-UAB
Manufacturer	L-com
ASIN # (More)	B000AAL6X0
UPC # (More)	822335022423
RoHS Status	RoHS Compliant ✓ (More)
Color	BLACK

- Diagram
- Catalog Page
- Catalog Page
- 2D Drawing (.pdf)
- 3D CAD Model (.step)

Sidebar

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ECF & ECJ Front View

0.27
(6.7 MM)

0.126
(3.2 MM)

1.40 MAX
(35.4 MM)

L-com

1.142
(29.0 MM)

.87
(22.1 MM)

.748
(19.0 MM)

ECF Side View

0.098
(2.5 MM)

0.33
(8.38 MM)

1.45 MAX.
(36.8 MM)

USB Style Connectors

L-com
(A)

L-com
(B)

Type A

Type B

USB Type A & B

ECF & ECJ Series

RECOMMENDED PANEL HOLES

DRILL AND TAP
HOLES FOR
4-40 SCREW

.900

1.142

.675
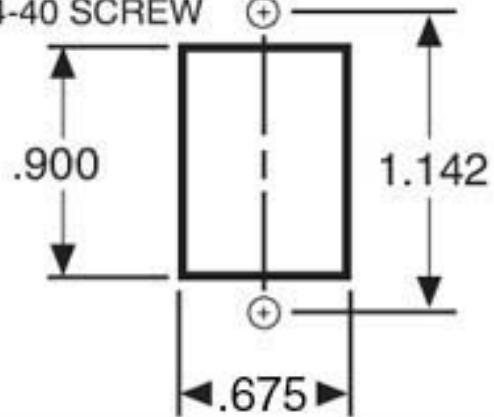
Item #	Description	Color	1-9	10-24	25-99	100-249	250-499

✔ RoHS Compliant Panel Mounted USB Type A-B Couplers, 30 Microinches Gold, Colors: Black, Ivory or Silver

These couplers are great for connecting new USB style connectors into panels, etc. One side has Type A connector, the other Type B conforming to requirements. Available in Black, Ivory or Silver. Recommended 4-40 mounting screws must be purchased separately.

ECF504-UAB	USB Type A - Type B Coupler	Ivory
ECF504B-UAB	USB Type A - Type B Coupler	Black
ECF504-UABS	USB Type A - Type B Coupler, Shielded	Silver
ECF504-BAS	USB Type B - Type A Coupler, Shielded	Silver
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100	

✔ RoHS Compliant USB Type A and B Panel Couplers with 10" Wire Leads, 30 Microinches Gold, Black or Ivory
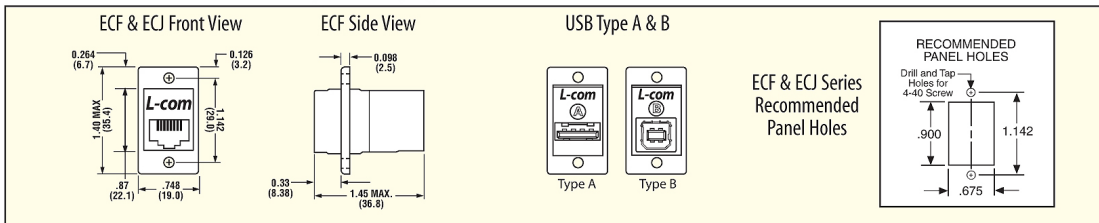
Similar to our USB coupler except with wire leads in the rear to connect to equipment. Choose from USB Type A or B jacks in Black or Ivory color. Wires are 20 AWG (2 power) and 24 AWG (2 signal) stranded wires with additional drain to shield. Recommended 4-40 mounting screws must be purchased separately.

ECJ504-UA	USB Type A Jack, 10" Leads	Ivory
ECJ504-UB	USB Type B Jack, 10" Leads	Ivory
ECJ504B-UA	USB Type A Jack, 10" Leads	Black
ECJ504B-UB	USB Type B Jack, 10" Leads	Black
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100	

✔ RoHS Compliant IEEE-1394 Firewire Shielded Panel Mount Couplers, Type 1 Connectors

This coupler provides a practical and cost effective way to feed Firewire cables through a panel or enclosure. A unique mounting flange makes these units usable in virtually any panel thickness. Features two Type 1 (6 position) female connectors and metal housing. Recommended 4-40 mounting screws must be purchased separately.

ECF504-94MS	IEEE-1394 Firewire Shielded Coupler, Type 1 Connectors	Silver
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100	

ECF & ECJ Front View — 0.264 (6.7), 0.126 (3.2), 1.40 MAX (35.4), L-com, 1.142 (29.0), .87 (22.1), .748 (19.0)

ECF Side View — 0.098 (2.5), 0.33 (8.38), 1.45 MAX. (36.8)

USB Type A & B — L-com Ⓐ (Type A), L-com Ⓑ (Type B)

ECF & ECJ Series Recommended Panel Holes

RECOMMENDED PANEL HOLES — Drill and Tap Holes for 4-40 Screw, .900, 1.142, .675

✔ RoHS Compliant 19" Panels with 16 or 32 Openings - Pre-Tapped To Accept Any ECF/ECJ504 Adapter

Our 16 and 32 port unpopulated panels are available for those who wish to create their own modular rack panels. Compatible with any of the ECF504 or ECJ504 series couplers on pages 30, 32 and 33. Bone and Black color; pre-tapped screw holes work with 4-40 screws (L-com #ECF440).
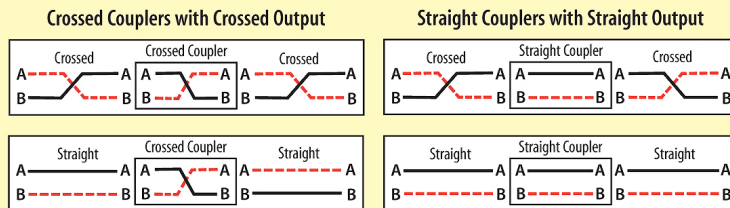
PR175F504	1.75" Blank Rack Panel accepts 16 Couplers	Bone
PR35F504	3.50" Blank Rack Panel accepts 32 Couplers	Bone
PR175F504B	1.75" Blank Rack Panel accepts 16 Couplers	Black
PR35F504B	3.50" Blank Rack Panel accepts 32 Couplers	Black

> 💡 **Tip** — *What is the difference between straight-thru and cross pinning on a modular cable or coupler?*
>
> Straight-thru means each contact is straight pinned to its respective contact (1-1, 2-2, 3-3, etc.). Crossed pinning means contacts are pinned through to the opposite contact. Example: On an 8 position RJ45: 1-8, 2-7, 3-6, etc.
>
> When using a coupler between two patch cords it is important to choose the correct type. As the diagrams illustrate, if the desired pinning from end to end is crossed then the coupler and cables must be crossed. For straight pinning, all cables and couplers must be straight-thru type.
>
> **Crossed Couplers with Crossed Output**
> Crossed — Crossed Coupler — Crossed
> Straight — Crossed Coupler — Straight
>
> **Straight Couplers with Straight Output**
> Crossed — Straight Coupler — Crossed
> Straight — Straight Coupler — Straight

19" USB Patch Panels - Equipped with 16 or 32 USB A/B Adapters

An L-com exclusive, four 19" rack panels with 16 or 32 shielded or unshielded USB A/B couplers. Panel heights are 1.75" or 3.5", color is Black with White legends 1-16 or 1-32 imprinted below the couplers. Couplers are Black or Silver (shielded). Additional coupler detail can be found on page 104.

PR175F504-UAB	1.75" 16 Port Panel USB A/B	Black
PR35F504-UAB	3.50" 32 Port Panel USB A/B	Black
PR175F504-UABS	1.75" 16 Port Panel USB A/B, Shielded	Black
PR35F504-UABS	3.50" 32 Port Panel USB A/B, Shielded	Black

3.5" x 19" Firewire (IEEE-1394) Coupler Panel - Equipped with 32 Shielded Firewire Type 1/1 Couplers
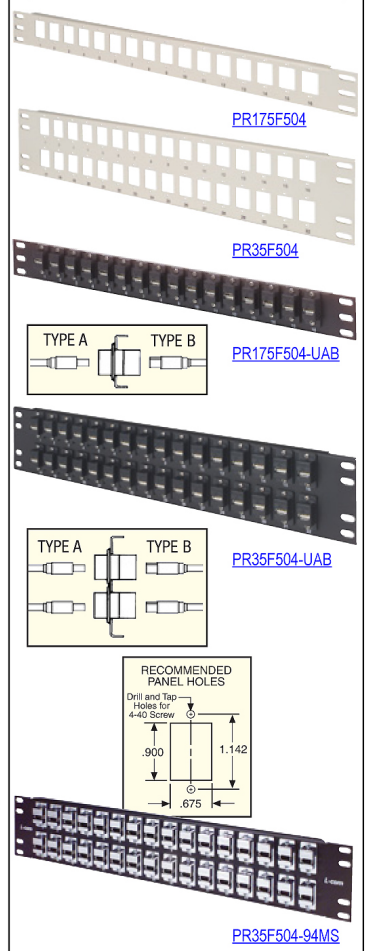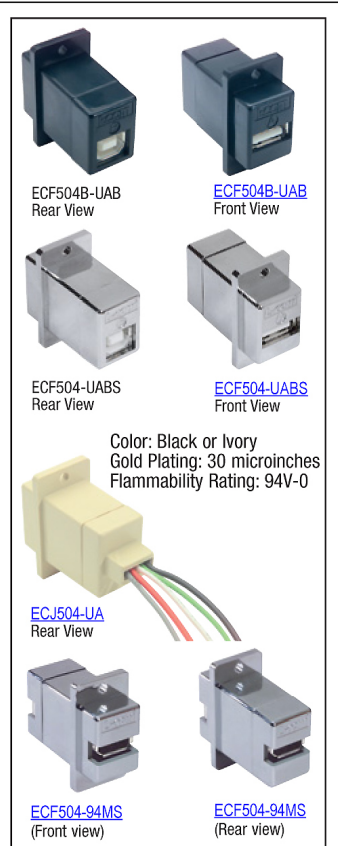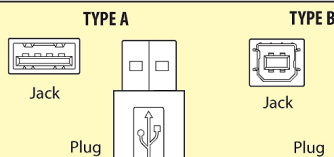
These exclusive rack panels are populated with 32 of our ECF504-94MS fully shielded Firewire couplers featuring Type 1 (6 position) female connectors on each end. Panel is Black with White legend printed 1-32. Panel size is 3.5" x 19".

PR35F504-94MS	3.50" 32 Port Firewire (IEEE-1394) Panel, Shielded	

> 💡 **Tip** — *What is the difference between a USB Type A or B connector?*
>
> Type A jacks are found on the host and on hubs.
> Type B jacks are found on peripherals.
>
> **TYPE A** — Jack, Plug
> **TYPE B** — Jack, Plug

ECF504B-UAB Rear View — ECF504B-UAB Front View

ECF504-UABS Rear View — ECF504-UABS Front View

Color: Black or Ivory
Gold Plating: 30 microinches
Flammability Rating: 94V-0

ECJ504-UA Rear View

ECF504-94MS (Front view) — ECF504-94MS (Rear view)

PR175F504

PR35F504

TYPE A — TYPE B — PR175F504-UAB

TYPE A — TYPE B — PR35F504-UAB

RECOMMENDED PANEL HOLES — Drill and Tap Holes for 4-40 Screw, .900, 1.142, .675

PR35F504-94MS

Shop at L-com.com or call 1-800-343-1455
E-mail: sales@L-com.com   Fax: 978-689-9484

Free technical support
Call toll free at 1-800-343-1455
if you have questions about your application.