



Firewire, DIN, SCSI, SATA Tutorial

What is Firewire?

Firewire is a high speed communication interconnect standard defined by IEEE-1394. It was originally developed to connect PCs to other PCs or to peripherals such as digital cameras, camcorders, scanners, etc. An attractive advantage is the devices are hot pluggable (live connection/disconnection without data loss or interruption).

What is SCSI?

Small Computer System Interface or SCSI is a standard and interface for transferring data between PCs and peripherals such as disk drives. Some SCSI interfaces are also found on peripherals such as scanners and CD drives.

What is SATA?

SATA or Serial ATA is a storage interface used to connect laptop and desktop computers or external mass storage devices such as a hard disk drives or optical drives. SATA can support data transfer rates as high as 3.0 Gbps per device (depending on hardware used).

What is eSATA?

eSATA or external SATA, was developed in 2004 to provide external high speed connectivity to external storage devices. eSATA technology supports hot plugging and a maximum cable length of 2 meters.

What are DIN and Mini DIN?

DIN stands for Deutsches Institut für Normung which is the German standards organization that developed this interface. DIN connectors are available in many configurations from 3 to 9 positions. Also there are several different versions of the 5 pin connector where the angle of the arc swept between the first and last pin can be 180°, 240° or 270°. The most common uses for DIN connectors are analog audio, AT keyboard and mouse connections and MIDI applications.

Mini DIN connectors were also developed by Deutsches Institut für Normung. These connectors are similar to the DIN series but feature a smaller diameter connector and are available in different styles (pin counts and pin orientation). Some popular applications for Mini DIN connectors include S-Video and PS/2 Keyboard and mouse interconnects.

Common Connector Types

• SATA, eSATA,



Serial ATA Latching



Serial ATA

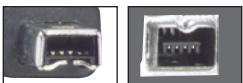


External Serial ATA

• Firewire



• Type 1 (6 position) connectors are typically located on computers and hubs.



• Type 2 (4 position) connectors are commonly found on peripheral devices.



• Type B (9 position) connectors are commonly found on computers and hubs.

• DIN and Mini DIN



• 6 Pin Mini DIN PS/2 Keyboards and Mice



• 5 Pin DIN AT Keyboards



• 8 Pin Mini DIN Macintosh Peripherals

• SCSI



.8mm Male



HPDB50 Male



HPDB68 Male



DB50 Male



CN50 Male



CN50 Female

Common Applications

SCSI, SATA, eSATA

Firewire

DIN and Mini DIN



Hard Disk Drive



External Storage



Camera



Scanner



Camcorder



Keyboard and Mouse



MIDI



S-Video



Australian Representatives

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Item #	Description	1-9	10-24	25-99	100+
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Serial ATA (SATA) Cable Assemblies with Latching Connectors - Straight and Right Angle Connectors

L-com's latching Serial ATA cable assemblies provide a secure connection every time. These SATA assemblies feature two shielded 26 AWG pairs in a PVC jacket, gold plated contacts and two straight polarized seven position connectors. Both straight to straight and straight to right angle versions are offered. Custom lengths are available with modest minimum requirements. Call us today with your custom SATA requirements.

CASATAL-8	Latching Serial ATA Cable, Straight/Straight, 8.0in (20.3cm)	4.09	3.77	3.44	CALL
CASATAL-12	Latching Serial ATA Cable, Straight/Straight, 12.0in (30.4cm)	4.30	3.96	3.61	CALL
CASATAL-16	Latching Serial ATA Cable, Straight/Straight, 16.0in (40.6cm)	4.56	4.19	3.83	CALL
CASATAL-18	Latching Serial ATA Cable, Straight/Straight, 18.0in (45.7cm)	4.66	4.29	3.92	CALL
CASATAL-24	Latching Serial ATA Cable, Straight/Straight, 24.0in (61.0cm)	5.03	4.62	4.22	CALL
CASATAL-36	Latching Serial ATA Cable, Straight/Straight, 36.0in (91.4cm)	5.75	5.29	4.83	CALL
CASATARL-8	Latching Serial ATA Cable, Straight/Right Angle, 8.0in (20.3cm)	4.66	4.29	3.92	CALL
CASATARL-12	Latching Serial ATA Cable, Straight/Right Angle, 12.0in (30.4cm)	4.87	4.48	4.09	CALL
CASATARL-16	Latching Serial ATA Cable, Straight/Right Angle, 16.0in (40.6cm)	5.08	4.67	4.26	CALL
CASATARL-18	Latching Serial ATA Cable, Straight/Right Angle, 18.0in (45.7cm)	5.18	4.77	4.35	CALL
CASATARL-24	Latching Serial ATA Cable, Straight/Right Angle, 24.0in (61.0cm)	5.60	5.15	4.70	CALL
CASATARL-36	Latching Serial ATA Cable, Straight/Right Angle, 36.0in (91.4cm)	6.27	5.77	5.27	CALL



Serial ATA Cable Assemblies - Straight to Straight and Straight to Right Angle Connectors

These cables feature two shielded 26 AWG pairs in a PVC jacket, gold plated contacts and polarized seven position connectors. Available in straight to straight and straight to right angle connector orientations in lengths of 0.5 and 1 meter.

CASATA-05M	Serial ATA Cable, Straight/Straight, 0.5m	4.66	4.29	3.92	CALL
CASATA-1M	Serial ATA Cable, Straight/Straight, 1.0m	5.75	5.29	4.83	CALL
CASATAR-05M	Serial ATA Cable, Straight/Right Angle, 0.5m	5.18	4.77	4.35	CALL
CASATAR-1M	Serial ATA Cable, Straight/Right Angle, 1.0m	6.27	5.77	5.27	CALL



Serial ATA Extension Cable Assemblies (SATA) - Male to Female Connectors

These handy cables can be used to extend SATA cables as well as to create space in tightly packed areas where bulky disk-on-modules (DOMs) are difficult to connect. These cables feature a bright red PVC jacket, gold contacts and are fully shielded.

CASATAEXT-12	Serial ATA Extension Cable, 12" (30.4cm)	4.97	4.58	4.18	CALL
CASATAEXT-20	Serial ATA Extension Cable, 20" (50.8cm)	5.54	5.10	4.66	CALL



External Serial ATA Cable Assemblies - Fully Shielded, Protect Against EMI/RFI

L-com's CAESA series of external Serial ATA cables provide fast data transfer speeds for external storage devices. SATA is now available "outside the box". These fully shielded cables provide extra protection from EMI/RFI and support speeds up to three Gigabits per second.

CAESA-05M	External Serial ATA Cable Assembly, 0.5m	7.82	7.35	6.88	CALL
CAESA-1M	External Serial ATA Cable Assembly, 1.0m	8.91	8.38	7.84	CALL
CAESA-2M	External Serial ATA Cable Assembly, 2.0m	11.55	10.86	10.17	CALL



External Serial ATA to Latching SATA II Cable Assemblies, Fully Shielded

L-com's CAESA2 series of External SATA to SATA II latching cable assemblies connect eSATA external drives/enclosures to SATA II enabled systems.

CAESA2-05M	eSATA to SATA II Latching Cable Assembly, 0.5m	8.29	7.79	7.29	CALL
CAESA2-1M	eSATA to SATA II Latching Cable Assembly, 1.0m	9.48	8.91	8.34	CALL
CAESA2-2M	eSATA to SATA II Latching Cable Assembly, 2.0m	11.86	11.15	10.44	CALL



SATA and eSATA Connector Covers for Male and Female Connectors, Pkg/10

These hard to find covers are perfect for protecting unused connector ports in any equipment as well as cable assembly connectors. These covers attach easily and stay in place with a snug friction fit. Color is black.

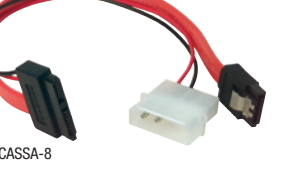
CVRSA	Protective Cover for SATA Cable Assembly Connector, Pkg/10	6.58	6.05	5.53	CALL
CVR-ESATA	Protective Cover for eSATA Cable Assembly Connector, Pkg/10	6.58	6.05	5.53	CALL
CAPSATA	Protective Cover for SATA Computer/Connector Ports, Pkg/10	7.77	7.15	6.53	CALL
CAP-ESATA	Protective Cover for eSATA Computer/Connector Ports, Pkg/10	7.77	7.15	6.53	CALL



Slim SATA Cables

Slim SATA cables are now available for slimline SATA drives. A compact power and data connector plugs directly into the slimline data drive and splits into a standard latching SATA cable plus a 4 position power connector.

CASSA-8	Slim SATA Cable, 8" (20.3cm)	8.96	8.25	7.53	CALL
CASSA-18	Slim SATA Cable, 18" (45.7cm)	9.53	8.77	8.01	CALL



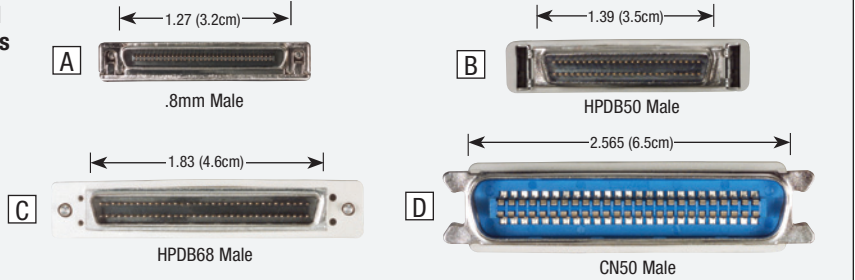
Making cable choices

To minimize the possibility of timing errors (skewing) always attempt to minimize the total bus length which includes the internal cables. When making cabling choices, consider the following recommended parameters for SCSI systems:

	DATA RATE	MAXIMUM BUS LENGTH	DEVICES SUPPORTED
SCSI-1	5 Mbps	6 meters	8 devices
SCSI-2	10 Mbps	6 meters	8 devices
SCSI-3	20 Mbps	3 meters	15/31 devices
SCSI-5	40 Mbps	3 meters	8 devices



Codes for SCSI Connector Ends



Item #	Description	# Prs	Code	1-9	10-24	25-99	100+
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Ultra SCSI (SCSI-5) Cables with .8mm Pitch High-Density Connectors, Offset Backshells

Many SCSI devices utilize the VHDCI (Very High Density Cable Interconnect) standard. The high performance standard and the mechanical precision of this connector system make workmanship absolutely critical.

CA2000MM-05M	Ultra SCSI Cable, .8mm Male/Male, 0.5m	34	A-A	86.74	85.01	81.54	CALL
CA2000MM-1M	Ultra SCSI Cable, .8mm Male/Male, 1.0m	34	A-A	91.87	90.03	86.36	CALL
CA2000MM-2M	Ultra SCSI Cable, .8mm Male/Male, 2.0m	34	A-A	102.07	100.03	95.95	CALL
CA2000MM-3M	Ultra SCSI Cable, .8mm Male/Male, 3.0m	34	A-A	112.27	110.03	105.54	CALL
CA2060MM-05M	Ultra SCSI Cable, .8mm Male/HPDB68 Male, 0.5m	34	A-C	78.59	77.02	73.88	CALL
CA2060MM-1M	Ultra SCSI Cable, .8mm Male/HPDB68 Male, 1.0m	34	A-C	83.83	82.16	78.80	CALL
CA2060MM-2M	Ultra SCSI Cable, .8mm Male/HPDB68 Male, 2.0m	34	A-C	94.32	92.43	88.66	CALL
CA2060MM-3M	Ultra SCSI Cable, .8mm Male/HPDB68 Male, 3.0m	34	A-C	104.81	102.71	98.52	CALL



Standard Grade SCSI-3 Cables - Fully Molded and Shielded

All SCSI-3 cables are fully populated with 34 twisted pairs. The high density DB68 connectors utilize 2-56 threaded screws for mounting.

CA900MM-05M	SCSI-3 Cable, HPDB68 Male/Male, 0.5m	34	C-C	41.26	37.96	34.66	CALL
CA900MM-1M	SCSI-3 Cable, HPDB68 Male/Male, 1.0m	34	C-C	46.62	42.89	39.16	CALL
CA900MM-2M	SCSI-3 Cable, HPDB68 Male/Male, 2.0m	34	C-C	57.39	52.80	48.21	CALL

Premium Grade SCSI-3 Cables with Ferrite Cores - Reduce Noise Problems

Frequent OEM requests have prompted us to add a premium SCSI-3 cable utilizing ferrite cores to the line. Molded ferrites reduce radiated emissions and undesirable currents within the shield. These cables can be helpful in passing today's tough emissions standards.

CAF900MM-05M	SCSI-3 Cable, HPDB68 Male/Male with Ferrites, 0.5m	34	C-C	56.62	51.17	46.72	CALL
CAF900MM-1M	SCSI-3 Cable, HPDB68 Male/Male with Ferrites, 1.0m	34	C-C	60.98	56.10	51.22	CALL
CAF900MM-2M	SCSI-3 Cable, HPDB68 Male/Male with Ferrites, 2.0m	34	C-C	71.75	66.01	60.27	CALL
CAF900MM-3M	SCSI-3 Cable, HPDB68 Male/Male with Ferrites, 3.0m	34	C-C	82.52	75.92	69.32	CALL



Low Smoke Zero Halogen SCSI-3 Cable Assemblies

These cables meet the requirements of SCSI-3 systems. The high density DB68 SCSI connectors use 2-56 threaded thumbscrews for mounting. Cable assembly construction features 30 microinch gold plated copper alloy contacts, die cast zinc alloy hoods, 28 AWG polypropylene insulated conductors, foil/braid shield and a LSZH outer jacket. Color is black. L-com will manufacture custom cable assemblies with modest minimum requirements.

CAUZ900MM-1M	LSZH SCSI-3 Cable, HPDB68 Male/Male, 1.0m	34	C-C	116.93	109.92	102.90	CALL
CAUZ900MM-2M	LSZH SCSI-3 Cable, HPDB68 Male/Male, 2.0m	34	C-C	137.68	129.42	121.16	CALL
CAUZ900MM-3M	LSZH SCSI-3 Cable, HPDB68 Male/Male, 3.0m	34	C-C	158.31	148.81	139.31	CALL



SCSI-2 Computer Cables - Molded, Shielded and Compatible with Differential SCSI-2

These differential SCSI-2 cables utilize 25 twisted pair cable and half pitch DB50 connectors. Half pitch connector housings connect via spring locking latches. All cables are fully molded and have foil and copper braid shielding. Lengths are measured in meters.

CA801-05M	SCSI-2 Molded Cable HPDB50 Male/Male, 0.5m	B-B	33.61	31.60	29.58	CALL
CA801-1M	SCSI-2 Molded Cable HPDB50 Male/Male, 1.0m	B-B	38.74	36.42	34.09	CALL
CA801-2M	SCSI-2 Molded Cable HPDB50 Male/Male, 2.0m	B-B	51.74	48.63	45.53	CALL
CA801-3M	SCSI-2 Molded Cable HPDB50 Male/Male, 3.0m	B-B	63.36	59.56	55.76	CALL

Differential SCSI-1 Cables - Fully Populated, 25 Twisted Pairs, Molded and Shielded

These differential SCSI-1 cables are built to the 25 pair standard used with most SCSI-1 equipment. The differential interface on the equipment allows longer distances to be achieved by sending information simultaneously along two pairs of wires. CN50 cables are fully molded and utilize 26 AWG twisted pairs with foil shielding throughout. Cable length is measured in meters.

CA751MM-05M	SCSI-1 Molded Cable, CN50 Male/Male, 0.5m	D-D	39.88	37.49	35.10	CALL
CA751MM-1M	SCSI-1 Molded Cable, CN50 Male/Male, 1.0m	D-D	49.57	46.60	43.62	CALL
CA751MM-2M	SCSI-1 Molded Cable, CN50 Male/Male, 2.0m	D-D	68.83	64.70	60.57	CALL
CA751MM-3M	SCSI-1 Molded Cable, CN50 Male/Male, 3.0m	D-D	88.10	82.81	77.53	CALL

SCSI Gender Changers and Adapters

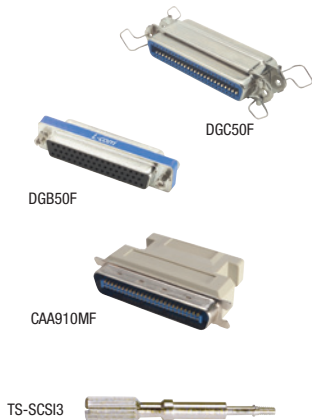
Several models are now offered to satisfy most common applications. Gender changers allow mating of similar cables. Adapters allow the user to match various SCSI cable systems.

DGB50F	Gender Changer, DB50 Female/Female	11.35	10.21	9.08	CALL
DGB50M	Gender Changer, DB50 Male/Male	11.35	10.21	9.08	CALL
DGC50F	50 Pin Gender Changer, CN50 Female/Female	13.77	12.67	11.57	CALL
DGC50M	50 Pin Gender Changer, CN50 Male/Male	13.77	12.67	11.57	CALL
CAA910MF	SCSI Adapter, CN50 Male/HPDB50 Female	37.96	35.68	33.40	CALL

2-56 SCSI-3 Replacement Thumbscrews, Pkg/10

These thumbscrews are designed for all L-com's molded SCSI-3/HPDB68 cable assemblies. Material is steel with nickel finish.

TS-SCSI3	2-56 SCSI-3 Replacement Thumbscrews, Pkg/10	4.92	4.63	4.33	CALL
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Item #	Description	1-9	10-24	25-99	100+
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IEEE-1394 Firewire Cable Assemblies - Transmission Rates to 400 Mbps

Highest quality Firewire cables allow for transfer rates up to 400 Mbps and meet the IEEE-1394 specification. These cables allow for simple Plug and Play connections for devices such as printers, scanners, digital cameras and other firewire peripherals. They can also be used to link two computers together for file sharing. Twisted pair data lines help reduce crosstalk while 22 AWG power conductors enable maximum power transfer from host to peripheral.

IEEE-1394 Firewire Cable, Type 1 to Type 1, PVC Jacket, 30 Microinches (0.762µm) Gold

CSM94-05M	IEEE-1394 Firewire Cable, Type 1/Type 1, 0.5m	13.46	12.38	11.31	CALL
CSM94-1M	IEEE-1394 Firewire Cable, Type 1/Type 1, 1.0m	15.33	14.10	12.87	CALL
CSM94-2M	IEEE-1394 Firewire Cable, Type 1/Type 1, 2.0m	19.06	17.53	16.01	CALL
CSM94-3M	IEEE-1394 Firewire Cable, Type 1/Type 1, 3.0m	22.68	20.87	19.05	CALL
CSM94-5M	IEEE-1394 Firewire Cable, Type 1/Type 1, 5.0m	30.04	27.64	25.23	CALL

IEEE-1394 Firewire Cable, Type 1 to Type 2, PVC Jacket, 30 Microinches (0.762µm) Gold

CSM94-05M2	IEEE-1394 Firewire Cable, Type 1/Type 2, 0.5m	13.46	12.38	11.31	CALL
CSM94-1M2	IEEE-1394 Firewire Cable, Type 1/Type 2, 1.0m	15.33	14.10	12.87	CALL
CSM94-2M2	IEEE-1394 Firewire Cable, Type 1/Type 2, 2.0m	19.06	17.53	16.01	CALL
CSM94-3M2	IEEE-1394 Firewire Cable, Type 1/Type 2, 3.0m	22.68	20.87	19.05	CALL
CSM94-5M2	IEEE-1394 Firewire Cable, Type 1/Type 2, 5.0m	30.04	27.64	25.23	CALL

IEEE-1394 Firewire Extension Cable, Type 1 Connectors, PVC Jacket, 30 Microinches (0.762µm) Gold

CSM94X-1M	IEEE-1394 Firewire Extension Cable, Type 1/Type 1, 1.0m	17.19	15.82	14.44	CALL
CSM94X-2M	IEEE-1394 Firewire Extension Cable, Type 1/Type 1, 2.0m	20.82	19.15	17.49	CALL
CSM94X-3M	IEEE-1394 Firewire Extension Cable, Type 1/Type 1, 3.0m	24.55	22.58	20.62	CALL

IEEE-1394b Firewire Cable Assemblies - Transmission Rates to 800 Mbps

This version of Firewire cable assemblies utilizes a 9 position connector that is compliant with the IEEE-1394b standard. These cables can double the transmission rates of the traditional IEEE-1394a cable assemblies. Cable construction features two individually shielded 26 AWG data pairs plus two 22 AWG power conductors with an overall foil/braid shield and molded backshells. Color is black.

IEEE-1394b Firewire Cable, Type B to Type 1, PVC Jacket, 30 Microinches (0.762µm) Gold

CSM94B1-1M	IEEE-1394b Firewire Cable, Type B/Type 1, 1.0m	22.59	20.78	18.97	CALL
CSM94B1-2M	IEEE-1394b Firewire Cable, Type B/Type 1, 2.0m	27.36	25.17	22.98	CALL
CSM94B1-3M	IEEE-1394b Firewire Cable, Type B/Type 1, 3.0m	32.12	29.55	26.98	CALL
CSM94B1-5M	IEEE-1394b Firewire Cable, Type B/Type 1, 5.0m	41.66	38.32	34.99	CALL

IEEE-1394b Firewire Cable, Type B to Type B, PVC Jacket, 30 Microinches (0.762µm) Gold

CSM94BB-1M	IEEE-1394b Firewire Cable, Type B/Type B, 1.0m	22.59	20.78	18.97	CALL
CSM94BB-2M	IEEE-1394b Firewire Cable, Type B/Type B, 2.0m	27.36	25.17	22.98	CALL
CSM94BB-3M	IEEE-1394b Firewire Cable, Type B/Type B, 3.0m	32.12	29.55	26.98	CALL
CSM94BB-5M	IEEE-1394b Firewire Cable, Type B/Type B, 5.0m	41.66	38.32	34.99	CALL

Waterproof IEEE-1394 Firewire Cable Assemblies - IP67 Rated, Male to Female

L-com now offers IP67 solutions for your harsh environment IEEE-1394 Firewire applications. These robust assemblies feature a specialized IP67 rated 6 position female connector on one end and a standard 6 pin male connector on the other end. These assemblies are perfect for applications where dust and moisture are prevalent and can be used to connect to enclosures, panels, or directly to peripherals or PCs.

WP946PMF-05M	IEEE-1394 Waterproof Firewire Cable, Male/Female, 0.5m	22.07	21.63	20.75	CALL
WP946PMF-2M	IEEE-1394 Waterproof Firewire Cable, Male/Female, 2.0m	23.83	23.36	22.40	CALL
WP946PMF-5M	IEEE-1394 Waterproof Firewire Cable, Male/Female, 5.0m	27.41	26.86	25.76	CALL

IEEE-1394 Firewire Latching Cable Assemblies, Type 1 to Type 1

These assemblies utilize L-com's CN1394L-1 latching Type 1 / 6 position connector on both ends of the cable. The latching connector provides mechanical retention to mating connectors providing a secure connection every time. It is easy to un-mate by depressing the release mechanism and supports Firewire 400 Mbps speeds. L-com can manufacture custom cable assemblies with low minimum quantity requirements and short lead times.

CSM94L-05M	IEEE-1394 Firewire Latching Cable, Type 1 Male/Type 1 Male, 0.5m	23.20	22.74	22.27	CALL
CSM94L-1M	IEEE-1394 Firewire Latching Cable, Type 1 Male/Type 1 Male, 1.0m	24.86	24.46	23.96	CALL
CSM94L-2M	IEEE-1394 Firewire Latching Cable, Type 1 Male/Type 1 Male, 2.0m	28.80	28.22	27.64	CALL
CSM94L-3M	IEEE-1394 Firewire Latching Cable, Type 1 Male/Type 1 Male, 3.0m	32.53	31.88	31.23	CALL
CSM94L-5M	IEEE-1394 Firewire Latching Cable, Type 1 Male/Type 1 Male, 5.0m	39.99	39.19	38.39	CALL

IEEE-1394 Firewire Latching Male Connector, Type 1 (6 Position)

L-com's CN1394L-1 IEEE-1394 Firewire connector is a unique latching male connector that provides mechanical retention to mating connectors providing a secure connection. This latching connector is easy to un-mate by depressing the release mechanism, and supports Firewire 400 Mbps speeds. L-com can manufacture custom cable assemblies using this connector with low minimum quantity requirements and short lead times. Or do it yourself with these easy to solder connectors.

CN1394L-1	IEEE-1394 Firewire Latching Connector, Type 1 Male	13.06	12.27	11.49	CALL
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IEEE-1394 Firewire Shielded Panel Mount Couplers, Type 1 Connectors

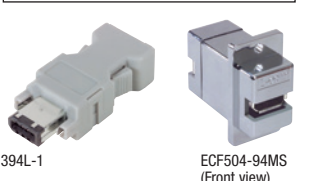
This coupler provides a practical and cost effective way to feed Firewire cables through a panel or enclosure. A unique mounting flange makes these units usable in virtually any panel thickness. Features two Type 1 (6 position) female connectors and metal housing. Recommended 4-40 mounting screws must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

ECF504-94MS	IEEE-1394 Firewire Shielded Coupler, Type 1 Connectors	11.28	11.06	10.61	CALL
ECF440	Machine Screws, 4-40 x 5/16", Pkg/1300	5.18	4.77	4.35	CALL

IEEE-1394 Firewire Connector Covers, 6 Position - Protect Unused Ports, Pkg/10

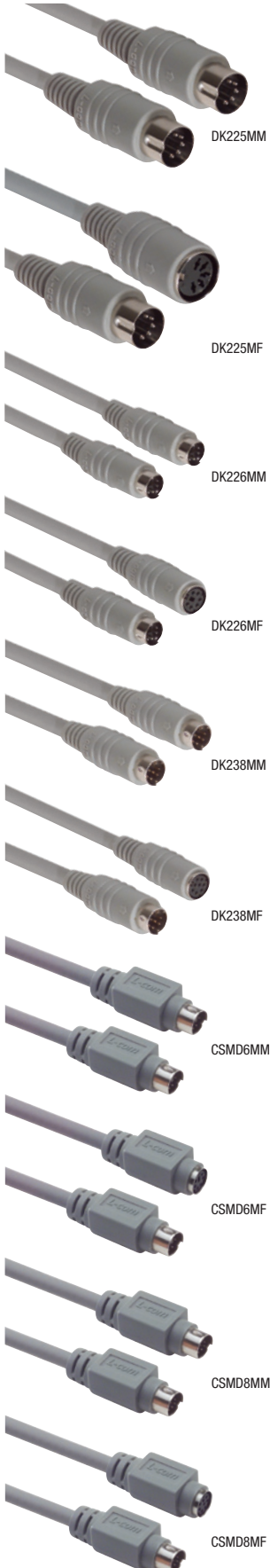
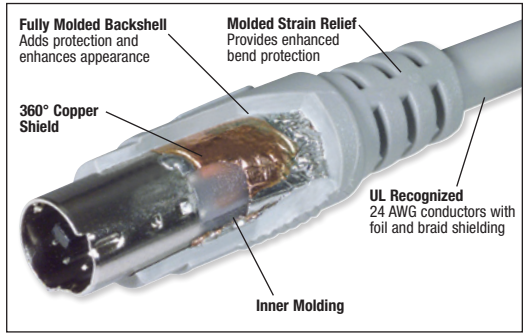
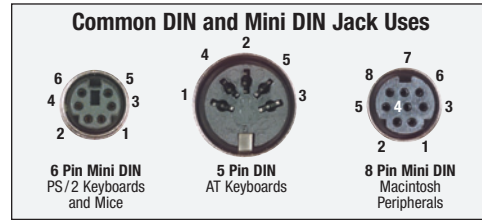
These covers are perfect for protecting unused female ports in our panel mount couplers or any expensive equipment from physical damage, dirt and dust. Made from soft ABS, these covers attach easily and stay in place with a snug friction fit. Color is black.

CAP1394-6P	IEEE-1394 Firewire Protective Cover for Type 1 Jacks, Pkg/10	7.77	7.15	6.53	CALL
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DIN and Mini DIN Cables for Computer Keyboards, Mice and Other Uses

These Premium DK Series are the finest DIN /Mini DIN cables on the market. As the illustration reveals, the painstaking attention to detail beneath the surface makes the difference. All DK cables listed are wired straight-thru, fully populated, double shielded (copper braid and aluminum mylar), 24 AWG and fully over molded.



Item #	Description	1-9	10-24	25-99	100+
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Premium DIN 5 Cables - Fully Populated - Double Shielded

DK225MM-3	Molded Cable, DIN 5 Male / Male, 3.0ft (0.9m)	7.95	7.47	7.00	CALL
DK225MM-6	Molded Cable, DIN 5 Male / Male, 6.0ft (1.8m)	11.47	10.78	10.10	CALL
DK225MM-10	Molded Cable, DIN 5 Male / Male, 10.0ft (3.0m)	16.17	15.20	14.23	CALL
DK225MM-20	Molded Cable, DIN 5 Male / Male, 20.0ft (6.0m)	27.91	26.23	24.56	CALL
DK225MM-25	Molded Cable, DIN 5 Male / Male, 25.0ft (7.6m)	33.78	31.75	29.73	CALL
DK225MF-3	Molded Extension Cable, DIN 5, Male / Female, 3.0ft (0.9m)	7.95	7.47	7.00	CALL
DK225MF-6	Molded Extension Cable, DIN 5, Male / Female, 6.0ft (1.8m)	11.47	10.78	10.10	CALL
DK225MF-10	Molded Extension Cable, DIN 5, Male / Female, 10.0ft (3.0m)	16.17	15.20	14.23	CALL
DK225MF-20	Molded Extension Cable, DIN 5, Male / Female, 20.0ft (6.0m)	27.91	26.23	24.56	CALL
DK225MF-25	Molded Extension Cable, DIN 5, Male / Female, 25.0ft (7.6m)	33.78	31.75	29.73	CALL

Premium Mini DIN 6 Cables - Fully Populated - Double Shielded

DK226MM-1	Molded Cable, Mini DIN 6 Male / Male, 1.0ft (0.3m)	8.16	7.67	7.18	CALL
DK226MM-2	Molded Cable, Mini DIN 6 Male / Male, 2.0ft (0.6m)	9.34	8.78	8.22	CALL
DK226MM-3	Molded Cable, Mini DIN 6 Male / Male, 3.0ft (0.9m)	10.51	9.88	9.25	CALL
DK226MM-6	Molded Cable, Mini DIN 6 Male / Male, 6.0ft (1.8m)	14.03	13.19	12.35	CALL
DK226MM-10	Molded Cable, Mini DIN 6 Male / Male, 10.0ft (3.0m)	18.73	17.61	16.48	CALL
DK226MM-15	Molded Cable, Mini DIN 6 Male / Male, 15.0ft (4.6m)	24.60	23.12	21.65	CALL
DK226MM-20	Molded Cable, Mini DIN 6 Male / Male, 20.0ft (6.0m)	30.47	28.64	26.81	CALL
DK226MM-25	Molded Cable, Mini DIN 6 Male / Male, 25.0ft (7.6m)	36.34	34.16	31.98	CALL
DK226MF-3	Molded Extension Cable, Mini DIN 6 Male / Female, 3.0ft (0.9m)	10.51	9.88	9.25	CALL
DK226MF-6	Molded Extension Cable, Mini DIN 6 Male / Female, 6.0ft (1.8m)	14.03	13.19	12.35	CALL
DK226MF-10	Molded Extension Cable, Mini DIN 6 Male / Female, 10.0ft (3.0m)	18.73	17.61	16.48	CALL
DK226MF-15	Molded Extension Cable, Mini DIN 6 Male / Female, 15.0ft (4.6m)	24.60	23.12	21.65	CALL
DK226MF-20	Molded Extension Cable, Mini DIN 6 Male / Female, 20.0ft (6.0m)	30.47	28.64	26.81	CALL
DK226MF-25	Molded Extension Cable, Mini DIN 6 Male / Female, 25.0ft (7.6m)	36.34	34.16	31.98	CALL

Premium Mini DIN 8 Cables - Fully Populated - Double Shielded

DK238MM-1	Molded Cable, Mini DIN 8 Male / Male, 1.0ft (0.3m)	10.25	9.63	9.02	CALL
DK238MM-2	Molded Cable, Mini DIN 8 Male / Male, 2.0ft (0.6m)	11.42	10.73	10.05	CALL
DK238MM-3	Molded Cable, Mini DIN 8 Male / Male, 3.0ft (0.9m)	12.59	11.84	11.08	CALL
DK238MM-6	Molded Cable, Mini DIN 8 Male / Male, 6.0ft (1.8m)	16.12	15.15	14.18	CALL
DK238MM-10	Molded Cable, Mini DIN 8 Male / Male, 10.0ft (3.0m)	20.81	19.56	18.31	CALL
DK238MM-15	Molded Cable, Mini DIN 8 Male / Male, 15.0ft (4.6m)	26.68	25.08	23.48	CALL
DK238MM-20	Molded Cable, Mini DIN 8 Male / Male, 20.0ft (6.0m)	32.55	30.60	28.65	CALL
DK238MM-25	Molded Cable, Mini DIN 8 Male / Male, 25.0ft (7.6m)	38.42	36.12	33.81	CALL
DK238MF-3	Molded Extension Cable, Mini DIN 8 Male / Female, 3.0ft (0.9m)	12.59	11.84	11.08	CALL
DK238MF-6	Molded Extension Cable, Mini DIN 8 Male / Female, 6.0ft (1.8m)	16.12	15.15	14.18	CALL
DK238MF-10	Molded Extension Cable, Mini DIN 8 Male / Female, 10.0ft (3.0m)	20.81	19.56	18.31	CALL
DK238MF-15	Molded Extension Cable, Mini DIN 8 Male / Female, 15.0ft (4.6m)	26.68	25.08	23.48	CALL
DK238MF-20	Molded Extension Cable, Mini DIN 8 Male / Female, 20.0ft (6.0m)	32.55	30.60	28.65	CALL
DK238MF-25	Molded Extension Cable, Mini DIN 8 Male / Female, 25.0ft (7.6m)	38.42	36.12	33.81	CALL

Economy Mini DIN Cables - Shielded, Molded, Fully Populated

These cables provide an economical choice suitable for many applications and are comparable with most cables on the market. Available with Mini DIN 6 or 8 position connectors. Construction features durable PVC mold, 28 AWG conductors and 360 degree foil shield. Color is gray.

Economy Mini DIN 6 Cables - Male to Male and Male to Female

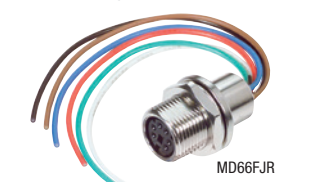
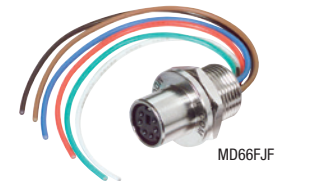
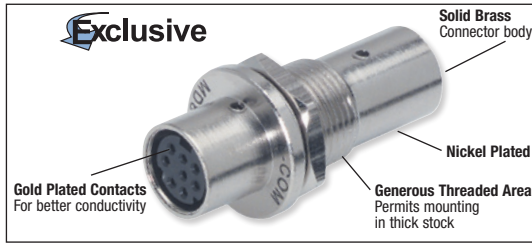
CSMD6MM-3	Economy Molded Cable, Mini DIN 6 Male / Male, 3.0ft (0.9m)	5.23	4.92	4.60	CALL
CSMD6MM-6	Economy Molded Cable, Mini DIN 6 Male / Male, 6.0ft (1.8m)	6.46	6.07	5.68	CALL
CSMD6MM-10	Economy Molded Cable, Mini DIN 6 Male / Male, 10.0ft (3.0m)	8.11	7.62	7.14	CALL
CSMD6MM-25	Economy Molded Cable, Mini DIN 6 Male / Male, 25.0ft (7.6m)	14.30	13.44	12.59	CALL
CSMD6MF-3	Economy Molded Cable, Mini DIN 6 Male / Female, 3.0ft (0.9m)	5.23	4.92	4.60	CALL
CSMD6MF-6	Economy Molded Cable, Mini DIN 6 Male / Female, 6.0ft (1.8m)	6.46	6.07	5.68	CALL
CSMD6MF-10	Economy Molded Cable, Mini DIN 6 Male / Female, 10.0ft (3.0m)	8.11	7.62	7.14	CALL
CSMD6MF-25	Economy Molded Cable, Mini DIN 6 Male / Female, 25.0ft (7.6m)	14.30	13.44	12.59	CALL

Economy Mini DIN 8 Cables - Male to Male and Male to Female

CSMD8MM-3	Economy Molded Cable, Mini DIN 8 Male / Male, 3.0ft (0.9m)	6.62	6.22	5.82	CALL
CSMD8MM-6	Economy Molded Cable, Mini DIN 8 Male / Male, 6.0ft (1.8m)	8.38	7.88	7.37	CALL
CSMD8MM-10	Economy Molded Cable, Mini DIN 8 Male / Male, 10.0ft (3.0m)	10.73	10.08	9.44	CALL
CSMD8MM-25	Economy Molded Cable, Mini DIN 8 Male / Male, 25.0ft (7.6m)	19.53	18.36	17.19	CALL
CSMD8MF-3	Economy Molded Cable, Mini DIN 8 Male / Female, 3.0ft (0.9m)	6.62	6.22	5.82	CALL
CSMD8MF-6	Economy Molded Cable, Mini DIN 8 Male / Female, 6.0ft (1.8m)	8.38	7.88	7.37	CALL
CSMD8MF-10	Economy Molded Cable, Mini DIN 8 Male / Female, 10.0ft (3.0m)	10.73	10.08	9.44	CALL
CSMD8MF-25	Economy Molded Cable, Mini DIN 8 Male / Female, 25.0ft (7.6m)	19.53	18.36	17.19	CALL

DIN and Mini DIN Adapters and Connectors

These adapters are an L-com exclusive. Useful in many applications including S-video, computer mice, keyboards and instrumentation. A unique design permits easy mounting in standard size 0.5" (1.3cm) and 0.75" (1.9cm) circular or D shaped openings allowing the use of common punch tooling. Adapter bodies are machined from solid brass. Bright nickel plating provides corrosion resistance and a quality appearance. Gold plated contacts ensure reliable connections. Custom versions will be considered with modest minimums, please contact our sales group for assistance.



Item #	Description	1-9	10-24	25-99	100+
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DIN and Mini DIN Feed-thru Adapters - Panel and Wall Plate Mountable

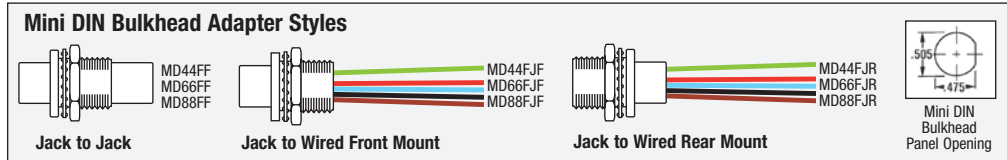
These exclusive adapters offer a unique design suitable for panel mounting DIN and Mini DIN adapters. Female-Female gender.

MD44FF	Feed-Thru Adapter, Mini DIN 4, Female / Female	9.57	8.81	8.04	CALL
MD66FF	Feed-Thru Adapter, Mini DIN 6, Female / Female	10.39	9.56	8.73	CALL
MD88FF	Feed-Thru Adapter, Mini DIN 8, Female / Female	10.72	9.86	9.00	CALL
DD55F	Feed-Thru Adapter, DIN 5, Female / Female	10.72	9.86	9.00	CALL

Mini DIN Bulkhead Jack to Flying Leads

Machined adapters utilize 4, 6 or 8 26 AWG color coded wires for chassis termination.

MD44FJF	Mini DIN 4 Bulkhead Jack / Leads, Front Mount	10.67	9.82	8.97	CALL
MD66FJF	Mini DIN 6 Bulkhead Jack / Leads, Front Mount	11.59	10.66	9.73	CALL
MD88FJF	Mini DIN 8 Bulkhead Jack / Leads, Front Mount	11.91	10.96	10.01	CALL
MD44FJR	Mini DIN 4 Bulkhead Jack / Leads, Rear Mount	10.67	9.82	8.97	CALL
MD66FJR	Mini DIN 6 Bulkhead Jack / Leads, Rear Mount	11.59	10.66	9.73	CALL
MD88FJR	Mini DIN 8 Bulkhead Jack / Leads, Rear Mount	11.91	10.96	10.01	CALL



Mini DIN 6 and 8 Gender Changers

DMB536F	Gender Changer, Mini DIN 6 Female / Female	5.17	4.86	4.55	CALL
DMB538F	Gender Changer, Mini DIN 8 Female / Female	5.17	4.86	4.55	CALL

Premium Mini DIN 6 Y Cable - Fully Populated - Double Shielded - Male to (2) Female

K23-MDY	Molded Y Cable, Mini DIN 6 Male / 2 Mini DIN 6 Female, 1.25 ft (0.381m)	9.77	8.98	8.20	CALL
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Mini DIN 4-S-Video Jack for Field Termination

The MD44FT Field Termination Mini DIN 4 Female jack offers a quick and easy field termination using common tools. Terminal blocks with set screws ensure reliable electrical connections. The terminal block area is clearly marked making field termination virtually foolproof. This unit is designed to fit common 0.5" (1.3cm) circular or D style openings. The undercut PCB area provides a convenient area to secure a cable tie wrap resulting in a neat dressing for the terminated cable. Custom configurations will be considered with modest minimums.

MD44FT	Mini DIN 4 Female Field Termination Jack	7.93	7.29	6.66	CALL
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Tip Typical installation of an MD44FT field installable jack

STEP 1

Prepare coaxial lines.

STEP 2

Insert center conductors, shields and tighten set screws.

STEP 3

Secure cable with cable tie to connector.

STEP 4

Attach to faceplate and install.

Interface Modules - DIN Rail Mountable, with Shielded D-Sub and RJ45 Connectors

These DIN rail mountable interface modules feature a unique series of plated through holes that allow for the insertion of electronic components inline or across any circuit. Modules are available with shielded DB9, DB15, DB25 and DB37 female connectors. Also listed is a shielded RJ45 jack version. Terminal block connectors accept 26-12 AWG wire, are easily terminated and do not require crimp ferrules. Please inquire on any custom modifications required.

RBMD809F	Interface Module, DB9 Female	67.55	66.20	64.85	CALL
RBMD15F	Interface Module, DB15 Female	76.15	74.63	73.10	CALL
RBMD25F	Interface Module, DB25 Female	88.38	86.61	84.84	CALL
RBMD37F	Interface Module, DB37 Female	104.33	102.25	100.16	CALL
RBMIRJ45F	Interface Module, RJ45 Jack	61.44	60.21	58.98	CALL

