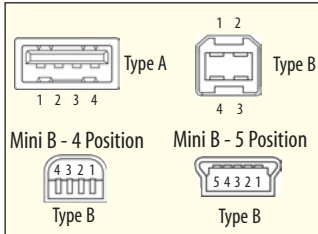


USB Plugs
Mating Side Views

Item #	Description	1-9	10-24	25-99	100-249	250-499
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Universal Serial Bus 2.0 (USB) Cable Assemblies Allow Transmission Speeds To 480Mbps

Our expanded offering of USB cable assemblies now includes a Low Smoke Zero Halogen version. All assemblies are fully shielded and feature rugged molded backshells.

Premium USB Cable - Type A - A Connectors, PVC Jacket, 30 Microinch Gold

CSMUAA-05M	Premium USB Type A - A Cable, 0.5m	7.95	7.16	6.36	5.57	4.77
CSMUAA-1M	Premium USB Type A - A Cable, 1.0m	8.45	7.61	6.76	5.91	5.07
CSMUAA-2M	Premium USB Type A - A Cable, 2.0m	9.45	8.50	7.56	6.61	5.67
CSMUAA-3M	Premium USB Type A - A Cable, 3.0m	10.45	9.40	8.36	7.31	6.27
CSMUAA-5M	Premium USB Type A - A Cable, 5.0m	12.45	11.21	9.96	8.71	7.47

Premium USB Cable - Type A - B Connectors, PVC Jacket, 30 Microinch Gold

CSMUAB-05M	Premium USB Type A - B Cable, 0.5m	6.95	6.26	5.56	4.87	4.17
CSMUAB-1M	Premium USB Type A - B Cable, 1.0m	7.45	6.71	5.96	5.22	4.47
CSMUAB-2M	Premium USB Type A - B Cable, 2.0m	8.45	7.61	6.76	5.91	5.07
CSMUAB-3M	Premium USB Type A - B Cable, 3.0m	9.45	8.50	7.56	6.61	5.67
CSMUAB-5M	Premium USB Type A - B Cable, 5.0m	11.45	10.31	9.16	8.01	6.87

Premium USB Cable - Type A - Mini B 4 Position, PVC Jacket, 30 Microinch Gold

CSMUAMB4-1M	Premium USB Type A - Mini B 4 Position Cable, 1.0m	10.85	9.77	8.68	7.59	6.51
CSMUAMB4-2M	Premium USB Type A - Mini B 4 Position Cable, 2.0m	12.20	10.98	9.76	8.54	7.32
CSMUAMB4-3M	Premium USB Type A - Mini B 4 Position Cable, 3.0m	13.55	12.20	10.84	9.49	8.13

Premium USB Cable - Type A - Mini B 5 Position, PVC Jacket, 30 Microinch Gold

CSMUAMB5-1M	Premium USB Type A - Mini B 5 Position Cable, 1.0m	9.85	8.87	7.88	6.90	5.91
CSMUAMB5-2M	Premium USB Type A - Mini B 5 Position Cable, 2.0m	11.20	10.08	8.96	7.84	6.72
CSMUAMB5-3M	Premium USB Type A - Mini B 5 Position Cable, 3.0m	12.55	11.30	10.04	8.79	7.53

Premium USB Extension Cable - Type A Connectors, PVC Jacket, 30 Microinch Gold

CSMUAX-1M	Premium USB Type A Male / Female Extension Cable, 1.0m	7.95	7.16	6.36	5.57	4.77
CSMUAX-2M	Premium USB Type A Male / Female Extension Cable, 2.0m	8.95	8.06	7.16	6.26	5.37
CSMUAX-3M	Premium USB Type A Male / Female Extension Cable, 3.0m	9.95	8.96	7.96	6.96	5.97

Low Smoke Zero Halogen USB Cable - Type A - B Connectors, 30 Microinch Gold

Low smoke zero halogen cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, low smoke zero halogen is becoming very popular where the protection of people and equipment from toxic and corrosive gases is critical.

CSUZAB-1M	LSZH USB Type A - B Cable, 1.0m	13.45	12.37	11.30	10.22	9.15
CSUZAB-2M	LSZH USB Type A - B Cable, 2.0m	16.45	15.13	13.82	12.50	11.19
CSUZAB-3M	LSZH USB Type A - B Cable, 3.0m	19.45	17.89	16.34	14.78	13.23
CSUZAB-5M	LSZH USB Type A - B Cable, 5.0m	25.45	23.41	21.38	19.34	17.31

TIP: What is USB?

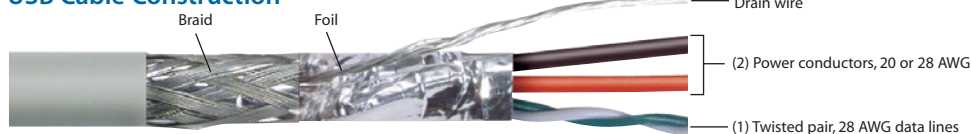
Universal Serial Bus is a high speed connectivity standard enabling simple plug and play connections to devices such as modems, digital cameras, camcorders, keyboards and mice. The standard is being supported by many leading suppliers of computers and peripherals. An attractive advantage of USB is that the devices are hot pluggable (live connection/disconnection without data loss or interruption). Devices manufactured to the current USB Revision 2.0 specification are backward compatible with version 1.1.

Connectors

Type A Plug
(4 position)Type A Jack
(4 position)Type B Plug
(4 position)Type B Jack
(4 position)Mini Type B Plug
(4 position)Mini Type B Jack
(4 position)Mini Type B Plug
(5 position)Mini Type B Jack
(5 position)

The USB specification requires a host system to be equipped with an A type jack. The B type jack is typically found on peripheral devices requiring detachable cables. Therefore, detachable USB cables are configured as an A to B male combination which prevents improper bus configurations and topology miswiring.

USB Cable Construction

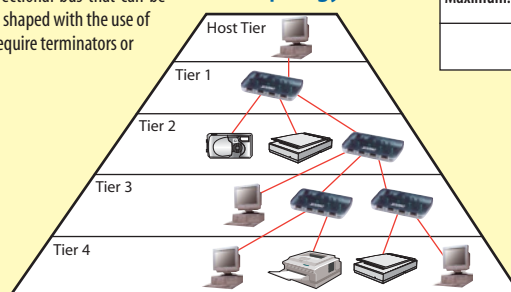


L-com's CSMUAA, CSMUAB, CSMUAX and CSUZAB cable series use 20 AWG power conductors. All CSMUAMB (Mini B) cable series use 28 AWG power conductors.

Topology

USB is a serial, bi-directional bus that can be layered in tiers or star shaped with the use of a hub. USB does not require terminators or manual addressing.

Tier Topology



Technical Data: USB Limitations

Maximum:	Transmission Rate	Cable Length/Node	Devices/Bus	Tiers/Bus
	Rev. 2.0, 480Mbps Rev. 1.1, 12Mbps	5 meters	127	5

Star Topology

