

Item #	Description	1-9	10-24	25-99	100-249	250-499
✓RoHS	Waterproof USB Cable Assemblies - IEC IP67 Rated, Revision 2.0 Compliant					
WPUSBAB-2M	USB Cable, Waterproof Type A Male / Standard Type B Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBAB-5M	USB Cable, Waterproof Type A Male / Standard Type B Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSBAX-05M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 0.5m	17.50	17.15	16.45	15.40	13.13
WPUSBAX-1M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 1.0m	18.00	17.64	16.92	15.84	13.50
WPUSBAX-2M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBAX-3M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 3.0m	20.00	19.60	18.80	17.60	15.00
WPUSBAX-5M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSBBA-05M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 0.5m	17.50	17.15	16.45	15.40	13.13
WPUSBBA-1M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 1.0m	18.00	17.64	16.92	15.84	13.50
WPUSBBA-2M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBBA-3M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 3.0m	20.00	19.60	18.80	17.60	15.00
WPUSBBA-5M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSBBB-2M	USB Cable, Waterproof Type B Male / Standard Type B Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBBB-5M	USB Cable, Waterproof Type B Male / Standard Type B Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSB-CVR	Waterproof USB/Firewire Cover with Metal Lanyard	4.35	4.09	3.83	3.57	3.31
WPCVR-USB-1394	Waterproof USB/Firewire Cover with Rubber Lanyard	4.35	4.09	3.83	3.57	3.31

✓RoHS Waterproof USB Jacks with 10" Wire Leads - Type A and Type B Available

This product is ideal for enclosures or panels that are exposed to harsh environments. Wire leads are 24 AWG and can easily be soldered into a PCB or terminated with a variety of connectors.

WPUSBAF	USB Jack, Waterproof Type A with 10" Wire Leads	15.00	14.10	13.20	12.30	11.40
WPUSBBF	USB Jack, Waterproof Type B with 10" Wire Leads	15.00	14.10	13.20	12.30	11.40
WPUSB-CVR	Waterproof USB/Firewire Cover with Metal Lanyard	4.35	4.09	3.83	3.57	3.31
WPCVR-USB-1394	Waterproof USB/Firewire Cover with Rubber Lanyard	4.35	4.09	3.83	3.57	3.31

✓RoHS Nylon Nut and Gaskets for Housing Size 13/16-28

L-com offers easy to install replacement gaskets and nuts for its popular IP67 rated USB and Firewire cable assemblies. (WPUSBAX, WPUSBBA, WPUSBBF, WPUSBAF and WP946PMF). Sold in 10 packs.

WPNUT-13/16-28	USB Replacement Hex Nut, Pkg/10	5.25	4.83	4.41	3.99	3.57
WPGASKET-13/16	USB Replacement Rubber Gasket, Pkg/10	2.25	2.07	1.89	1.71	1.53

✓RoHS Waterproof USB Cable, Mini B 5 Female - Mini B 5 Male

L-com's exclusive Waterproof USB Mini B 5 position cable assemblies are designed for the most demanding industrial applications where dust and moisture are present.

WPUSBMB5X-05M	Waterproof USB Cable, Mini B 5 Female / Mini B 5 Male, 0.5m	18.50	18.13	17.39	16.28	13.88
WPUSBMB5X-2M	Waterproof USB Cable, Mini B 5 Female / Mini B 5 Male, 2.0m	20.00	19.60	18.80	17.60	15.00
WPUSBMB5X-5M	Waterproof USB Cable, Mini B 5 Female / Mini B 5 Male, 5.0m	23.00	22.54	21.62	20.24	17.25
WPUSBMINI-CVR	USB Cover for WPUSBMB5X Series Cables	4.65	4.37	4.09	3.81	3.53



Tip Waterproof Connectors - Where are they used and how are they rated?

Where are they used?

Applications for these connectors are numerous and include automotive, communication, industrial and medical instruments. Dust and moisture are the two most common contaminants that enter through exposed data ports, damaging or destroying electronic equipment. Fortunately, specially sealed cables and connectors are available from L-com to protect these ports from dust and moisture.

L-com offers a number of protected interface types including:

D-subminiature	RJ45	USB	Fiber Optic
for many serial and parallel devices	for industrial Ethernet applications	for device interconnection and data transfer	for industrial networks/harsh environments
			
WPDB Series	WJP Series	WPUSB Series	FODLC-IND Series

How are they rated?

The most popular system to rate the environmental protection of a particular connector is the Ingress Protection Rating (commonly known as IP Rating). The IP Rating is a number ranging from 1 to 3 digits.

- The first digit rates protection against ingress of solid objects
- The second digit rates protection against ingress of liquids
- The third digit rates protection against impact damage

Note: Many products, including L-com products, are not rated for impact. Larger value digits indicate greater protection against that substance/force.

Please see the chart below for details of the first two digit ratings:

First number (Protection against solid objects)	Definition	Second number (Protection against liquids)	Definition
0	No protection	0	No protection
1	Protected against solid objects over 50mm (e.g. accidental touch by hands)	1	Protected against vertically falling drops of water
2	Protected against solid objects over 12mm (e.g. fingers)	2	Protected against direct sprays up to 15° from the vertical
3	Protected against solid objects over 2.5mm (e.g. tools and wires)	3	Protected against direct sprays up to 60° from the vertical
4	Protected against solid objects over 1mm (e.g. tools, wires and small wires)	4	Protected against sprays from all directions - limited ingress permitted
5	Protected against dust - limited ingress (no harmful deposit)	5	Protected against low pressure jets of water from all directions - limited ingress permitted
6	Totally protected against dust	6	Protected against strong jets of water, e.g. for use on ship decks - limited ingress permitted
		7	Protected against the effects of temporary immersion between 15cm and 1m. Duration of test 30 minutes
		8	Protected against long periods of immersion under pressure

More waterproof products are available

See a complete list at L-com.com/Waterproof

