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Ruggedized RJ45 Plugs and Jacks:

In today's world of high-speed communications, Ethernet has become the standard platform for all voice, video and data services. L-com's new ruggedized family of RJ45 plugs and receptacles provide an efficient, comprehensive and affordable solution to Ethernet connectivity for harsh and environmentally challenged applications. These parts feature 100% transversely sealed (IP-68) configurations as a standard product design, thus preventing dust, water and moisture penetration, with or without dust cap or plug engagement. The ruggedized parts offer comprehensive shielding and grounding effectiveness capable of sustaining higher data transmission rates as well as Electro-Magnetic Conductance (EMC) for Military applications (only Zinc-Nickel finished parts offer EMC grounding). Lastly, the ruggedized components feature multiple pre-kitted solutions including gaskets, O-rings, mounting brackets and hardware. This makes it easier for customers to procure, install and integrate these components. Suggested areas of usage include Data, VOIP, IPTV in harsh environments, 10/100/1000 Base-T networks, battlefield communication systems, industrial process control, data acquisition and control, factory environments, radar systems, railways and shelters among other things.



Ruggedized RJ45 Plugs

L-com's ruggedized RJ45 plugs are transversely sealed and designed to integrate with other ruggedized jam-nuts, flange mounts and in-line receptacles. Special compressive fittings allow these plugs to work with shielded or unshielded cable. A compression nut establishes 10lb of cable strain relief establishing robust cable strength. Internal conductive compression is used to interoperate with the cable braid to form a 360° ground plane. These parts are designed to work with cables that have an outer diameter of .190-.270 inches. Plugs that utilize a larger diameter cables are available upon request. Plugs are available with or without dust caps. Ruggedize your plugs for harsh environmental applications today!

ECRA0211UA0	Ruggedized RJ45 Plug, Anodized Finish, Fits Cable OD .190-.270 inches	61.89
ECRA0213UA0	Ruggedized RJ45 Plug, Zinc-Nickel Finish, Fits Cable OD .190-.270 inches	71.62
ECRA4211UA0	Ruggedized RJ45 Plug, Anodized Finish, Fits Cable OD .190-.270 inches with Dust Cap	88.00
ECRA4213UA0	Ruggedized RJ45 Plug, Zinc-Nickel Finish, Fits Cable OD .190-.270 inches with Dust Cap	98.85

Ruggedized RJ45 Flange Mount Receptacle

These ruggedized RJ45 Flange mounts are transversely sealed for complete moisture and dust protection. L-com's ECRD line provides both the Flange mount and sealing gasket. Zinc-Nickel versions are available with an EMC grounding plate on both sides of the receptacle to ensure full grounding of shielded RJ45 cables sets. Flanges are available with or without dust caps. See L-com.com for our full line of harsh environment products.

ECRD0103U00	Ruggedized Flange Mount, Zinc-Nickel Finish with Grounding Shield	47.09
ECRD0201U00	Ruggedized Flange Mount, Anodized Finish	35.05
ECRD0203U00	Ruggedized Flange Mount, Zinc-Nickel Finish	40.65
ECRD3103U00	Ruggedized Flange Mount, Zinc-Nickel Finish with Grounding Shield and Dust Cap	68.04
ECRD3201U00	Ruggedized Flange Mount, Anodized Finish with Dust Cap	54.90
ECRD3203U00	Ruggedized Flange Mount, Zinc-Nickel Finish with Dust Cap	61.61

Ruggedized RJ45 Flange Mount Receptacles with Full Mounting Hardware

The ECRF line comes with full mounting hardware including bracket, self-sealing mounting screws, and O-rings for an easy installation. Zinc-Nickel versions are available with an EMC grounding plate on both sides of the receptacle to ensure full grounding of shielded RJ45 cord sets. Flanges are available with or without dust caps.

ECRH0103U00	Ruggedized Flange Mount, Zinc-Nickel Finish with Grounding Shield and Mounting Hardware	56.37
ECRH0201U00	Ruggedized Flange Mount, Anodized Finish with Mounting Hardware	44.18
ECRH0203U00	Ruggedized Flange Mount, Zinc-Nickel Finish with Mounting Hardware	49.93
ECRH3103U00	Ruggedized Flange Mount, Zinc-Nickel Finish with Grounding Shield, Mounting Hardware and Dust Cap	77.32
ECRH3201U00	Ruggedized Flange Mount, Anodized Finish with Mounting Hardware and Dust Cap	64.03
ECRH3203U00	Ruggedized Flange Mount, Zinc-Nickel Finish with Mounting Hardware and Dust Cap	70.88

Ruggedized RJ45 Jam-Nut Receptacle

L-com's transversely sealed jam-nuts are an ideal fit for situations requiring a ruggedized RJ45 jack and a simple D-hole for mounting with no additional hardware required. Zinc-Nickel versions are available with an EMC grounding plate on both sides of the receptacle to ensure proper grounding for shielded RJ45 cables. Jam-nuts are available both with and without dust caps. Call today to discuss custom solutions for all your interconnect needs.

ECRK0103U00	Ruggedized Jam-nut, Zinc-Nickel Finish with Grounding Shield	55.56
ECRK0201U00	Ruggedized Jam-nut, Anodized Finish	40.68
ECRK0203U00	Ruggedized Jam-nut, Zinc-Nickel Finish	46.09
ECRK2103U00	Ruggedized Jam-nut, Zinc-nickel Finish with Grounding Shield and Dust Cap	84.79
ECRK2201U00	Ruggedized Jam-nut, Anodized Finish with Dust Cap	67.70
ECRK2203U00	Ruggedized Jam-nut, Zinc-Nickel Finish with Dust Cap	75.31

Ruggedized RJ45 In-line Receptacle

These ruggedized RJ45 receptacles are transversely sealed but also designed to work L-com's line of ruggedized RJ45 plugs. These parts are designed to work with cables that have an outer diameter of .190-.270 inches. Receptacles made to work with larger diameter cables are available upon request. The Zinc-Nickel version contains an EMC grounding plate to ensure full grounding of shielded RJ45 cables. Order ruggedized connectors online today.

ECRP5103UA0	Ruggedized RJ45 Receptacle, Zinc-Nickel Finish with Grounding Shield and Dust Cap, Fits Cable OD .190-.270 inches	100.95
ECRP5201UA0	Ruggedized RJ45 Receptacle, Anodized Finish with Dust Cap, Fits Cable OD .190-.270 inches	83.66



Grounding RJ45 ruggedized jacks

Many applications that require the use of higher data rates require proper grounding and shielding. To address this, L-com offers our Zinc-Nickel finished line of RJ45 Ruggedized jacks which are designed to establish sufficient grounding between shielded cord sets and chassis ground. They also provide EMC/EMI shielding for applications where immunity to electromagnetic interference is crucial. The parts provide <math><0.033\Omega</math> for shielded cable to cable or cable to ground use. This is accomplished using a grounding plate, conductive O-ring and gasket. The parts adhere to and are tested to IAW MIL-STD-461F, RS103 for EMI emission and susceptibility.



EMC Shroud (front view) – conductive surface with shielded cable and receptacle or chassis ground



EMC Shroud (rear view) – conductive surface with shielded cable

