Harsh Duty Ethernet Connectors and Cabling

Overview

By combining standard RJ-45 connection technology with the industrially-proven mini form factor, these Industrial Ethernet Connectivity products provide a line-up designed to safeguard the integrity of your data even in the harshest manufacturing, processing or commercial settings.

Features

- Environmental Sealing
- Vibration Resistance
- Secure Robust Connections
- Performance in Electrically Noisy Conditions

Receptacles

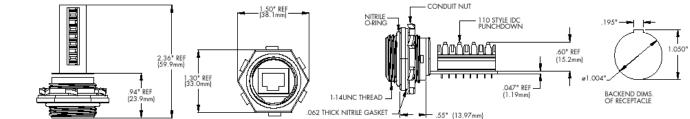
The following receptacles offer solutions for Ethernet field device connectivity, regardless of the operating environment. All receptacles are compatible with commercial RJ-45 connectors, enabling one solution for both harsh and benign environments.



110 Punchdown Block

Simple termination via Insulation Displacement Connections (IDC) with the use of commonly available punchdown tools. Ideal for premise wiring applications.

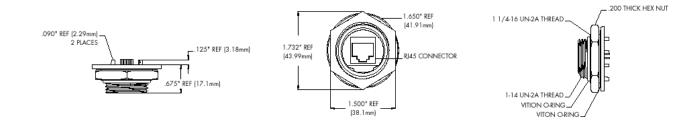
ENDR2FB5110 receptacle, 568A and 568B wiring, back-side locking nut





Direct PCB Mount Receptable

Short depth receptacle that solders directly to a Printed Circuit Board (PCB)-intended for OEMs who wish to incorporate a robust, sealed connection into their field equipment. **ENPR1FF5......Direct PCB-mount, 8-pin through-hole receptable, front coupling nut**



International Headquarters: **B** & **B** Electronics Mfg. Co. 707 Dayton Road P.O. Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 www.bb-elec.com orders@bb-elec.com support@bb-elec.com

B & **B** Electronics Ltd Westlink Commercial Park Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445 www.bb-europe.com orders@bb-elec.com support@bb-europe.com



Closure Cap

Maintains sealing integrity when a connector is not mated with the receptacle. 67-0300 IP67 rated closure cap with lanyard

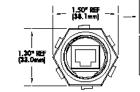


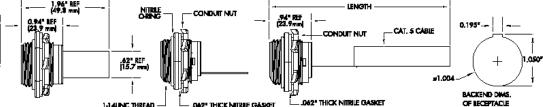
Standard PCB Board Receptacle

Highly flexible, enables an OEM or end-user to solder a cable lead to an internal Ethernet connection.

ENSR1FB5..... Receptacle with PC board

ENSR1FB5C305.... Receptacle with PCB & 12" of cable (1oBase-T)



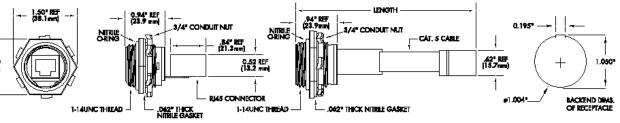




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Bulkhead Passthrough

ENSP1F5C305....RJ-45 Bulkhead passthrough with 12" of patch cord



Receptacle Specifications

O-Ring Material: **Receptacle Shell Material:** Knockout Hole for Receptacle: Mating Thread: **Operating Temperature:** Return Loss: Shock/Vibration: **Environmental Rating: TIA/EIA Rating** 110 Punchdown: Bulkhead Passthrough: Direct PCB Mount: Standard PC Board: RJ-45 Jack Base Material: Underplating: Mating Cycles: Current Rating: Voltage Rating:

Nitrile Rubber Acrylonitrile-Butadiene-Styrene (ABS)—standard version 1.031 UNC 1" - 14 -20 to 80 °C 5 dB @ 100 MHZ Per IEC 60068-2-6 IEC IP67 Category 5e compliant Category 5e compliant

Category 5e compliant Category 5 compliant Not Rated—additional customer termination is required

Copper alloy w/30 μ -inches, gold alloy 2.54 microns of nickel 250, minimum 1.5 Amp 125 VDC

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Simplify

Expand

Integrate

Cordsets

Cordsets utilize a standard RJ-45 plug, but add strain relief and a locking mechanism that creates a seal when mated with a receptacle. Cordsets can be ordered to length as an overmolded cordset, or as an attachable device that can be assembled in the field.

Overmolded Cordsets are available in two configurations. When both cord ends are in a harsh environment, order with two industrial sealed connectors; for a able with one end in a harsh environment, and the other in a sealed or office area, order with one industrial connector and one commercial grade plug for a better fit into a standard patch panel. ENS1115M020 Male Industrial to Male Industrial RJ45, 2 meter, 10 Base-T, 4 conductor ENS1115M040 Male Industrial to Male Industrial RJ45, 5 meter, 10 Base-T, 4 conductor ENS1115M050 Male Industrial to Male Industrial RJ45, 5 meter, 10 Base-T, 4 conductor

ENS1135M020 Male Industrial to Male Standard RJ45, 2 meter, 10 Base-T, 4 conductor ENS1135M040 Male Industrial to Male Standard RJ45, 4 meter, 10 Base-T, 4 conductor ENS1135M050 Male Industrial to Male Standard RJ45, 5 meter, 10 Base-T, 4 conductor

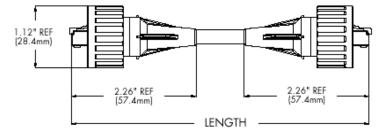
ENS2115M020 Male Industrial to Male Industrial RJ45, 2 meter, 568A, 8 conductor ENS2115M040 Male Industrial to Male Industrial RJ45, 4 meter, 568A, 8 conductor ENS2115M050 Male Industrial to Male Industrial RJ45, 5 meter, 568A, 8 conductor

ENS2135M020 Male Industrial to Male Standard RJ45, 2 meter, 568A, 8 conductor ENS2135M040 Male Industrial to Male Standard RJ45, 4 meter, 568A, 8 conductor ENS2135M050 Male Industrial to Male Standard RJ45, 5 meter, 568A, 8 conductor

Connector Specifications

Insert Material: Overmold Material: Coupling Nut Material: Acrylonitrile-Butadiene-Styrene (ABS) Polyurethane (Solid Core & Proplex) Acrylonitrile-Butadiene-Styrene (ABS)—standard version Acrylonitrile-Styrene-Acrylate (Luran[™] S778 T/TE)—UV stabilized version 12-inch-lbs.

Recommended Mating Torque:

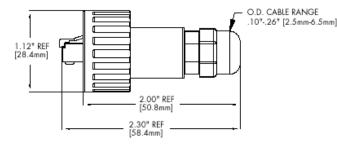


Field Attachable Connector



Assemble the connection in the field using a standard crimping tool, and still enjoy the same IP67 sealed connection as the overmolded cordset. One thousand foot bulk cable put-ups are available for both Solid Core PUR and Proplex cable.

ENSAM315......Field attachable RJ-45 connector for solid core C5 cable ENQAM315.....Field attachable RJ-45 connector for stranded core C5 cable



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