Connection Technology For Harsh Environments

Industrial Ethernet
IP 65 / IP 67 Rated

Industrial Ethernet Networks

Target: any RJ45 application that will be subject to harsh environments, especially the need for Sealing against Liquids & dusts.

CONEC Ruggedized RJ45's

RJ45 connector for EtherNet/IP – IP67 rated

Applications

- industrial machinery, CNC machines

- communication equipment

- food and chemical process equipment

- railway network systems

- oil exploration

- industrial process control

- diagnostic equipment

- printers, displays

- factory automation, robotics

- outdoor telecom systems

CONEC -Industrial Ethernet Connectors IP 65 / IP 67 Rated

CONEC IE Connectors

RJ45 connector for EtherNet/IP – IP67 rated

Product features

• Bayonet Coupling mechanism to IEC 61076-3-106 standards
Or…M28 Threaded coupling, in all brass construction

• secure fastening by audible „click" sound while locking connector halves

• RJ45 Cat. 5e connector in acc. EIA/TIA-568-B2

• protective cap for closing unconnected interfaces

• IP 67 protection when connected or closed

• three types of receptacle housings

• shielded and unshielded versions

• plastic and plastic metalized versions

• NEW All Metal zinc Diecast version

Coupling Types

Bayonet
1/3 turn 'click & lock'

Threaded…M28

All Metal versions shown:
Bayonet is DieCast Zinc
M28 is machined Brass

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CONEC IE Connectors
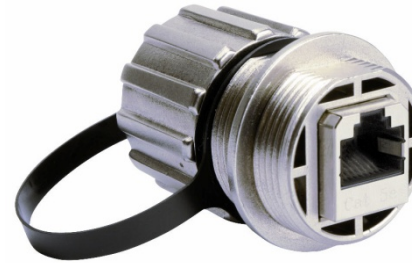
RJ45 connector for EtherNet/IP – IP67 rated

Receptacle housings Panel Mounted:
• for panel thicknesses up to 3,2 mm
• front or rear mounting possible
• Black plastic, metalized plastic, or New All Diecast
• avail. with protective cap
• epoxy sealed versions for additional
  device protection in unmated condition

Inline Coupler version –
connection with
standard
IP 20 patch cord cable
inside the device

PCB version –
solder connection
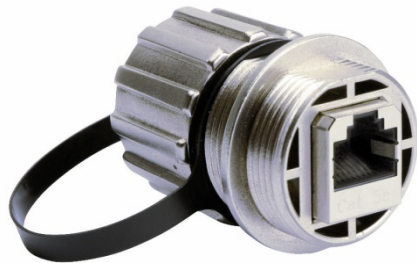inside the device

IDC version –
IDC connection
inside the device

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Panel Mounted Receptacle

- Creates a sealed connection, between the outside world, and the box with an RJ45 interface.

Inline Coupler version –
RJ45 both inside and outside.
Makes for easy feed-thru using standardized cord sets.

Panel Mounted Receptacle

- For discrete wires, IDC type

IDC version –
Simple ‚punch-down' wire termination

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Panel Mounted Receptacle

- Solder termination style
- Accepts 'wires', or 'pins'

PCB version –
Versatile means to solder to the RJ device

PLUG KITS

RJ45 connector for EtherNet/IP – IP67 rated

Plug kit

- RJ45 Cat. 5e plug connector in acc. EIA/TIA-568-B2
- for AWG 24 copper wire, stranded or solid cable
- plastic and metalized plastic version
- New version with zinc Diecast coupling ring & body

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Protective Caps

- Use when not mated

- Available in all corresponding receptacle materials

- …Plastic tether,   or ball-chain security

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Strain Relief Plug Kit

- Used Inside the box for high vibration applications.
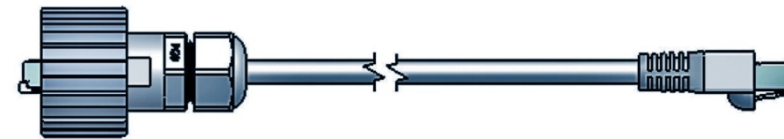
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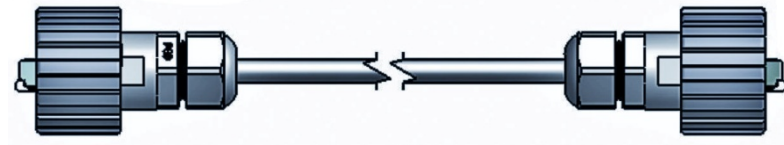
CONEC IE Connectors
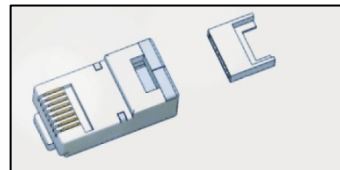
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Patch cords

• IP 67 to IP 67 patch cords

• IP 67 to IP 20 patch cords

• various standard lengths
• twisted pair cable Shielded or
• twisted pair cable Unshielded versions

• Cable Jackets for Indoor, or
• UV stabilized Cable Jackets for OUTDOOR

• PLUG Kits for field termination
  with anti-snag boots

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CONEC IE Connectors

RJ45 connector for EtherNet/IP – IP67 rated

Accessories

- RJ45 crimp tool with full stroke ratchet

- cable circuit Tester with remote terminal module

CONEC Industrial Ethernet Connectors
RJ45 connector for EtherNet/IP – IP67 rated

Information Sources:

• IP67 I/O catalog
• website

Documentation includes:

• drawings
• part numbers
• detailed technical data