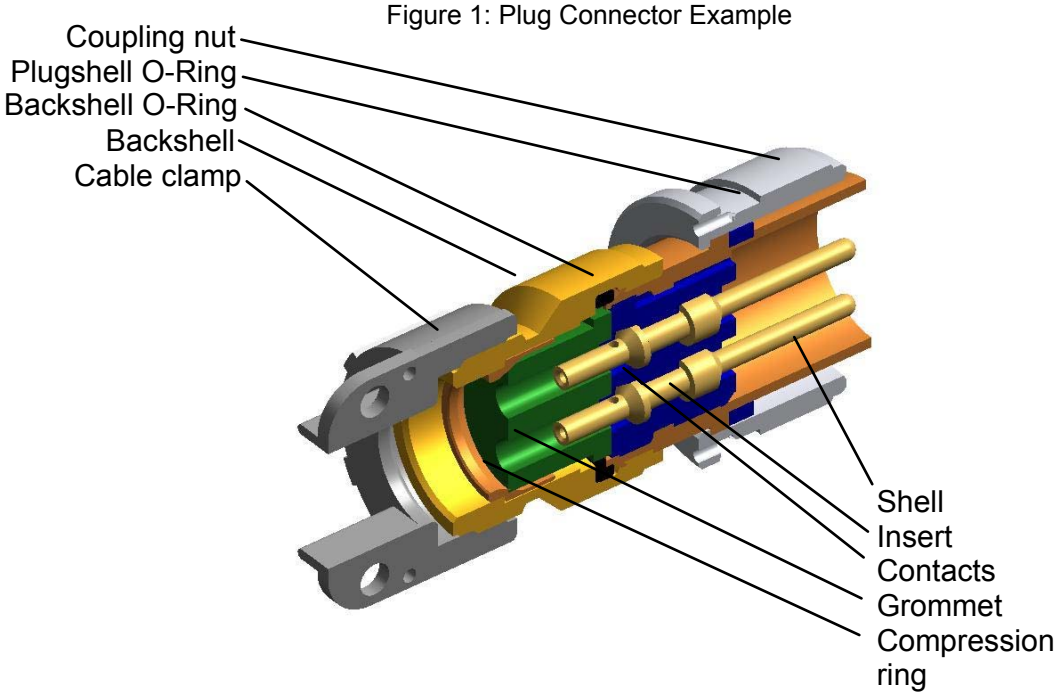
2) CONNECTOR DESCRIPTION

IT SERIES

Figure 1: Plug Connector Example



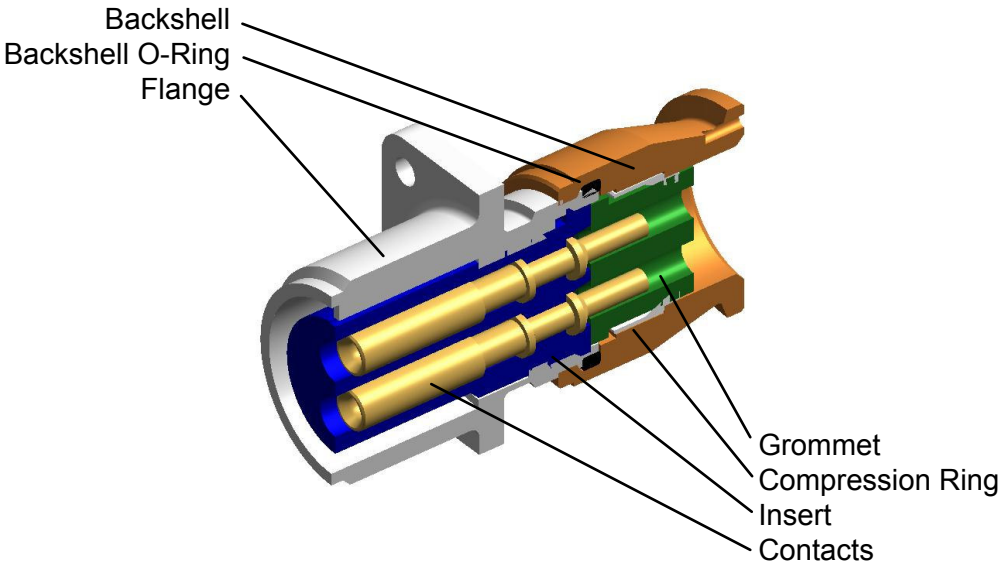
Plugshell O-ring:	The Plugshell O-Ring is designed to help to maintain water tightness after coupling. It is supplied installed on the shell (where required).
Shell:	A metallic container for the insulating insert.
Insert:	The insert is made of an insulating material and is used to divide contacts and insulate them from each other while holding them in place. It is supplied installed in the shell.
Contacts :	Available in crimp or solder versions, contacts transmit signals from the cable to another connector or to electrical equipment, fixtures, instruments and controls. Solder contacts are installed in the insert, crimp connectors are supplied separately.
Grommet :	When the backshell is tightened, the grommet is designed to provide an environmental seal to protect conductors from corrosion.

Commital S.p.A.

Compression Ring:	When the backshell is tightened into place, the compression ring compresses the grommet that seals the cables inside.
Coupling Nut:	When tightened, the coupling nut joins together the plug and receptacle to help assure a secure and reliable connection.
Backshell O-Ring:	Designed to help prevent exposure of the connector shell and backshell to water or other liquids with a watertight seal.
Backshell:	Constructed of metal alloy, the backshell is an accessory designed to protect the terminated wires while providing strain relief by accommodating cable clamps or other accessories. Sufficient backshell length is necessary to ensure ample working room.
Cable clamp:	The cable clamp compresses multiple or single cables to hold them in place securely, and to help seal the connector and backshell against water and other liquids.

Commital S.p.A.

Figure 2: Receptacle Connector Example

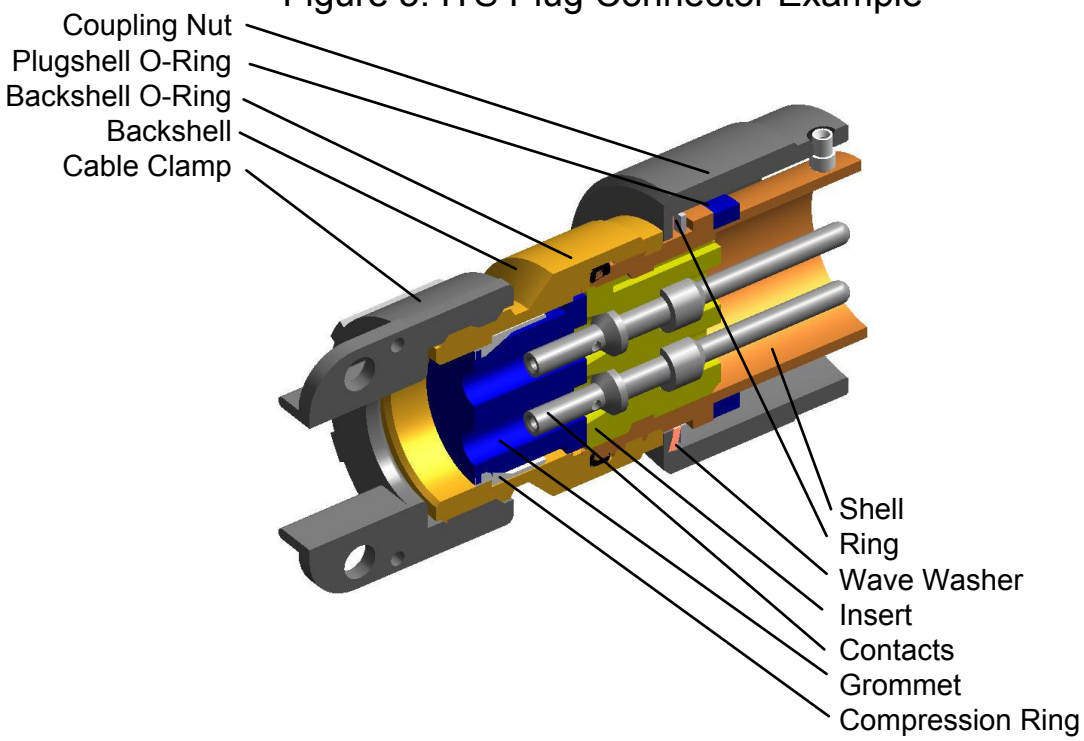


Flange:	The flange contains the insulating insert, holding it in place.
Insert:	Supplied mounted in the shell, the insert is constructed of an insulating material. It secures the contacts in place while insulating them from electrical interference from each other.
Contacts	Contacts transmit signals from the cable to contacts in another connector, or to electrical equipment, instruments, fixtures or controls. Contacts are available in a solder version (supplied mounted in the insert), or in a crimp version (supplied separately).
Grommet:	When the backshell is tightened, the grommet is designed to provide an environmental seal to protect conductors from corrosion.
Compression ring:	When the backshell is tightened into place, the compression ring compresses the grommet that seals the cables inside.
Backshell:	Constructed of metal alloy, the backsell is an accessory designed to protect the terminated wires while providing strain relief by accommodating cable clamps or other accessories.

Commital S.p.A.

ITB and ITS SERIES

Figure 3: ITS Plug Connector Example



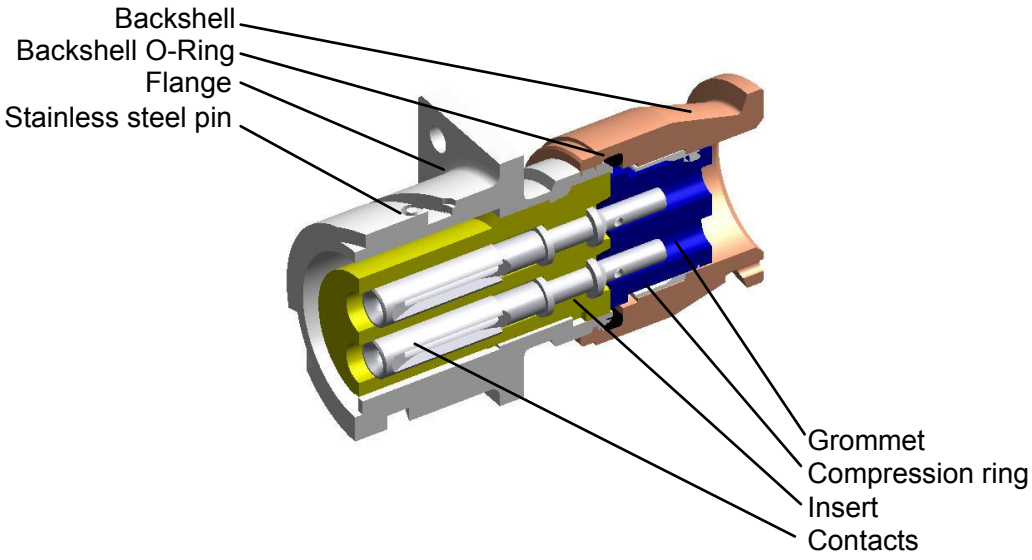
Plugshell O-Ring:	Designed to help assure a watertight fit when the coupling is completed. Supplied mounted on the shell.
Shell:	Made of metal alloy, the shell contains the insulating insert.
Insert:	Made of insulating material, the insert holds the contacts in place while it insulates each contact from possible electrical interference from the other contacts.
Contacts:	Signals are passed from the cable by the contacts to another connector or to electrical equipment, fixtures, instruments or controls. Solder versions are mounted in the insert. Crimp versions are supplied separately.
Grommet:	The grommet is designed to help provide a watertight seal, protecting the conducters from corrosion, after the backshell is tightened properly.

Commital S.p.A.

Compression Ring:	The compression ring squeezes the grommet to achieve a tight seal on the cable when the backshell is tightened.
Ring:	The ring serves as the support base for the wave washer.
Wave washer:	Compressing the front O-Ring to achieve a tight seal, the wave washer helps prevent casual plug and receptacle disconnection.
Coupling Nut:	Three stainless steel pins are designed to assure the coupling nut will reliably join the plug and receptacle.
Backshell O-Ring:	The backshell O-Ring is designed to create a watertight seal between the connector shell and the backshell.
Backshell:	A metal alloy container employed to protect the terminated cable and connector that will also accommodate cable clamps to provide cable strain relief.
Cable clamp:	The cable clamp compresses multiple or single cables to hold them in place securely and to provide a seal and strain relief.

Commital S.p.A.

Figure 4: Receptacle Connector Example



Flange:	The flange contains the insulating insert, holding it in place.
Insert:	Supplied mounted in the shell, the insert is constructed of an insulating material. It secures the contacts in place while insulating them from electrical interference from each other.
Contacts:	Contacts transmit signals from the cable to contacts in another connector, or to electrical equipment, instruments, fixtures or controls. Contacts are available in a solder version (supplied mounted in the insert), or in a crimp version (supplied separately).
Grommet:	When the backshell is tightened, the grommet is designed to provide a watertight seal to protect conductors from corrosion.
Compression ring:	Designed to hold the cables in place, the compression ring maintains a tight grip when the backshell is tightened.
Backshell:	Constructed of metal alloy, the backsell is a container designed to protect the terminated cable and connector while providing strain relief by accommodating cable clamps. In the ITB version the stainless steel pin is omitted.

Commital S.p.A.