

RJ11 Field

Rugged RJ11/RJ12 Connection System for Harsh Environment

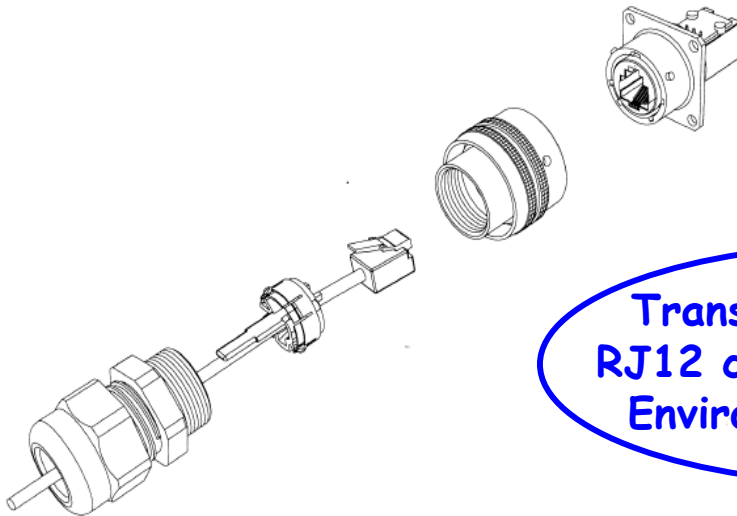
Description

RJ11Field allows you to use a standard phone RJ11 / RJ12 connection in harsh environments:

- Sealed against fluids and dusts (IP67)
- Shock, Vibration and Traction resistant
- No cabling operation in field and no tools required
- Mechanical Coding / Polarization (4 positions)

With the patented RJStop® system you can use a **standard RJ11 / RJ12 cordset** in a metallic plug which will protect it from shocks, dust and fluids.

No hazardous in-field cabling !



**Transform your RJ11 /
RJ12 cordset into a Harsh
Environment Connector !**

This metallic plug is connected into a receptacle, using a fast ¼ turn bayonet coupling mechanism (MIL-C-26482 type) providing both “audible and visual” coupling.

On the receptacle, one female RJ11 / RJ12 is soldered onto a PCB allowing for the following back terminations :

- another female RJ11 / RJ12
- solder termination



*Electronica 2004 :
Field series awarded
« Component Product of the Year »*

ROHS versions :
Nickel Plating : « N »
Black Coating : « B »

Applications

Outdoor phone lines for :

- Industrial applications
- Battlefield communication

DOC-000059-ANG-D - Sept. 2006

Amphenol®

Main Characteristics

Mechanical

- Bayonet coupling ("Audible & Visual" coupling signal)
- 4 mechanical Coding / Polarization possibilities by the user (insert rotation)
- RJ11 cordset retention in the plug : 100 N in the axis
- Mating cycles : 500 min

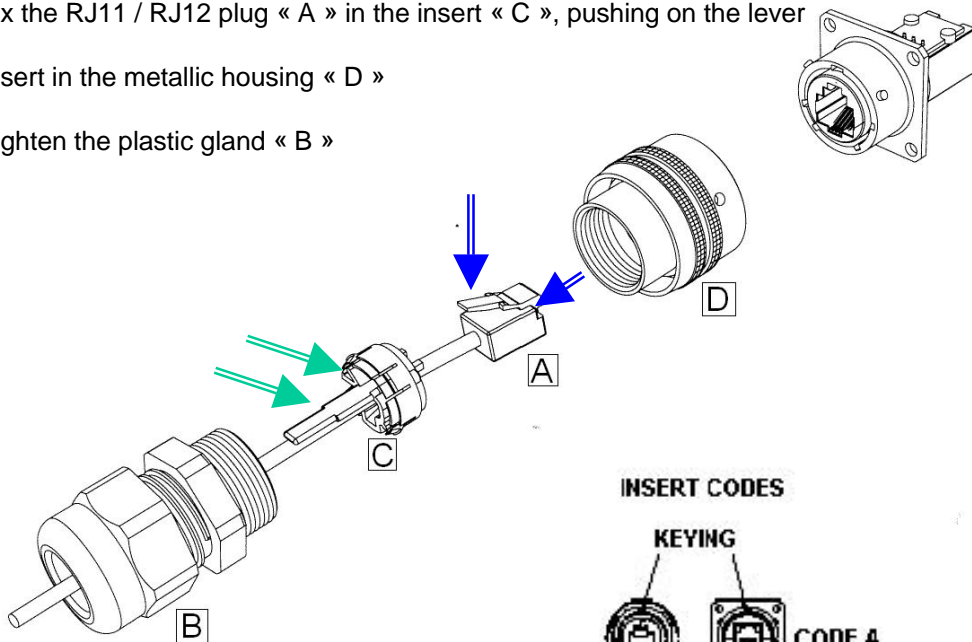
Environmental Protection

- Sealing : IP67
- Salt Spray : 48 h with Nickel plating
> 96 h with black coating
> 500 h with Oliv Drab Cadmium
- Fire Retardant / Low Smoke : UL94 V0 and NF F 16 101 & 16 102
- Vibrations : 10 – 500 Hz, 10 g, 3 axes : no discontinuity > 10 nano s.
- Shocks : IK06 : weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
- Humidity : 21 days, 43°C, 98% humidity
- Thermal Shock : 5 cycles at - 40°C / +100°C
- Temperature Range : - 40°C / +85°C

Easy and Safe : No field cabling tools required

Assembly instructions :

1. Pass the RJ11 / RJ12 plug « A » through the plastic gland « B »
2. Laterally slide the insert « C » on the cable
3. Fix the RJ11 / RJ12 plug « A » in the insert « C », pushing on the lever
4. Insert in the metallic housing « D »
5. Tighten the plastic gland « B »



4 coding positions :

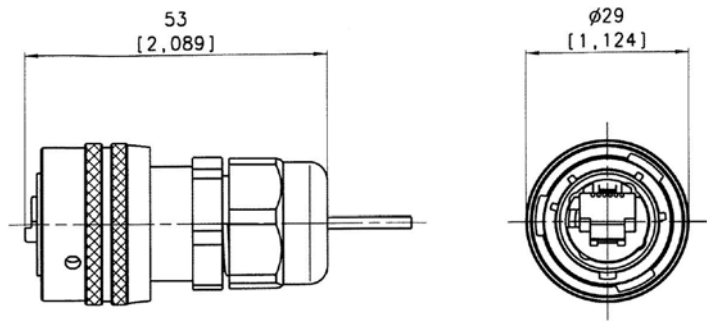
INSERT CODES

KEYING



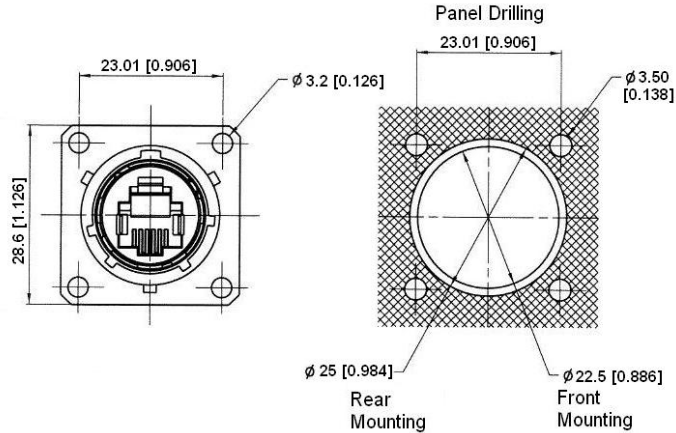
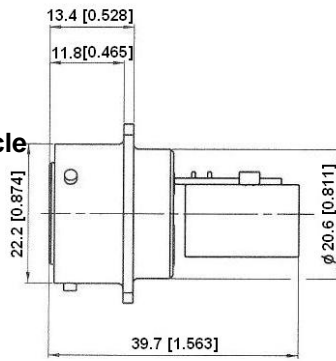
Plug :

Shell type 6
with Plastic Gland

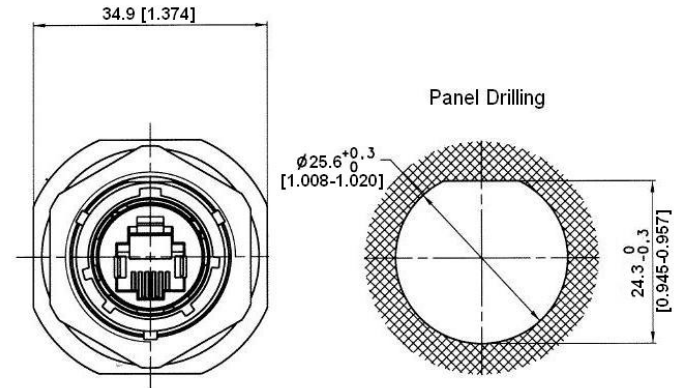
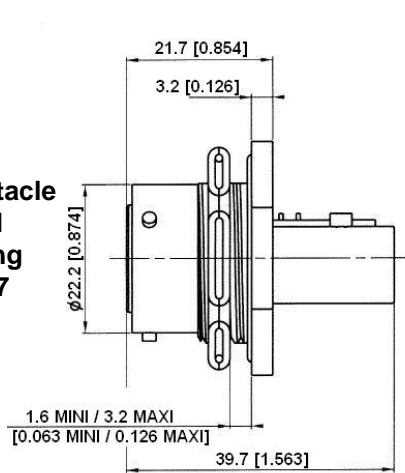


Receptacles :

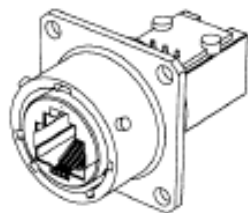
Square flange receptacle
4 mounting holes
Shell type 2



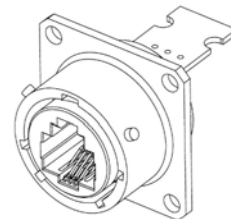
Jam nut receptacle
Hexagonal
Nut mounting
Shell type 7



Back Terminations :



Type 1 : Female RJ11 / RJ12



Type 2 : Solder
6 tined through holes to solder your cable

Part Number Code

HOW TO ORDER

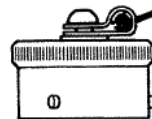
Series	RJ11F	2	2	B
RJ11Field				
Shell Type				
6 : Plug, Plastic Gland				
2 : Square Flange Receptacle				
7 : Jam Nut Receptacle				
Back Terminations (For Receptacles only)				
1 : Female RJ11				
2 : Solder (6 tined holes)				
Shell Finishes				
B : Black Coating				
N : Nickel				
G : Olive Drab Cadmium				

- Examples :
- Black Plug: **RJ11F 6 B**
 - Black square flange receptacle, Female RJ11 Back termination: **RJ11F 2 1 B**
 - Nickel Jam Nut Receptacle, solder termination : **RJ11F 7 2 N**

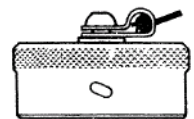
Accessories :

Metallic cap

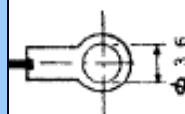
	RJ11FC	2	B
Connector Type			
6 : Plug			
2 : Square Flange Receptacle			
7 : Jam Nut Receptacle			
Finishes			
B : Black Coating			
N : Nickel			
G : Olive Drab Cadmium			



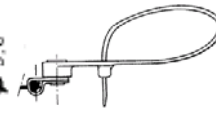
Plug cap



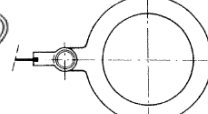
Receptacle cap



Square Flange type « 2 »

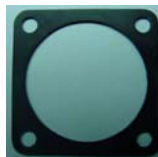


Plug Cap end Type « 6 »



Jam nut receptacle type « 7 »

Panel gasket for square flange « 2 » thickness : 0,6 mm – P/N : JE 14



Insert removal tool for receptacle and plug – P/N = RJ11F ODE

