

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







RJ Field

Ethernet Connection System for Harsh Environment – Industrial Ethernet

Description

RJField allows you to use an Ethernet Class D / Cat. 5e connection for 10 BaseT,100 BaseTX or 1000 BaseT networks 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 RJ45 cordset in a metallic plug which will protect it from shocks, dust and fluids.

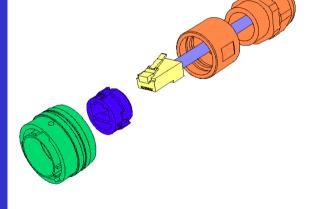
No hazardous in-field cabling and grounding!



Electronica 2004: RJField awarded « Component Product of the Year »

ROHS compliant:

« N »: Nickel plating « B » : Black coating



Transform your RJ45 cordset into a Harsh Environment Connector

This metallic plug is connected into a receptacle, using a fast 1/4 turn bayonet coupling mechanism (MIL-C-26482 type) providing both "audible and visual" coupling.

On the receptacle, one female RJ45 is soldered onto a PCB allowing for the following back terminations: OC-000041-ANG-J Sept 2006

- another female RJ45
- a RJ45 cordset
- Solder termination

The RJ45 cordset shielding is transmitted to the RJ45 receptacle through lateral grounding fingers.

For an outstanding EMI protection, the conductive plating versions (Ni, Cd) with metallized receptacle inserts, transmit the shielding to the connector shells and finally to the panel.

Applications

- Robotics
- Industrial Process Control
- CNC Machines
- Special Machines
- Motion Control
- Data Acquisition and Transmission in Harsh Environment
- Tele-maintenance



Amphenol ®

Main Characteristics

Data Transmission

•10 BaseT, 100 BaseTX and 1000 BaseT networks Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801

Mechanical

- Bayonet coupling ("Audible & Visual" coupling signal)
- 4 mechanical Coding / Polarization possibilities by the user (insert rotation)
- RJ45 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.

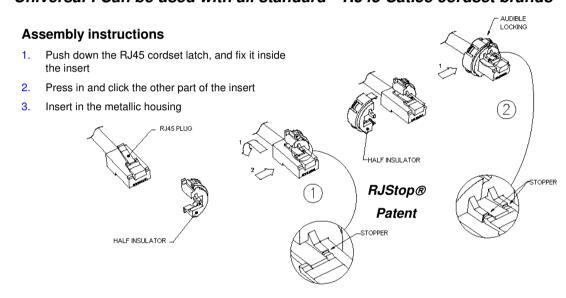
• Shocks: IK06: weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)

· Humidity: 21 days, 43°C, 98% humidity

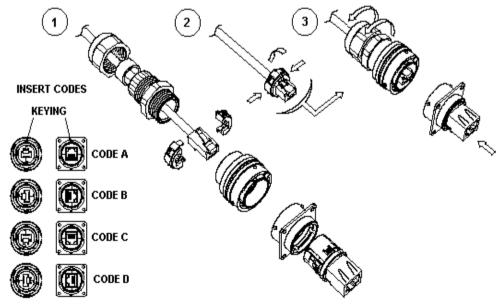
Thermal Shock: 5 cycles at - 40°C / +100°C

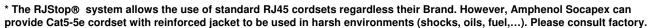
• Temperature Range : - 40°C / +85°C

Universal: Can be used with all standard * RJ45 Cat.5e cordset brands



Easy and Safe : No field cabling tools required



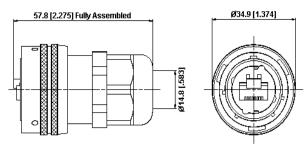






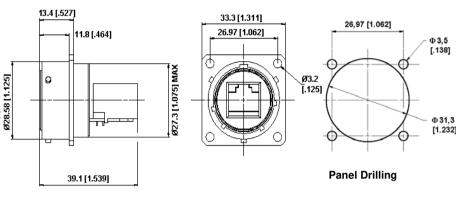


Shell type 6
With Plastic or Metal Gland

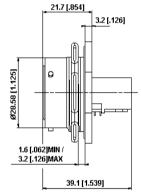


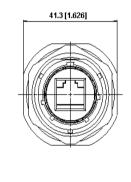
Receptacles:

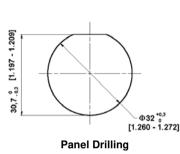
Square flange receptacle 4 mounting holes : Shell type 2 g



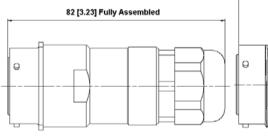
Jam nut receptacle
Hexagonal Nut mounting :
Shell type 7

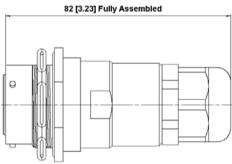






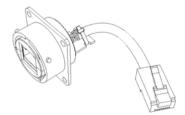
IP67 In line receptacles : Shell type 2PE and 7PE with Plastic or Metal Gland





Back Terminations:







Type 1: Female RJ45

Type 2: RJ45 Cordset

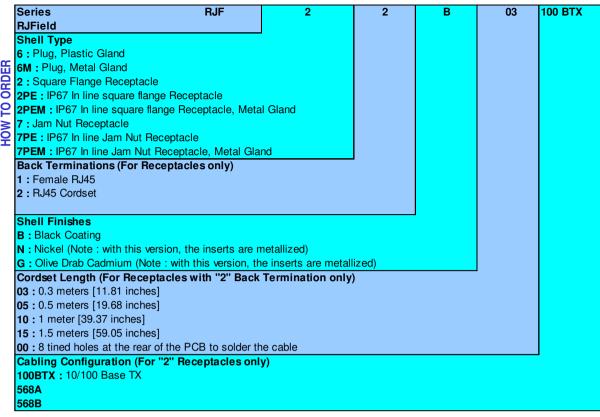
Type 2 - 00 : Solder - 8 tined holes

Notes: - Type 2 without RJ45 plug at the end of the cable are also available: consult factory

- Type 1 also available with 90° female RJ45



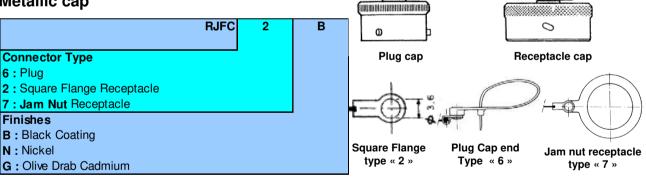
Part Number Code



Examples:

- Nickel Plug: RJF 6 N
- Black square flange receptacle, Female RJ45 Back termination: RJF 2 1 B
- Oliv Drab cadmium jam nut receptacle, 1.5m [59.05"] 100 BTX cordset termination: RJF 7 2 G 15 100BTX
- Black in line square flange receptacle, 30cm [11.81"] 100BTX cordset termination: RJF 2PE 2 B 03 100BTX
- Nickel Jam Nut Receptacle, solder termination: RJF 72 N 00

Accessories: Metallic cap



- Self closing cap (cap with a spring inside) :

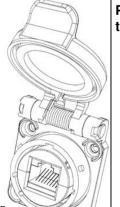
Compatible with all receptacle type « 2 » (Square flange recept). P/N: RJF SCC

(*)RJF Receptacle have to be ordered separatly.





Remark: you can connect on our receptacle a standard RJ45 cordset or a cordset equiped with our RJF 6xx plug



Panel gasket for square flange « 2 » thickness: 0,6 mm - P/N: JE 18



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





