RJF RB











PCB Receptacle

IDC Receptacle CAT 6

Applications

- Telecom equipments
- Video control
- Robotics
- Industrial process control
- CNC machines
- Special machines
- Motion control

RJFRB allows you to use an Ethernet Class D / Cat 5e and Class E / Cat 6 connection for 10 BaseT, 100 BaseTX or 1000 BaseT networks in harsh environments.

With the patented RJStop[®] system you can use a standard RJ45 cordset in a protective **composite** plug which will protect it from shocks, dust and fluids.

No hazardous on-field cabling and grounding!

Main characteristics

- Sealed against fluids and dust (IP68)
- Shock, vibration and traction resistant
- No cabling operation in field, no tools required
- Reverse bayonet coupling
- RJ45 cordset retention in the plug: 70 N in the axis
- Mating cycles: 500 min
- Compatible with cable diameter from 5,5 mm [0.216 in] to 7 mm [0.275 in]

Environmental protection

- Sealing: IP68
- Salt spray > 1000 h
- Fire retardant / Low smoke: UL94 V0 and NFF 16102, DIN 5510-2
- Thermal shock: 5 cycles at 40°C / +100°C
- Operating temperature: 40°C / +85°C

Data transmission

10 BaseT, 100 BaseTX and 1000 BaseT networks Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801 Cat6 per TIA/EIA 568B and ClassE per ISO/IEC 11801

Part number code

	RJF RB	7	1RA	
Shell type6: composite reverse bayonet plug, plastic gland7: composite jam nut receptacle				
Back terminations (for receptacles only) 1: female RJ45 1RA: right angle female RJ45 2: RJ45 Cordset 3U: IDC cat6 - unshielded 3F: IDC cat6 - partial shielding 3S: IDC cat6 - 100% shielded 5: straight PCB				
Cordset length (for receptacles with "2" back termination only) 03 100BTX: 0.3m [11.81 inches] 05 100BTX: 0.5m [19.68 inches] 10 100BTX: 1m [39.37 inches] 15 100BTX: 1.5m [59.05 inches]				
Remark: cabling configuration \rightarrow 100 BTX = 568B (Ethernet spectrum)	cification)			

Examples: - Plug: RJF RB 6

- Receptacle, female RJ45 Back termination: RJF RB 71

- Receptacle, right angle female RJ45 back termination: RJF RB 71RA

- Receptacle, 1,5m [59.05"] RJ45 cordset termination: RJF RB 72 15 100BTX

Amphenol