

RJFRB



Description

The RJFRB is a ruggedized composite connector with reverse bayonet coupling. You can use your standard RJ45 cordset, clipping it into the plug to obtain a reinforced solution. The receptacle is also easy to install, especially concerning IDC versions (Insulation Displacement Contact) possible in three different shielding options. This solution is perfectly suitable for an industrial environment for quick coupling solution.

Main features

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]

DATA TRANSMISSION

- 10 BaseT, 100 BaseTX and 1000 BaseT networks
- Cat.5e per TIA/EIA 568B and ClassD per ISO/IEC 11801
- Cat.6 per TIA/EIA 568B and ClassE per ISO/IEC 11801

ENVIRONMENTAL PROTECTION

- Sealing: IP68
- Salt spray: 1000 h
- Fire retardant / Low smoke: UL94 V0 and EN45545
- Operating temperature: - 40°C / +85°C

APPLICATIONS

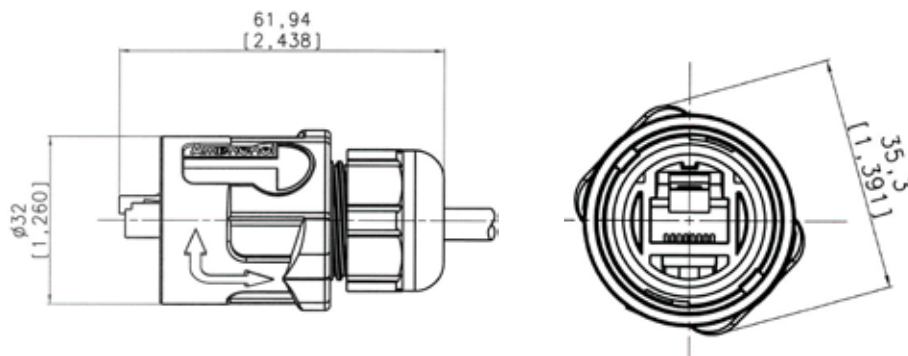
- Telecom equipments
- Video control
- Robotics
- Industrial process control
- CNC machines
- Special machines
- Motion control

How to order : Please refer to page 120

Overall dimension

Plug - Shell type 6

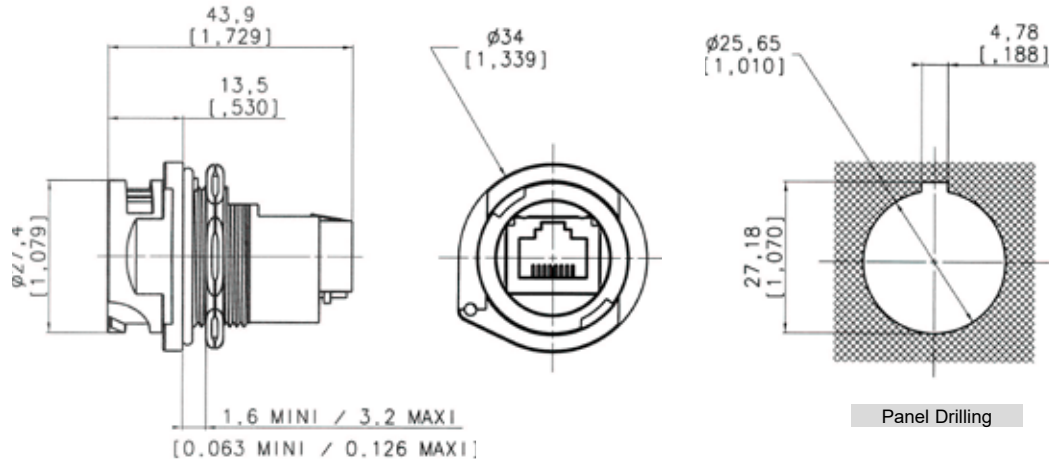
Part number type : **RJFRB 6**



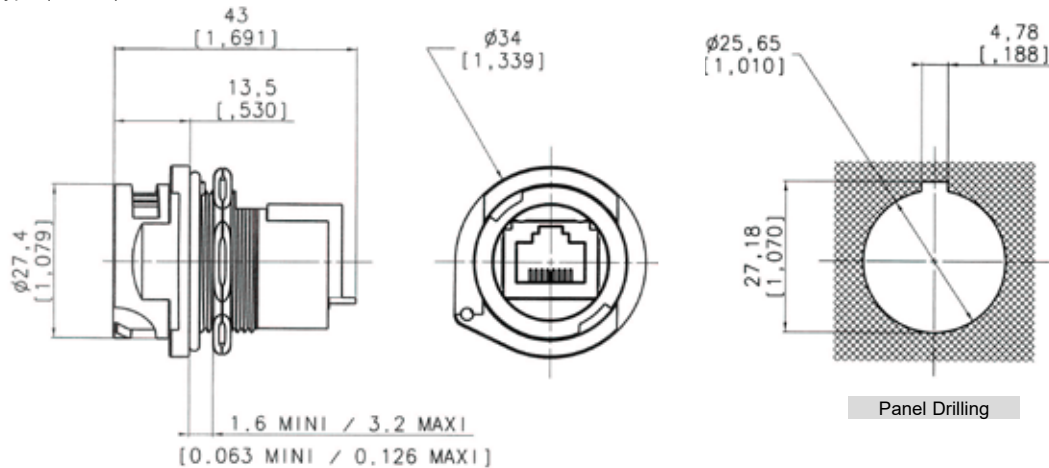
RJFRB

Overall dimension

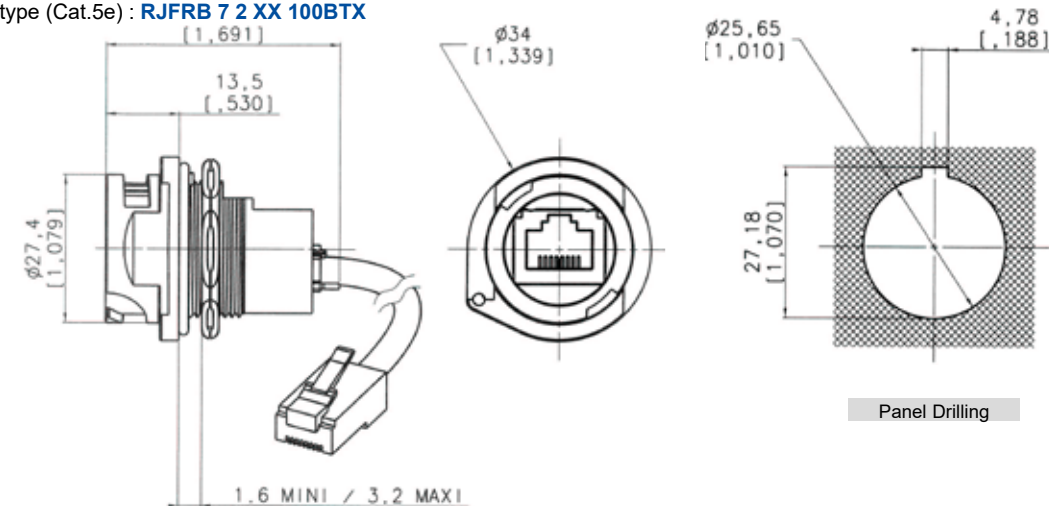
Receptacle - Shell type 1 - Front mounting - Female RJ45

Part number type (Cat.5e) : **RJFRB 7 1**

Receptacle - Shell type 1RA - Front mounting - Female RJ45

Part number type (Cat.5e) : **RJFRB 7 1RA**

Receptacle - Shell type 2 - Front mounting - RJ45 cordset

Part number type (Cat.5e) : **RJFRB 7 2 XX 100BTX**

Receptacle - Shell type 3 - Rear mounting - IDC CAT 6 termination - Unshielded, partially shielded or shielded

Technical drawing of a 4-pin RJ45 connector. The drawing includes a top view, a side view, and a front view. Dimensions are given in mm and inches.

Top View Dimensions:

- Overall width: 16.6 [0.65]
- Overall height: 20.8 [0.82]
- Pin spacing (center-to-center): 17.9 [0.7]
- Pin diameter: Ø26 [1.024]
- Pin pitch: 1.6 mini [0.063] to 3.2 maxi [0.126]
- Pin length: 21.9 [0.8622]
- Pin diameter: Ø27.4 [1.079]
- Pin diameter: Ø36 [1.417]
- Pin diameter: Ø29 [1.142]
- Pin diameter: Ø33 [1.299]
- Pin diameter: Ø40.5 [1.59]
- Pin diameter: Ø45 [1.772]
- Pin diameter: Ø50 [1.968]
- Pin diameter: Ø55 [2.165]
- Pin diameter: Ø60 [2.362]
- Pin diameter: Ø65 [2.559]
- Pin diameter: Ø70 [2.756]
- Pin diameter: Ø75 [2.953]
- Pin diameter: Ø80 [3.150]
- Pin diameter: Ø85 [3.347]
- Pin diameter: Ø90 [3.544]
- Pin diameter: Ø95 [3.741]
- Pin diameter: Ø100 [3.937]
- Pin diameter: Ø105 [4.134]
- Pin diameter: Ø110 [4.331]
- Pin diameter: Ø115 [4.528]
- Pin diameter: Ø120 [4.725]
- Pin diameter: Ø125 [4.922]
- Pin diameter: Ø130 [5.119]
- Pin diameter: Ø135 [5.315]
- Pin diameter: Ø140 [5.512]
- Pin diameter: Ø145 [5.709]
- Pin diameter: Ø150 [5.906]
- Pin diameter: Ø155 [6.103]
- Pin diameter: Ø160 [6.300]
- Pin diameter: Ø165 [6.497]
- Pin diameter: Ø170 [6.694]
- Pin diameter: Ø175 [6.891]
- Pin diameter: Ø180 [7.088]
- Pin diameter: Ø185 [7.285]
- Pin diameter: Ø190 [7.481]
- Pin diameter: Ø195 [7.678]
- Pin diameter: Ø200 [7.875]
- Pin diameter: Ø205 [8.072]
- Pin diameter: Ø210 [8.269]
- Pin diameter: Ø215 [8.466]
- Pin diameter: Ø220 [8.663]
- Pin diameter: Ø225 [8.860]
- Pin diameter: Ø230 [9.057]
- Pin diameter: Ø235 [9.254]
- Pin diameter: Ø240 [9.451]
- Pin diameter: Ø245 [9.648]
- Pin diameter: Ø250 [9.845]
- Pin diameter: Ø255 [10.042]
- Pin diameter: Ø260 [10.239]
- Pin diameter: Ø265 [10.436]
- Pin diameter: Ø270 [10.633]
- Pin diameter: Ø275 [10.830]
- Pin diameter: Ø280 [11.027]
- Pin diameter: Ø285 [11.224]
- Pin diameter: Ø290 [11.421]
- Pin diameter: Ø295 [11.618]
- Pin diameter: Ø300 [11.815]
- Pin diameter: Ø305 [12.012]
- Pin diameter: Ø310 [12.209]
- Pin diameter: Ø315 [12.406]
- Pin diameter: Ø320 [12.603]
- Pin diameter: Ø325 [12.800]
- Pin diameter: Ø330 [12.997]
- Pin diameter: Ø335 [13.194]
- Pin diameter: Ø340 [13.391]
- Pin diameter: Ø345 [13.588]
- Pin diameter: Ø350 [13.785]
- Pin diameter: Ø355 [13.982]
- Pin diameter: Ø360 [14.179]
- Pin diameter: Ø365 [14.376]
- Pin diameter: Ø370 [14.573]
- Pin diameter: Ø375 [14.770]
- Pin diameter: Ø380 [14.967]
- Pin diameter: Ø385 [15.164]
- Pin diameter: Ø390 [15.361]
- Pin diameter: Ø395 [15.558]
- Pin diameter: Ø400 [15.755]
- Pin diameter: Ø405 [15.952]
- Pin diameter: Ø410 [16.149]
- Pin diameter: Ø415 [16.346]
- Pin diameter: Ø420 [16.543]
- Pin diameter: Ø425 [16.740]
- Pin diameter: Ø430 [16.937]
- Pin diameter: Ø435 [17.134]
- Pin diameter: Ø440 [17.331]
- Pin diameter: Ø445 [17.528]
- Pin diameter: Ø450 [17.725]
- Pin diameter: Ø455 [17.922]
- Pin diameter: Ø460 [18.119]
- Pin diameter: Ø465 [18.316]
- Pin diameter: Ø470 [18.513]
- Pin diameter: Ø475 [18.710]
- Pin diameter: Ø480 [18.907]
- Pin diameter: Ø485 [19.104]
- Pin diameter: Ø490 [19.301]
- Pin diameter: Ø495 [19.498]
- Pin diameter: Ø500 [19.695]
- Pin diameter: Ø505 [19.892]
- Pin diameter: Ø510 [20.089]
- Pin diameter: Ø515 [20.286]
- Pin diameter: Ø520 [20.483]
- Pin diameter: Ø525 [20.680]
- Pin diameter: Ø530 [20.877]
- Pin diameter: Ø535 [21.074]
- Pin diameter: Ø540 [21.271]
- Pin diameter: Ø545 [21.468]
- Pin diameter: Ø550 [21.665]
- Pin diameter: Ø555 [21.862]
- Pin diameter: Ø560 [22.059]
- Pin diameter: Ø565 [22.256]
- Pin diameter: Ø570 [22.453]
- Pin diameter: Ø575 [22.650]
- Pin diameter: Ø580 [22.847]
- Pin diameter: Ø585 [23.044]
- Pin diameter: Ø590 [23.241]
- Pin diameter: Ø595 [23.438]
- Pin diameter: Ø600 [23.635]
- Pin diameter: Ø605 [23.832]
- Pin diameter: Ø610 [24.029]
- Pin diameter: Ø615 [24.226]
- Pin diameter: Ø620 [24.423]
- Pin diameter: Ø625 [24.620]
- Pin diameter: Ø630 [24.817]
- Pin diameter: Ø635 [25.014]
- Pin diameter: Ø640 [25.211]
- Pin diameter: Ø645 [25.408]
- Pin diameter: Ø650 [25.605]
- Pin diameter: Ø655 [25.802]
- Pin diameter: Ø660 [26.000]
- Pin diameter: Ø665 [26.197]
- Pin diameter: Ø670 [26.394]
- Pin diameter: Ø675 [26.591]
- Pin diameter: Ø680 [26.788]
- Pin diameter: Ø685 [26.985]
- Pin diameter: Ø690 [27.182]
- Pin diameter: Ø695 [27.379]
- Pin diameter: Ø700 [27.576]
- Pin diameter: Ø705 [27.773]
- Pin diameter: Ø710 [27.970]
- Pin diameter: Ø715 [28.167]
- Pin diameter: Ø720 [28.364]
- Pin diameter: Ø725 [28.561]
- Pin diameter: Ø730 [28.758]
- Pin diameter: Ø735 [28.955]
- Pin diameter: Ø740 [29.152]
- Pin diameter: Ø745 [29.349]
- Pin diameter: Ø750 [29.546]
- Pin diameter: Ø755 [29.743]
- Pin diameter: Ø760 [29.940]
- Pin diameter: Ø765 [30.137]
- Pin diameter: Ø770 [30.334]
- Pin diameter: Ø775 [30.531]
- Pin diameter: Ø780 [30.728]
- Pin diameter: Ø785 [30.925]
- Pin diameter: Ø790 [31.122]
- Pin diameter: Ø795 [31.319]
- Pin diameter: Ø800 [31.516]
- Pin diameter: Ø805 [31.713]
- Pin diameter: Ø810 [31.910]
- Pin diameter: Ø815 [32.107]
- Pin diameter: Ø820 [32.304]
- Pin diameter: Ø825 [32.501]
- Pin diameter: Ø830 [32.698]
- Pin diameter: Ø835 [32.895]
- Pin diameter: Ø840 [33.092]
- Pin diameter: Ø845 [33.289]
- Pin diameter: Ø850 [33.486]
- Pin diameter: Ø855 [33.683]
- Pin diameter: Ø860 [33.880]
- Pin diameter: Ø865 [34.077]
- Pin diameter: Ø870 [34.274]
- Pin diameter: Ø875 [34.471]
- Pin diameter: Ø880 [34.668]
- Pin diameter: Ø885 [34.865]
- Pin diameter: Ø890 [35.062]
- Pin diameter: Ø895 [35.259]
- Pin diameter: Ø900 [35.456]
- Pin diameter: Ø905 [35.653]
- Pin diameter: Ø910 [35.850]
- Pin diameter: Ø915 [36.047]
- Pin diameter: Ø920 [36.244]
- Pin diameter: Ø925 [36.441]
- Pin diameter: Ø930 [36.638]
- Pin diameter: Ø935 [36.835]
- Pin diameter: Ø940 [37.032]
- Pin diameter: Ø945 [37.229]
- Pin diameter: Ø950 [37.426]
- Pin diameter: Ø955 [37.623]
- Pin diameter: Ø960 [37.820]
- Pin diameter: Ø965 [38.017]
- Pin diameter: Ø970 [38.214]
- Pin diameter: Ø975 [38.411]
- Pin diameter: Ø980 [38.608]
- Pin diameter: Ø985 [38.805]
- Pin diameter: Ø990 [39.002]
- Pin diameter: Ø995 [39.199]
- Pin diameter: Ø1000 [39.396]
- Pin

Technical drawing of a PCB layout showing dimensions and drill hole specifications. The drawing includes a central rectangular area with various circular features (holes) and dimensions. A box labeled "percentage circuit imprime PCB drilling" is present. Dimensions are given in millimeters (mm) and inches (in). Drill hole specifications are given as diameter (mm) and diameter (in) with tolerance (mm) and tolerance (in).

Dimensions (mm) and (inches):

- 8.13 [0.32]
- 7.75 [0.305]
- 8.13 [0.32]
- 7.75 [0.305]
- 8 X Ø 0.89 ^{0.05}/_{0.019} [0.035 ^{0.05}/_{0.019}]
- 2 X Ø 2.41 ^{0.05}/_{0.019} [0.0949 ^{0.05}/_{0.019}]
- 3.62 [0.142]
- 2.54 [0.1]
- 13.42 [0.53]
- 2 X Ø 1.57 ^{0.05}/_{0.019} [0.0618 ^{0.05}/_{0.019}]
- 2 X Ø 3.25 ^{0.05}/_{0.019} [0.128 ^{0.05}/_{0.019}]
- 0.18 [0.007]
- 13.42 [0.53]
- 0.67 [0.03]
- 0.51 [0.02]
- 1.52 [0.06]
- 2.54 [0.1]
- 3.56 [0.14]
- 6.35 [0.25]
- 6.35 [0.25]
- 0.51 [0.02]
- 1.52 [0.06]
- 2.54 [0.1]
- 3.56 [0.14]

percentage circuit imprime
PCB drilling