

# Datasheet for part number FRCIR06F-18-10S-F80-T108

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|-----------------------------------------------------------------------------------------------|
| Our Catalog Part Number: FRCIR06F-18-10S-F80-T108                                             |
| Our Global Manufacturing Part Number: 000976800                                               |
| Brand: VEAM Product Category: Circular Product Line: Veam CIR, VBN, Other Series: CIR / FRCIR |

| Product Datasheet                                  |                                                                                                                                                                                                          |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERIES                                             | Connector with Bayonet Coupling                                                                                                                                                                          |
| Shell Style                                        | Straight Plug Connector                                                                                                                                                                                  |
| Environmental Class                                | Backshell with A style clamp and bushing but includes wire sealing grommet and compression ring.                                                                                                         |
| Shell Size                                         | 18                                                                                                                                                                                                       |
| Contact Arrangement                                | 18-10                                                                                                                                                                                                    |
| Total Number of contacts                           | 4 contacts                                                                                                                                                                                               |
| Number of Contacts Size 12                         | 4 contacts size 12                                                                                                                                                                                       |
| Gender                                             | Socket                                                                                                                                                                                                   |
| Contact Type                                       | Crimp for AWG wire (used in F80 insert)                                                                                                                                                                  |
| Contact Plating                                    | Gold                                                                                                                                                                                                     |
| Contact Material                                   | Copper alloy                                                                                                                                                                                             |
| Shell Material                                     | Aluminium alloy                                                                                                                                                                                          |
| Shell Plating                                      | Zinc/Cobalt, 200h salt spray resistance, conductive, RoHS and REACH compliant                                                                                                                            |
| Insulator Material                                 | Flame Retardant rubber                                                                                                                                                                                   |
| Wire Size Cross Section for Contacts Size 12       | 3 mm <sup>2</sup> or AWG 12                                                                                                                                                                              |
| Contact Rating for Contacts Size 12                | Maximum Current = 41 A<br>Rated and Test Current = 23 A<br>Potential Drop max. 63 mV                                                                                                                     |
| Shock Resistance                                   | Waterproof to 10 meters (33 ft)<br>12 h (14.7 PSI)                                                                                                                                                       |
| Coupling                                           | 2000 couplings minimum                                                                                                                                                                                   |
| Service Rating Letter                              | A                                                                                                                                                                                                        |
| Operating Voltage DC                               | 700 V                                                                                                                                                                                                    |
| Operating Voltage AC                               | 500 V                                                                                                                                                                                                    |
| Dielectric strength - Minimum Flashover AC RMS     | 2800 V                                                                                                                                                                                                   |
| Dielectric strength - Test Voltage AC RMS (Hi Pot) | 2000 V                                                                                                                                                                                                   |
| Note                                               | Voltages in excess of 30 V ac or 42.5 V dc are potentially hazardous and care should be taken to ensure that such voltages can't be transmitted in any way to exposed metal parts of the connector body. |
| General                                            | Veam CIR series Connectors are produced in accordance with NATO Standard VG95234, which is based on MIL-C-5015 for physical size, layout and environment requirements.                                   |