The Amphenol RJ Field series allows the use of an Ethernet Class D/CAT5e and Class E/CAT6 connection for Ethernet over twisted-pair networks in harsh environments. The RJStop® connection system protects from shock, dust and fluid. No hazardous on-field cabling and grounding required!

- Connections for 10Base-T, 100Base-TX, or 1000Base-T networks
- No tools required
- Mechanical coding/polarization

**APPLICATIONS**
- Robotics
- Military data hubs
- Special machines
- Welding machines
- Communications
- CNC machines
- Process & motion control
- Diagnostics

**FEATURES**
- CAT5e & CAT6 Cable
- USB-A 2.0, USB-B 2.0, USB-A 3.0
- Mating systems – bayonet, triple-lead, latch, push-pull

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>RJF RB</th>
<th>RJF 544</th>
<th>RJF-EZ</th>
<th>RJF</th>
<th>RJFTV</th>
<th>USBFTV (USB-A)</th>
<th>USB8FTV (USB-B)</th>
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<td>Push-Pull</td>
<td>Lever</td>
<td>Bayonet</td>
<td>Tri-Start Thread</td>
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<td>CAT5e</td>
<td>CAT5e &amp; CAT6</td>
<td>CAT5e &amp; CAT6</td>
<td>USB-A 2.0 &amp; 3.0</td>
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<td>No</td>
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<td>500 min.</td>
<td>500 min.</td>
<td>up to 1500</td>
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</tr>
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</table>
RJF RB FEATURES

MAIN CHARACTERISTICS

- Composite material
- Sealed against fluids and dust (IP68)
- Shock, vibration, and traction resistant
- No-cabling operation in-field and no tools required
- Reverse bayonet coupling
- RJ45 cordset retention in the plug: 70 N in the axis
- Mating cycles: 500 min.
- IDC receptacle
- PCB receptacle
- RoHS compliant

ENVIRONMENTAL PROTECTION

- Sealing: IP68
- Salt Spay > 1000-hour
- Fire retardant/low smoke: UL94 VO and NFF 16102, DIN 5510-2
- Thermal shock: 5 cycles at -40°F to +212°F (-40°C to +100°C)
- Operating temperature: -40°F to +185°F (-40°C to +85°C)

DATA TRANSMISSION

- 10 Base-T, 100 Base-TX and 1000 Base-T networks
- CAT5e per TIA/EIA 568B and Class D per ISO/IEC 11801
- CAT6 per TIA/EIA 568B and Class E per ISO/IEC 11801

ASSEMBLY INSTRUCTIONS

STEP 1: Select for cordset length

- 03 = 11.81 (0.30M)
- 05 = 19.68 (0.50M)
- 10 = 39.37 (1.00M)
- 15 = 59.05 (1.50M)

STEP 2: PCB available, please contact us.

STEP 3:

STEP 4:

STEP 5:

STEP 6:

STEP 7:

STEP 8:

All dimensions in inches (millimeters in parenthesis)
PLUG

RJF RB 6
Plug with Plastic Gland

RECEPTACLES

RJF RB 71
RJ45 Female Receptacle.

RJF RB 71 RA
RJ45 Right Angle Female Receptacle.

RJF RB 72XX 100BTX
RJ45 Cordset

COMMON RECEPTACLE DIMENSIONS

ACCESSORIES

IP68 DUSTCAPS

RJF RB C7
Cap for receptacles RJFRB71 / 71RA / 72xxx
Cord length 2.76” (70.0)

RJF RB C75
Cap for receptacles RJFRB73x
Cord length 3.93” (100.0)

All dimensions in inches (millimeters in parenthesis)
RJF 544 SERIES

MAIN CHARACTERISTICS
- Composite material
- Compliant with IEC 60603-7 variant 12
- Shock, vibration and traction-resistant
- No-cabling operation in-field and no tools required
- Sealed against fluids and dust (IP68)
- Quick push-pull coupling
- RJ45 cordset retention in the plug: 100 N in the axis
- Mating cycles: 500 min.
- Improved EMI protection
- Compatible with cable diameter from 0.236 in. (6 mm) to 0.512 in. (13.0 mm)

ENVIROMENTAL PROTECTION
- Sealing: IP68
- Salt Spray > 1000-hour
- Fire retardant/low smoke: UL94 VO and NFF 16102, DIN 5510-2
- Vibrations: 10 – 500 Hz, 10 g, 3 axes: no discontinuity > 10 nano seconds
- Thermal shock: 5 cycles at -40°F to +212°F (-40°C to +100°C)
- Operating temperature: -40°F to +185°F (-40°C to +85°C)

DATA TRANSMISSION
- 10 Base-T, 100 Base-TX, and 1000 Base-T networks
- CAT5e per TIA/EIA 568B and Class D per ISO/IEC 11801
- CAT6 per TIA/EIA 568B and Class E per ISO 11801
RJF EZ FEATURES

MAIN CHARACTERISTICS
- Composite material
- Compliant with IEC 60603-7 variant 13
- Sealed against fluids and dust (IP68)
- Shock, vibration and traction-resistant
- No-cabling operation in-field and no tools required
- Quick lever coupling
- RJ45 cordset retention in the plug: 70 N in the axis
- Mating cycles: 500 min.
- Compatible with cable diameter 0.216 in. (5.5 mm) to 0.275 in. (7.0 mm)

ENVIRONMENTAL PROTECTION
- Sealing: IP68
- Salt Spray > 1000-hour
- Fire retardant/low smoke: UL94 VO and NFF 16102, DIN 5510-2
- Thermal shock: 5 cycles at -40°F to +212°F (-40°C to +100°C)
- Operating temperature: -40°F to +185°F (-40°C to +85°C)

DATA TRANSMISSION
- 10 Base-T, 100 Base-TX, and 1000 Base-T networks
- CAT5e per TIA/EIA 568B and Class D per ISO/IEC 11801

---

## PLUG

<table>
<thead>
<tr>
<th>PLUG</th>
<th>RECEPTACLE</th>
<th>ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJFEZ6</td>
<td>RJFEZ21</td>
<td>RJFEZB, RJFEZJE</td>
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<tr>
<td>RJFEZ21</td>
<td>RJFEZ22, RJFEZB, RJFEZJE</td>
<td></td>
</tr>
</tbody>
</table>

**Select for Cordset Length 03 = 11.81 (0.30M) 05 = 19.68 (0.50M) 10 = 39.37 (1.00M) 15 = 59.05 (1.50M)**

**Bold = Stocked items**

### RECEPTACLE

**ASSEMBLY INSTRUCTIONS**

RJStop® Patent

All dimensions in inches (millimeters in parenthesis)
RJF FEATURES

MAIN CHARACTERISTICS
- Compliant with IEC 60603-7 variant 11
- Bayonet coupling (“audible & visual” coupling signal)
- Robust metallic shells based on MIL-DTL-26482H
- RJ45 cordset retention in the plug: 100 N in the axis
- Mating cycles: 500 min.
- Sealed against fluids and dust (IP68)
- Shock, vibration and traction-resistant
- No cabling operation in-field and no tools required
- Mechanical coding / polarization (4 positions)
- Compatible with cable diameters from 0.236 in. (6 mm) to 0.512 in. (13.0 mm)

ENVIRONMENTAL PROTECTION
- Sealing: IP68
- Salt spray: 48-hour with nickel-plating > 96-hour with black coating > 500-hour with olive 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 15.75” (40 cm) onto connectors (mated pair)
- Humidity: 21 days, 109.4°F (43°C), 98% humidity
- Thermal shock: 5 cycles at -40°F to +212°F (-40°C to +100°C)
- Operating temperature: -40°F to +185°F (-40°C to +85°C)

DATA TRANSMISSION
10 Base-T, 100 Base-TX, and 1000 Base-T networks
CAT5e per TIA/EIA 568B and Class D per ISO/IEC 11801
CAT6 per TIA/EIA 568B and Class E per ISO 11801

ASSEMBLY INSTRUCTIONS

**STEP 1:** Push down the RJ45 cordset latch and fix it inside the insert

**STEP 2:** Press in and click the other part of the insert

**STEP 3:** Insert in the metallic housing

Universal: Can be used with all standard RJ45 CAT5e cordset brands

All dimensions in inches (millimeters in parenthesis)
### RJF TRANSVERSALLY-SEALED

<table>
<thead>
<tr>
<th>PLATING</th>
<th>RECEPTACLE STANDARD SEALED BOX MOUNT</th>
<th>CORDSET SEALED BOX MOUNT</th>
<th>RIGHT ANGLE SEALED FEMALE RJ45</th>
<th>JAM NUT RECEPTACLE STANDARD SEALED JAM NUT</th>
<th>CORDSET SEALED JAM NUT</th>
<th>RIGHT ANGLE SEALED FEMALE RJ45</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black-Anodized</td>
<td>RJF2S-1B††</td>
<td>RJF2S-2B-100BTX††</td>
<td>RJF2S-1RAB††</td>
<td>RJF7S-1B††</td>
<td>RJF7S-2B-100BTX††</td>
<td>RJF7S-1RAB††</td>
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<td></td>
<td>RJF2S1N††</td>
<td>RJF2S2N-100BTX††</td>
<td>RJF2S1RAN††</td>
<td>RJF7S1N††</td>
<td>RJF7S2N-100BTX††</td>
<td>RJF7S1RAN††</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>RJF2S-1G††</td>
<td>RJF2S2G-100BTX††</td>
<td>RJF2S1RAG††</td>
<td>RJF7S1G††</td>
<td>RJF7S2G-100BTX††</td>
<td>RJF7S1RAG††</td>
</tr>
</tbody>
</table>

* Coding A, B, C, D ** Select for Cordset Length 03 = 11.81 (0.30M) 05 = 19.68 (0.50M) 10 = 39.37 (1.00M) 15 = 59.05 (1.50M)
†† Use prefix RJF6 for CAT6 (receptacles only)

### RJF HERMETICALLY SEALED

<table>
<thead>
<tr>
<th>PLATING</th>
<th>RECEPTACLE STANDARD HERMETIC BOX MOUNT</th>
<th>CORDSET HERMETIC BOX MOUNT</th>
<th>RIGHT ANGLE HERMETIC FEMALE RJ45</th>
<th>JAM NUT RECEPTACLE STANDARD HERMETIC JAM NUT</th>
<th>CORDSET HERMETIC JAM NUT</th>
<th>RIGHT ANGLE HERMETIC FEMALE RJ45</th>
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<tbody>
<tr>
<td>Black-Anodized</td>
<td>RJF2H-1B††</td>
<td>RJF2H-2B-100BTX††</td>
<td>RJF2H-1RAB††</td>
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<td>RJF7H-2B-100BTX††</td>
<td>RJF7H-1RAB††</td>
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<td>RJF2H1N††</td>
<td>RJF2H2N-100BTX††</td>
<td>RJF2H1RAN††</td>
<td>RJF7H1N††</td>
<td>RJF7H2N-100BTX††</td>
<td>RJF7H1RAN††</td>
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<tr>
<td>Olive Drab Cadmium</td>
<td>RJF2H-1G††</td>
<td>RJF2H2G-100BTX††</td>
<td>RJF2H1RAG††</td>
<td>RJF7H1G††</td>
<td>RJF7H2G-100BTX††</td>
<td>RJF7H1RAG††</td>
</tr>
</tbody>
</table>

* Coding A, B, C, D ** Select for Cordset Length 03 = 11.81 (0.30M) 05 = 19.68 (0.50M) 10 = 39.37 (1.00M) 15 = 59.05 (1.50M)
†† Use prefix RJF6 for CAT6 (receptacles only)

### ASSEMBLY INSTRUCTIONS

Easy and Safe: No field cabling tools required

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For assistance in Europe and China, please see the back cover for a complete listing of our branch offices and contact numbers.

Specifications subject to change.
RJ FIELD SERIES

RJF DIMENSIONS

PLUG

RJF 6
Plug with plastic or metal gland

RECEPTACLES

RJF6 2
RJF 2
Square flange receptacle, 4 mounting holes

RJF6 7
RJF 7
Jam nut receptacle, Hexagonal-nut mounting

RJF6 2PE/2PEM
RJF 2PE/2PEM
RJF6 72PE/7PEM
RJF 72PE/7PEM
IP68 inline receptacles with plastic or metal gland

PCB TAILS RECEPTACLES

PCB LAYOUT

All dimensions in inches (millimeters in parenthesis)
This self-closing cap automatically protects the RJ Field square flange receptacles (MIL-C-26482-type), protecting your system from dust and water projections. The same cap can be used to protect USB and IEEE1394 receptacles. A spring automatically closes the upper part of the cap when either the RJ Field plug, RJ45 cordset, USB or IEEE1394 cordset, or USB key are removed from the receptacle.

### CAT5e & CAT6 CABLE

General construction: A four-pair, 24 AWG, 100 Ohm SFTP round patch cable, designed to the ISO / IEC 11801 Category 5e requirements (CAT5e on 76m). The cable contains four twisted pairs, cabled, double-shielded with Kevlar reinforcement strands, jacketed in black UV-resistant polyurethane HFFR. Designed for fixed or portable applications in harsh environments.

**HFFR: HALOGEN-FREE FLAME-RETARDANT**

Jetpack Compound Specification:

- Halogen-free flame-retardant polyether-based polyurethane, Glossy finish,
- Excellent hydrolysis resistance. High microbial resistance. UV-resistant. High flexibility.

### PHYSICAL CHARACTERISTICS

#### CAT5e

- **Conductors**: 24 AWG (0.25 mm²) Tinned copper, 7x0.2 mm
- **Insulation**: Color-coded 568-B, Linear low-density polyethylene, Nom. Dia. 0.039” (1 mm) nickel
- **Assembly**: Pairs cabled with Kevlar-strength members and separation tape wrapped
- **Shields**: Inner: Aluminum mylar 100% coverage Outer: Tinned copper braid 80% coverage
- **Jacket**: Black, special PUR compound
- **Weight**: 40 lbs / mft (59 kg/km)
- **Outside Dia.**: (7.1 mm) nom.
- **Min. Bend Radius (During installation)**: 67.5mm (5 x O.D.)
- **Min. Bend Radius (During operation)**: 37.5mm (5 x O.D.)
- **Min. Flexes to Failure**:
  - 2.727 ft (0.9 m) min.
- **Temperature**:
  - -40°F to +185°F (-40°C to +85°C)

#### CAT6

- **Conductors**: 26 AWG (0.14 mm²) tinned copper
- **Insulation**: Polyethylene Nom. Dia. 0.039” (1 mm)
- **Assembly**: Pairs cabled with Kevlar-strength members and separation tape wrapped
- **Shields**: Inner: Aluminum mylar 100% coverage Outer: Tinned copper braid 80% coverage
- **Jacket**: Black, special PUR compound
- **Weight**: 36.9 lbs / mft (55 kg/km)
- **Outside Dia.**: 0.2273 ft (0.7 mm) nom.
- **Min. Bend Radius (During installation)**: 72mm (10 x O.D.)
- **Min. Bend Radius (During operation)**: 36mm (5 x O.D.)
- **Min. Flexes to Failure**:
  - Passes IEC 61156-6 requirements
- **Temperature**:
  - -40°F to +185°F (-40°C to +85°C)

### ELECTRICAL CHARACTERISTICS

#### CAT5e

- **DC Resistance**: 96 Ohms/KM @ 20°C
- **Impedance**: 100 ± 15 Ohms 1-100 MHz
- **Attenuation**:
  - 722 KHz: 2.70 db/100m nom.
  - 1 MHz: 1.35 db/100m nom.
  - 10 MHz: 9.90 db/100m nom.
  - 100 MHz: 12.36 db/100m nom.
- **Capacitance**: 48pF/m nom. @ 1KHz
- **LCL**: 34 dB min. @ 64 KHz
- **Capacitance Unbalance**: 3.4 pF/m max. @ 1kHz (wire to ground)
- **Insulation Resistance**: 150 M Ohm min.
- **Voltage Rating**: 230 VMS
- **Dielectric Strength**: 250V/1min - 700 V/mm.
- **Propagation Delay**: (20 MHz) 2.5 ns/100m max. @ 100 MHz
- **Delay Skew**: 30 ns/100m max. @ 100 MHz
- **Resistance Unbalance**: 3% max. @ 20°
- **Structural Return Loss**: 100 MHz 23 db/100m min. @ 1-20 MHz
- **Spark Test**: 3 KV (tested during production)
- **Velocity of propagation**: 67% nom.

#### CAT6

- **DC Resistance**: 290 Ohms/Km
- **Impedance**: 100±5 Ohm
- **Attenuation**:
  - 31.25MHz: 13.5 db/100m nom.
  - 62.5MHz: 25.6 db/100m nom.
  - 125MHz: 37.7 db/100m nom.
  - 250MHz: 45.5 db/100m nom.
  - 500MHz: 53.5 db/100m nom.
  - 600MHz: 56.8 db/100m nom.
- **Capacitance**: 30 pF/m nom. @ 1KHz
- **Capacitance Unbalance**: 1600 pF/km max. @ 1kHz (wire to ground)
- **Insulation Resistance**: 5 GOhm/km
- **Voltage Rating**: 230 V
- **Dielectric Strength**: 250V/1min - 700 V/mm.
- **Propagation Delay**: 4.6 ns/100m
- **Delay Skew**: 45 ns/100m
- **Resistance Unbalance**: 2%
- **Structural Return Loss**: 15.0 dB
- **Velocity of propagation**: 72% nom.

### REEL OF CABLE (WITHOUT PLUGS OR ENDS)

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<tr>
<th>LENGTH (M/FT)</th>
<th>PART NUMBER</th>
<th>LENGTH (M/FT)</th>
<th>PART NUMBER</th>
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<td>100 m / 328 ft</td>
<td>191-031179-00</td>
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<tr>
<td>300 m / 984 ft</td>
<td>190-038045-01</td>
<td>300 m / 984 ft</td>
<td>191-031179-01</td>
</tr>
</tbody>
</table>

For assistance in Europe and China, please see the back cover for a complete listing of our branch offices and contact numbers.

Specifications subject to change.

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**Stocked Items**

- RJ45: RJF21BSCC
- USB-A: USBF21BSCC
- USB-B: USBBF21BSCC
- IEE1394: FWF21BSCC

**BOLD** = Stocked Items
### RJFTV FEATURES

#### MAIN CHARACTERISTICS
- Sealed against fluids and dusts (IP68)
- Shock, vibration and traction-resistant
- No cabling operation in-field and no tools required
- Mechanical coding / polarization (4 positions)
- Improved EMI-protection
- Tri-Start thread coupling mechanism (MIL-DTL-38999 series III-type) with anti-decoupling device
- Robust metallic shells
- RJ45 cordset retention in the plug: 100 N in the axis
- Mating cycles: 500 min.
- Compatible with cable diameters from 0.236 in. (6 mm) to 0.512 in. (13.0 mm)

#### ENVIRONMENTAL PROTECTION
- Sealing: IP68
- Salt Spray: 48-hour with aluminum shell - nickel-plating > 500-hour with aluminum shell - olive drab cadmium plating; 1000-hour with marine bronze shell
- Fire-retardant/low-smoke: UL94 V0 and NF F 16 101 & 16 102
- Vibrations: 10 – 500 Hz, 10 g, 3 axes: no discontinuity > 10 nanos.
- Compounded versions tested per NAS 1599 (5-3000 Hz, 20g, 12h)
- Shocks: IK06; weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
- Humidity: 21 days, 109.4°F (43°C), 98% humidity
- Thermal shock: 5 cycles at -40°F to +212°F (-40°C to +100°C)
- Operating temperature: -40°F to +185°F (-40°C to +85°C)

#### DATA TRANSMISSION
- 10 Base-T, 100 Base-TX, and 1000 Base-T networks
- CAT5e per TIA/EIA 568B and Class D per ISO/IEC 11801
- CAT6 per TIA/EIA 568B and Class E per ISO 11801

#### PLUG

<table>
<thead>
<tr>
<th>PLATING</th>
<th>CABLE GLANDS PLASTIC</th>
<th>METAL</th>
<th>STANDARD BOX MOUNT</th>
<th>CORDSET BOX MOUNT</th>
<th>RIGHT ANGLE FEMALE RJ45</th>
<th>CABLE GLANDS PLASTIC</th>
<th>METAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Bronze</td>
<td>RJFTV6BZ</td>
<td>RJFTV6MBZ</td>
<td>RJFTV21BZ††</td>
<td>RJFTV22BZ††</td>
<td>RJFTV21RABZ††</td>
<td>RJFTV2PE1BZ</td>
<td>RJFTV2PEM1BZ</td>
</tr>
<tr>
<td>Nickel</td>
<td>RJFTV6N</td>
<td>RJFTV6MN</td>
<td>RJFTV21IN††</td>
<td>RJFTV22N††</td>
<td>RJFTV21RAN††</td>
<td>RJFTV2PE1N</td>
<td>RJFTV2PEM1N</td>
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<tr>
<td>Olive Drab Cadmium</td>
<td>RJFTV6G</td>
<td>RJFTV6MG</td>
<td>RJFTV21G††</td>
<td>RJFTV22G††</td>
<td>RJFTV21RAG††</td>
<td>RJFTV2PE1G</td>
<td>RJFTV2PEM1G</td>
</tr>
</tbody>
</table>

- **Select for Cordset Length** 03 = 11.81 (0.30M) 05 = 19.68 (0.50M) 10 = 39.37 (1.00M) 15 = 59.05 (1.50M)
- **Use prefix RJFTV6 for CAT6 version (receptacles only)**

#### RECEPTACLES

#### JAM NUT RECEPTACLE

<table>
<thead>
<tr>
<th>PLATING</th>
<th>STANDARD JAM NUT</th>
<th>CORSET JAM NUT</th>
<th>RIGHT ANGLE FEMALE RJ45</th>
<th>CABLE GLAND PLASTIC</th>
<th>DUST CAP PLUG</th>
<th>BOX MOUNT JAM NUT</th>
<th>SELF CLOSING CAP***</th>
<th>INSERT REMOVAL TOOL</th>
<th>FLANGE GASKET</th>
<th>BOLD =Stocked Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Bronze</td>
<td>RJFTV1BZ††</td>
<td>RJFTV2B2Z††</td>
<td>RJFTV21RABZ††</td>
<td>RJFTV2PE1BZ††</td>
<td>RJFTV2PE6BZ</td>
<td>RJFTV2C2BZ</td>
<td>RJFTV2C7BZ</td>
<td>RJFODE</td>
<td>JE19</td>
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<tr>
<td>Olive Drab Cadmium</td>
<td>RJFTV1G††</td>
<td>RJFTV2G††</td>
<td>RJFTV21RAG††</td>
<td>RJFTV2PE1G††</td>
<td>RJFTV2PE6G</td>
<td>RJFTV2C2G</td>
<td>RJFTV2C7G</td>
<td>RJFVSCG</td>
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</tbody>
</table>

- **Use prefix RJFTV6 for CAT6 version (receptacles only)**
- **Select for Cordset Length** 03 = 11.81 (0.30M) 05 = 19.68 (0.50M) 10 = 39.37 (1.00M) 15 = 59.05 (1.50M)
- **Only for RJFTV2 type flanged receptacles**

All dimensions in inches (millimeters in parenthesis)
**RJFTV TRANSVERSALLY-SEALED**

<table>
<thead>
<tr>
<th>PLATING</th>
<th>RECEPTACLE</th>
<th>JAM NUT RECEPTACLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STANDARD</td>
<td>CORSET</td>
</tr>
<tr>
<td></td>
<td>SEALED</td>
<td>SEALED</td>
</tr>
<tr>
<td></td>
<td>BOX MOUNT</td>
<td>BOX MOUNT</td>
</tr>
<tr>
<td>Marine Bronze</td>
<td>RJFTV2S#1BZ††</td>
<td>RJFTV2S#2B#100BZTX††</td>
</tr>
<tr>
<td>Nickel</td>
<td>RJFTV2S#1N††</td>
<td>RJFTV2S#2N#100BZTX††</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>RJFTV2S#1G††</td>
<td>RJFTV2S#2G#100BZTX††</td>
</tr>
</tbody>
</table>

* Coding A, B, C, D  †† Select for Cordset Length  03 = 11.81 (0.30M)  05 = 19.68 (0.50M)  10 = 39.37 (1.00M)  15 = 59.05 (1.50M)

**RJFTV HERMETICALLY SEALED**

<table>
<thead>
<tr>
<th>PLATING</th>
<th>RECEPTACLE</th>
<th>JAM NUT RECEPTACLE</th>
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<td></td>
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<td>BOX MOUNT</td>
</tr>
<tr>
<td>Marine Bronze</td>
<td>RJFTV2H#1BZ††</td>
<td>RJFTV2H#2B#100BZTX††</td>
</tr>
<tr>
<td>Nickel</td>
<td>RJFTV2H#1N††</td>
<td>RJFTV2H#2N#100BZTX††</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>RJFTV2H#1G††</td>
<td>RJFTV2H#2G#100BZTX††</td>
</tr>
</tbody>
</table>

†† Use prefix RJFTV6 for CAT6 version (receptacles only)

**SPECIALS**

**THROUGH BULKHEAD RECEPTACLE**

<table>
<thead>
<tr>
<th>PLATING</th>
<th>NON METALIZED INSERTS</th>
<th>METALIZED INSERTS</th>
<th>SQUARE FLANGE</th>
<th>JAM NUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>RJFTV2NISOBRT††</td>
<td>RJFTV2NISONI††</td>
<td>RJFTV2S#5NF459††</td>
<td>RJFTV7S#5NF459††</td>
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<tr>
<td>Olive Drab Cadmium</td>
<td>RJFTV2GISOBRT††</td>
<td>RJFTV2GISONI††</td>
<td>RJFTV2S#5GF459††</td>
<td>RJFTV7S#5GNF459††</td>
</tr>
</tbody>
</table>

†† Use prefix RJFTV6 for CAT6 version (receptacles only)  * Coding A, B, C, D

**ASSEMBLY INSTRUCTIONS**

For assistance in Europe and China, please see the back cover for a complete listing of our branch offices and contact numbers. Specifications subject to change.
**PLUG**

**RJF TV 6**
Plug with plastic or metal gland

**RECEPTACLES**

**RJF TV6 21**
**RJF TV 21**
Square flange

**RJF TV6 21 RA**
**RJF TV 21 RA**
Right-angle square flange

**RJF TV6 2 PE (M)**
**RJF TV 2 PE (M)**
**RJF TV 7 PE (M)**
**RJF TV 7 PE (M)**
IP68 backshell: • Shell type 2PE and 7PE plastic or metal gland

Cable Exit Range .236 (6.0) to .512 (13.0)

Common Receptacle Dimensions

Panel Cutout

All dimensions in inches (millimeters in parenthesis)
RECEPTACLES

RJF TV6 71
RJF TV 71
Jam nut receptacle

RJF TV6 71 RA
RJF TV 71 RA
Right-angle jam nut

SPECIALS

THROUGH BULKHEAD RECEPTACLE

Max Panel Thickness .352 (8.94)

STAND-OFF RECEPTACLE

All dimensions in inches (millimeters in parenthesis)
RJFTV - WITH 360° EMI BACKSHELLS

RJFTV series receptacles and plugs with EMI backshells provide a solution with 360-degree shielding offering similar protection as the standard MIL-DTL-38999 series III connectors. With those solutions, we recommend using our reinforced and double shielded CAT5e cable.

RJFTV RECEPTACLES AND PLUGS WITH 360° EMI BACKSHELLS

### PART NUMBERS

<table>
<thead>
<tr>
<th>PLATING</th>
<th>SQUARE FLANGE RECEPTACLE</th>
<th>JAM NUT RECEPTACLE</th>
<th>PLUG</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>STRAIGHT</td>
<td>STRAIGHT</td>
<td>STRAIGHT</td>
</tr>
<tr>
<td></td>
<td>RIGHT ANGLE</td>
<td>RIGHT ANGLE</td>
<td>RIGHT ANGLE</td>
</tr>
<tr>
<td>Nickel</td>
<td>KIT38082NI</td>
<td>KIT38204NI</td>
<td>KIT38081NI</td>
</tr>
<tr>
<td></td>
<td>KIT40791NI</td>
<td>KIT40771NI</td>
<td>KIT40792NI</td>
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<tr>
<td>Olive Drab Cadmium</td>
<td>KIT38082</td>
<td>KIT38204</td>
<td>KIT38081</td>
</tr>
<tr>
<td></td>
<td>KIT40791</td>
<td>KIT40771</td>
<td>KIT40792</td>
</tr>
</tbody>
</table>

**RJFTV - WITH 360° EMI BACKSHELLS**

- **SQUARE FLANGE RECEPTACLE STRAIGHT BACKSHELL**
  - KIT38082, KIT38082NI, KIT40791 & KIT40791NI include:
  - Receptacle - Body
  - 2 Metallized Inserts
  - RJ45 Receptacle
  - Backshell Body
  - Heat-Shrink Sleeve

- **SQUARE FLANGE RECEPTACLE RIGHT ANGLE BACKSHELL**
  - Panel Cutout

- **JAM NUT RECEPTACLE STRAIGHT BACKSHELL**
  - Panel Cutout

- **JAM NUT RECEPTACLE RIGHT ANGLE BACKSHELL**
  - Panel Cutout

For assistance in North America: +1 800.675.1214 • www.peigenesis.com • sales@peigenesis.com
**IMPORTANT NOTE**

With these plugs, the standard RJ45 plug is not provided. The crimping of a standard RJ45 onto the cable must be done by the user.

We advise using our double shielded, reinforced CAT5e cable with these RJFTV series EMI connectors. Contact us to check backshell compatibility for other cable types.

We also provide assembled cordsets (see examples below).
USBFTV - USB-A

**USBFTV USB-A FEATURES**

**MAIN CHARACTERISTICS**
- Sealed against fluids and dust (IP68)
- Shock, vibration and traction-resistant
- No cabling operation in-field and no tools required
- Improved EMI-protection
- Tri-Start thread coupling mechanism (MIL-DTL-38999 series III-type) with anti-decoupling device
- 2 mechanical coding / polarization possibilities by the user (receptacle insert rotation)
- USBFTV plug retention in the receptacle: 100 N in the axis
- Mating cycles: 500 to 1500

**ENVIRONMENTAL PROTECTION**
- Sealing (when mated): IP68 (Temporary immersion)
- Salt Spray: 48-hour with nickel-plating > 500-hour with olive drab cadmium 1000-hour with marine bronze shell
- Fire-retardant / low-smoke: UL94 V0 and NF F 16 101 & 16 102
- Vibrations: 10 – 500 Hz, 10 g, 3 axes: no discontinuity > 1 micros
- Shocks: IK06; weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
- Humidity: 21 days, 109.4°F (43°C), 98% humidity
- Temperature Range: -40°F to +185°F (-40°C to +85°C)

**DATA TRANSMISSION**
USB 2.0 and 3.0 specifications
Data Rate: Up to 480 Mb/s (2.0) or 5g Bit/s (3.0) for high-speed

<table>
<thead>
<tr>
<th>PLATING</th>
<th>STANDARD</th>
<th>SQUARE FLANGE RECEPTACLE</th>
<th>FEMALE USB-A</th>
<th>SOLDER (4 TINNED HOLES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Bronze</td>
<td>USBFTV6BZ</td>
<td>USBFTV21BZ</td>
<td>USBFTV2PE1BZ</td>
<td>USBFTV22BZ</td>
</tr>
<tr>
<td>Nickel</td>
<td>USBFTV6N</td>
<td>USBFTV21N</td>
<td>USBFTV2PE1N</td>
<td>USBFTV22N</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>USBFTV6G</td>
<td>USBFTV21G</td>
<td>USBFTV2PE1G</td>
<td>USBFTV22G</td>
</tr>
</tbody>
</table>

Note: Use prefix USB3FTV for 3.0 version on both plugs and receptacles.

**PLUG ASSEMBLY INSTRUCTIONS**

**STEP 1:** If you need a full sealing to IP68, install the white sticker around the plug, covering the four holes of the overmolding.

**STEP 2:** Insert the black o-ring around the front face of the USB-A plug. This O-ring will ensure connection sealing.

**STEP 3:** Insert the USB cordset into the metallic backshell.

**STEP 4:** Insert the retention spacer laterally to the cable (this spacer is soft in order to adapt to different shapes of overmolding) and slide the overmolding of the USB-A plug into this retention spacer.

**IMPORTANT NOTE**
The connection sealing is not done by the black retention spacer (which is slotted), but by the front face O-Ring (fig. 2)
## USBFTV USB-A FEATURES

### USBFTV TRANSVERSALLY SEALED

#### SQUARE FLANGE RECEPTACLE

<table>
<thead>
<tr>
<th>PLATING</th>
<th>STANDARD USB-A PLUG</th>
<th>OPEN CABLE</th>
<th>W/BACKSHELL AND PLASTIC GLAND</th>
<th>W/ BACKSHELL AND METAL GLAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>USBFTV2S•2N•A</td>
<td>USBFTV2S•2N•OPEN</td>
<td>USBFTV2PES•2N•A</td>
<td>USBFTV2PEMS•2N•A</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>USBFTV2S•2G•A</td>
<td>USBFTV2S•2G•OPEN</td>
<td>USBFTV2PES•2G•A</td>
<td>USBFTV2PEMS•2G•A</td>
</tr>
</tbody>
</table>

* Coding A, B, C, D ** Select for Cordset Length O3 = 11.81 (0.30M) O5 = 19.68 (0.50M) O10 = 39.37 (1.00M)

**Note:** Use prefix USB3FTV for 3.0 version on both plugs and receptacles.

#### JAM NUT RECEPTACLE

<table>
<thead>
<tr>
<th>PLATING</th>
<th>STANDARD USB-A PLUG</th>
<th>OPEN CABLE</th>
<th>W/BACKSHELL AND PLASTIC GLAND</th>
<th>W/ BACKSHELL AND METAL GLAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>USBFTV7S•2N•A</td>
<td>USBFTV7S•2N•OPEN</td>
<td>USBFTV7PES•2N•A</td>
<td>USBFTV7PEMS•2N•A</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>USBFTV7S•2G•A</td>
<td>USBFTV7S•2G•OPEN</td>
<td>USBFTV7PES•2G•A</td>
<td>USBFTV7PEMS•2G•A</td>
</tr>
</tbody>
</table>

* Coding A, B, C, D ** Select for Cordset Length O3 = 11.81 (0.30M) O5 = 19.68 (0.50M) O10 = 39.37 (1.00M)

**Note:** Use prefix USB3FTV for 3.0 version on both plugs and receptacles.

### RECEPTACLES

<table>
<thead>
<tr>
<th>FEMALE USB-A</th>
<th>PLUG</th>
<th>SOLDER (4 TINNED HOLES)</th>
<th>SELF-CLOSING CAP</th>
<th>INSERT REMOVAL TOOL</th>
<th>FLANGED GASKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>USBFTV71BZ</td>
<td>USBFTV2BZ</td>
<td>USBFTV7PE1BZ</td>
<td>USBFTV7PESBZ</td>
<td>USBFTV7PEMBZ</td>
<td>USBFTV7BZ</td>
</tr>
<tr>
<td>USBFTV71N</td>
<td>USBFTV2N</td>
<td>USBFTV7PE1N</td>
<td>USBFTV7PESN</td>
<td>USBFTV7PEMN</td>
<td>USBFTV7N</td>
</tr>
<tr>
<td>USBFTV71G</td>
<td>USBFTV2G</td>
<td>USBFTV7PE1G</td>
<td>USBFTV7PESG</td>
<td>USBFTV7PEMG</td>
<td>USBFTV7G</td>
</tr>
</tbody>
</table>

**Note:** Use prefix USB3FTV for 3.0 version on both plugs and receptacles.

### ACCESSORIES

- **Coding A, B, C, D**
- **Select for Cordset Length O3 = 11.81 (0.30M) O5 = 19.68 (0.50M) O10 = 39.37 (1.00M)

**Note:** Use prefix USB3FTV for 3.0 version on both plugs and receptacles.

### PLUG ASSEMBLY INSTRUCTIONS

**STEP 5:** Insert the friction ring laterally to the cable.

**STEP 6:** Choose the right coding (2 positions) and insert the USB-A plug into the protective plug. Note that at this step, the main key is used for polarization.

**STEP 7:** Screw the backshell onto the plug body. A wrench may be necessary to fully tighten.

---

All dimensions in inches (millimeters in parenthesis)

For assistance in Europe and China, please see the back cover for a complete listing of our branch offices and contact numbers. Specifications subject to change.
**RECEPTACLE ASSEMBLY INSTRUCTIONS**

**INSERTION**

**STEP 1:** Insert the USB module from the rear. Reference is main key.

**STEP 2:** Take care to have a coding compatible with the coding used for the plug: in the front view, the white shapes in the USBs must be on the same side.

**EXTRACTION**

**STEP 1:** To remove the USB module, insert the removal tool USBF ODE from the front.

**STEP 2:** Push back the module as shown.

All dimensions in inches (millimeters in parenthesis)
**USB B FIELD**

**MAIN CHARACTERISTICS**
- Sealed (IP68) USB-B connection system
- USB-B male plug overmolded on USB2.0 cable
- USB-A plug can be used with USBFTV
- USB-B female receptacle with 50 mm wires & five-way connectors
- Plastic shells
- Thread coupling
- Rear mount jam nut receptacle with panel gasket included
- To -4°F +176°F (-20°C +80°C)

**APPLICATIONS**
- Embedded computers
- Data transfer
- * Numerical control machine

**USB B FIELD**

**MALE SEALED PLUG USB-B / USB-A CORDSET**

**FEMALE RECEPTACLE AND CAP**

**MAIN CHARACTERISTICS**
- Sealed (IP68) USB-B connection system
- USB-B male plug overmolded on USB2.0 cable
- USB-A plug can be used with USBFTV
- USB-B female receptacle with 50 mm wires & five-way connectors
- Plastic shells
- Thread coupling
- Rear mount jam nut receptacle with panel gasket included
- To -4°F +176°F (-20°C +80°C)

**APPLICATIONS**
- Embedded computers
- Data transfer
- * Numerical control machine

**USB B FIELD**

**PART NUMBERS:**

L = 39.37±1.97 [1000±50mm] - P/N: USBBF6100
L = 78.74±1.97 [2000±50mm] - P/N: USBBF6200

(*) To get a sealed USB-A plug, use our USB FTV series.

**PIN ASSIGNMENTS (FRONT VIEW)**

1 = RED (24 AWG)
2 = WHITE (28 AWG)
3 = GREEN (28 AWG)
4 = BLACK (24 AWG)
Shield = Drain

**RECEPTACLE – FEMALE USB-B**

**JWT CONNECTOR – PITCH 2.5MM**

JWT 1 = USB1 = RED (24 AWG)
JWT 2 = USB2 = WHITE (28 AWG)
JWT 3 = USB3 = GREEN (28 AWG)
JWT 4 = USB4 = BLACK (24 AWG)
JWT 5 = USB Shield = YELLOW (24 AWG)

**CAP PN: USBBFC7**

**RECEPTACLE & CAP**

All dimensions in inches (millimeters in parenthesis)
USBBFTV - USB-B

MAIN CHARACTERISTICS
- Sealed against fluids and dust (IP68)
- Shock, vibration and traction-resistant
- No cabling operation in-field and no tools required
- Improved EMI-protection
- Tri-Start thread coupling mechanism (MIL-DTL-38999 series III-type) with anti-decoupling device
- 2 mechanical coding / polarization possibilities by the user (receptacle insert rotation)
- USBFTV plug retention in the receptacle: 100 N in the axis
- Mating cycles: 500 to 1500

ENVIRONMENTAL PROTECTION
- Sealing (when mated): IP68 (Temporary immersion)
- Salt Spray: 48-hour with nickel-plating > 500-hour with olive 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 > 1 micros
- Shocks: IK06; weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
- Humidity: 21 days, 109.4°F (43°C), 98% humidity
- Temperature Range: -40°F to +185°F (-40°C to +85°C)

DATA TRANSMISSION
USB Specification 2.0
Data Rate: Up to 480 Mb/s for high-speed

<table>
<thead>
<tr>
<th>PLUG</th>
<th>RECEPTACLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLATING</td>
<td>STANDARD</td>
</tr>
<tr>
<td>Nickel</td>
<td>USBBFTV6N</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>USBBFTV6G</td>
</tr>
</tbody>
</table>

All dimensions in inches (millimeters in parenthesis)
**USBFF TV USB-B FEATURES**

**USBBFTV TRANSVERSALLY-SEALED**

<table>
<thead>
<tr>
<th>PLATING</th>
<th>PLUG</th>
<th>SQUARE FLANGE</th>
<th>RECEPTACLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard USB-B Plug</td>
<td>OPEN CABLE</td>
<td>W/ BACKSHELL PLASTIC GLAND</td>
<td>W/ BACKSHELL METAL GLAND</td>
</tr>
<tr>
<td>Nickel</td>
<td>USBBFTV2S2N***A</td>
<td>USBBFTV2S2N***OPEN</td>
<td>USBBFTV2PES2N***A</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>USBBFTV2S2G***A</td>
<td>USBBFTV2S2G***OPEN</td>
<td>USBBFTV2PES2G***A</td>
</tr>
</tbody>
</table>

- Coding A, B, C, D  
- **Select for Cordset Length**  
  03 = 11.81 (0.30M)  
  05 = 19.68 (0.50M)  
  10 = 39.37 (1.00M)  
  15 = 59.05 (1.50M)

**RECEPTACLES**

<table>
<thead>
<tr>
<th>FEMALE USB-A</th>
<th>JAM NUT</th>
<th>PLUG</th>
<th>FLANGE</th>
<th>JAM NUT</th>
<th>TOOL</th>
<th>GASKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD METAL BACKSHELL METAL BACKSHELL + PLASTIC GLAND</td>
<td>USBBFTV71N</td>
<td>USBBFTV71G</td>
<td>USBBFTV7PE1N</td>
<td>USBBFTV7PE1G</td>
<td>USBBFTV7PE2N</td>
<td>USBBFTV7PE2G</td>
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**ACCESSORIES**

<table>
<thead>
<tr>
<th>RECEPTACLES</th>
<th>JAM NUT</th>
<th>PLUG</th>
<th>FLANGE</th>
<th>JAM NUT</th>
<th>TOOL</th>
<th>GASKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>METALLIC DUST CAPS</td>
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<td>USBBFTVC6N</td>
<td>USBBFTVC2N</td>
<td>USBBFTVC7N</td>
<td>USBBF ODE</td>
<td>JE15</td>
</tr>
</tbody>
</table>

**RECEPTACLE**

**USBBFTV7**
Jam Nut Receptacle

**USBBF TV 2PE/7PE-1**
Backshell used with back termination type 1: USB-A receptacle

**USBBF TV 2PE(M)/7PE(M)-2**
Backshell used with back termination type 2: Solder IP68

Panel Cutout

For assistance in Europe and China, please see the back cover for a complete listing of our branch offices and contact numbers. Specifications subject to change.
USBFTV SC FEATURES

USBFTV SC – SPRING-LOADED RECEPTACLE

MAIN CHARACTERISTICS
- Sealed against fluids and dust (IP67)
- Shock, vibration and traction-resistant
- No cabling operation in-field and no tools required
- Improved EMI-protection
- Mating cycles: 500
- Mating force after 500 cycles: 40 N
- Unmating force after 500 cycles: 55 N

ENVIRONMENTAL PROTECTION
- Sealing (when mated): IP67 (Temporary immersion)
- Salt Spray: 48-hour with nickel-plating > 500-hour with olive 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 > 1 micros
- Shocks: IK06; weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
- Humidity: 21 days, 109.4°F (43°C), 98% humidity

DATA TRANSMISSION
- USB Specification 2.0
- Data Rate: Up to 480 Mb/s for high-speed

<table>
<thead>
<tr>
<th>PLATING</th>
<th>STANDARD</th>
<th>INLINE</th>
<th>SQUARE FLANGE</th>
<th>JAM NUT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>FEMALE</td>
<td>FEMALE</td>
<td>SOLDER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USB-A</td>
<td>USB-A</td>
<td>(4 TINNED HOLES)</td>
</tr>
<tr>
<td>Marine Bronze</td>
<td>USBFSC6BZ</td>
<td>USBFSC11BZ</td>
<td>USBFSC21BZ</td>
<td>USBFSC71BZ</td>
</tr>
<tr>
<td>Nickel</td>
<td>USBFSC6N</td>
<td>USBFSC11N</td>
<td>USBFSC21N</td>
<td>USBFSC71N</td>
</tr>
<tr>
<td>Olive Drab Cadmium</td>
<td>USBFSC6G</td>
<td>USBFSC11G</td>
<td>USBFSC21G</td>
<td>USBFSC71G</td>
</tr>
</tbody>
</table>

BACK TERMINATIONS – USBFSC RECEPTACLES

Type 1: Female USB-A
Type 2: Solder four tinned holes to solder cable
View of the PCB of Type 2 with four tinned holes for solder termination
**USBFTV SC DIMENSIONS**

**PLUG**

**USBFSC 6 X**  
Shell type 6

**RECEPTACLES**

**USBFSC 21 X**  
Square flange  
4 mounting holes: shell type 2

**USBFSC 71 X**  
Jam nut receptacle  
Hexagonal nut mounting:  
Shell type 7

**USBFSC 11 X**  
Inline receptacle  
Shell type 1

Specifications subject to change.

For assistance in Europe and China, please see the back cover for a complete listing of our branch offices and contact numbers.
MEMORY KEYS

REINFORCED USBFTV

ENVIRONMENTAL PROTECTION
- Sealing: IP68 (when mated)
- Salt spray: 48-hour with nickel-plating (ROHS) > 500-hour with olive drab cadmium
- Vibrations: MIL-STD-810F method 514.5 fig 514.5.C CAT14
- Temperature range: -40°F to +185°F (-40°C to +85°C) (MIL-STD-810F)
- Data transmission during vibration & temperature tests

OTHER FEATURES
- Type: USB2.0
- Voltage: 5V DC - 500 mA maximum
- Electromagnetic compatibility: 89/336/EEC and Part 15 Class B

We offer reinforced USB memory keys in different capacities. They can ONLY be used with our USBFTV series receptacles. When mated on the receptacle, the system is IP68.

RUGGED USB

ENVIRONMENTAL PROTECTION
- Sealing: IP68 (when closed)
- Salt spray: 48-hour with nickel-plating (ROHS) > 96-hour with black coating (ROHS) > 500-hour with olive drab cadmium
- Vibrations: MIL-STD-810F method 514.5 fig 514.5.C CAT14

OTHER FEATURES
- Type: USB2.0
- Voltage: 5V DC - 500 mA max
- Electromagnetic compatibility: 89/336/EEC and Part 15 Class B

We offer reinforced USB memory keys in different capacities. When mated, the system is IP68. Shells are metallic with 1/4-turn bayonet coupling.

**IMPORTANT NOTE**
USBFTV memory key to be used with USBF TV receptacle.

### REINFORCED USBFTV MEMORY KEYS

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<tr>
<th>Plating</th>
<th>512MB</th>
<th>1024MB</th>
<th>2048MB</th>
<th>4096MB</th>
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* Coding A or B  ** Blank = without CAP  CAP = with CAP

**BOLD** = Stocked Items

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