MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITH)
Quadrax Connector

Series
ITH - MIL-DTL-5015 Type; Reverse Bayonet Coupling; Rigid Inserts

Shell Size
18 - for Quadrax

Contact
P - Plug (male)
S - Socket (female)

Connector Accessory
CRG - Plastic Conduit Fitting
PHM - Environmental Sealing Backshell
(Other Available Upon Request)

ITH 02 18 Q81 - Y - PHM F6

Connector Shell Style
(See Table I)
00
01
030
070
06

Contact Type
Q81 - 4x24 AWG 7mm Cable Diameter, 100 Ohm
Q01 - 4x20 AWG 7mm Cable Diameter, 100 Ohm
Q02 - 4x18 AWG 10mm Cable Diameter, 100 Ohm

Plating
F6 - Black Electrodeposited Paint (Std.)
F7 - Black Zinc Nickel Plating
Omit - For Cadmium Plating

Figure 1
Receptacle (Front)

Figure 2
Plug (Front)
High Speed quadrax connectors offer a host of data transmission benefits, but are often hamstringed by their lack of environmental sealing and durability. Glenair recognized this and created a high speed quadrax contact housed within a rugged ITH series reverse bayonet 5015 type connector. Users can now satisfy their high speed data transmission needs with the reliability of an environmentally sealed and backshell compatible connection system. The ITH Gigastar connector is available with three different contacts and black electrodeposited and black zinc nickel plating options. Cadmium plating is also available.

**TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable for cables</td>
<td>equivalent to CAT. 5</td>
</tr>
<tr>
<td>Attenuation</td>
<td>.3 dB @ 100MHz (typical per contact pair)</td>
</tr>
<tr>
<td>Crosstalk</td>
<td>≥40 dB @ 100 MHz (typical)</td>
</tr>
<tr>
<td>Max Contact Resistance</td>
<td>15 mΩ</td>
</tr>
<tr>
<td>Characteristic Impedance</td>
<td>150 Ω (100 MHz - 1 GHz)</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-40° C to +100° C</td>
</tr>
<tr>
<td>Environmental Rating</td>
<td>IP67 (mated)</td>
</tr>
<tr>
<td>Contacts</td>
<td>Q81 - 4x24 AWG 7mm Cable Diameter, 100 Ohm</td>
</tr>
<tr>
<td></td>
<td>Q01 - 4x20 AWG 7mm Cable Diameter, 100 Ohm</td>
</tr>
<tr>
<td></td>
<td>Q02 - 4x18 AWG 10mm Cable Diameter, 100 Ohm</td>
</tr>
</tbody>
</table>

**QUADRAX CONTACTS**

**Pin Contact**

**Socket Contact**

**TABLE I**

**Connector Shell Detailed Description**

- **00** - Front Panel Mount Square Flange Receptacle with Accessory Threads
- **01** - In Line Cylindrical Receptacle with Accessory Threads
- **030** - Rear Panel Mount Square Flange Receptacle with Accessory Threads
- **070** - Rear Panel Mount Jam Nut Receptacle with Accessory Threads
- **06** - Straight Cylindrical Plug Connector with Accessory Threads
MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITH)
Quadrax Connector

CONFIGURATIONS AVAILABLE : ITH 00

ITH0018QXX-Y-CRGF6

ITH0018QXX-Y-PHMF6

CONFIGURATIONS AVAILABLE : ITH 01

ITH0118QXX-Y-CRGF6
MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITH)
Quadrax Connector

CONFIGURATIONS AVAILABLE : ITH 070

ITH07018QXX-Y-CRGF6

ITH07018QXX-Y-PHMF6

CONFIGURATIONS AVAILABLE : ITH 06

ITH0618QXX-Y-CRGF6

Front View

Front View

Front View