4.3-10 CONNECTOR
Full sized performance in miniaturized space

» Excellent PIM performance
» Superior electrical performance
» Compact connector size
» Screw / Hand-screw / Quick lock coupling
» Easy installation
4.3-10 CONNECTOR
Small and reliable

With our new compact and easy to install 4.3-10 series, IMS Connector Systems is in advance of the mobile communication industry’s most demanding requirements. Despite a significant smaller size than 7/16 connectors, they offer outstanding return loss and low passive intermodulation values. Because of their innovative ground connection, this performance is independent of installation torque. Quick lock versions are available in addition to conventional wrenched and hand-tightened screw-on connections.

Product Features

» One interface – 3 coupling variations
   - Screw / Hand-screw / Quick lock coupling

» Excellent passive intermodulation behaviour
   - Very low passive intermodulation
   - Independent of torque and coupling mechanism

» Premium RF performance independent of torque
   - Outstanding return and insertion loss
   - High shielding efficiency

» Space and weight saving construction
   - 40% smaller than 7/16 series
   - 25.4 mm compact flange size
   - 60% weight savings over conventional 7/16 connectors

» IP 68 watertight seal in longitudinal and transverse direction
   - Full radio and antenna protection in mated and unmated conditions with customized IP 68 solutions
   - Compliant with IEC 60529

» High mechanical protection of RF contact areas

» Complies with IEC-169-54 norm

» Lead-free compliant with RoHS (Directive 2002/95/EC)

» Recyclable components compliant with WEEE (Directive 2002/96/EC)
APPLICATONS

» Designed for mobile network equipment in
  - macro cell
  - small cell
  - in-building wireless systems

» Radio Remote Units

» Active and passive antennas

Comparative Technical Data

<table>
<thead>
<tr>
<th></th>
<th>4.3-10</th>
<th>4.1-9.5 (mini DIN)</th>
<th>7/16 (DIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical flange size</td>
<td>25.4 mm</td>
<td>25.4 mm</td>
<td>32 mm</td>
</tr>
</tbody>
</table>
| Return loss          | ≥ 36 dB @ DC to 4 GHz  
                      | ≥ 32 dB @ 4 GHz to 6 GHz  | ≥ 30 dB @ DC to 0.5 GHz  
                      |                            | ≥ 23 dB @ 0.5 GHz to 4 GHz  
                      |                            | ≥ 20 dB @ 4 GHz to 10 GHz  |
| Power handling       | 500 W @ 2 GHz @ 90° | 450 W @ 2 GHz @ 85° | 1000 W @ 2 GHz @ 85° |
| RF leakage           | ≥ 120 dB @ DC to 6 GHz (screw types)  | ≥ 128 dB @ DC to 1 GHz (tool types)  | ≥ 110 dB @ DC to 1 GHz (tool types)  |
| Passive intermodulation | ≥ 160 dBc @ 2 x 46 dBm @ 0.4 to 4 GHz  | ≥ 158 dBc @ 2 x 43 dBm @ 0.4 to 4 GHz  | - |
| Degree of protection (watertightness) | IP 68 (@ 25m, 1 hour) | IP 68 (@ 25m, 1 hour) | IP 68 (@ 25m, 1 hour) |
| Mating cycles        | ≥ 100             | ≥ 500              | ≥ 500      |
| Coupling mechanisms  | Screw, Hand-screw, Quick lock  | Screw  | Screw  |
| Coupling torque (screw type) | ≥ 5 Nm          | ≥ 17 Nm            | ≥ 25 Nm |

For specification and information in detail please see www.imscs.com >> Product Catalogue
# PANEL MOUNT TYPES

**PRODUCT DESCRIPTION**
- Flange mount jack – □ 21 * 27.5 mm
- Flange mount jack – □ 25.4 mm

**PART NUMBER**
- 7397.VDZ.2018.205
- 5217.VDZ.2018.205
- 25.4 mm

**LENGTH** = 21 mm – 30 mm

**PRODUCT PICTURE**

**PRODUCT DESCRIPTION**
- Flange mount jack – □ 25.4 mm
- Flange mount jack – □ 25.4 mm

**PART NUMBER**
- 7399.VDZ.2018.205
- 5207.VDZ.2818.084
- 7395.VDZ.2018.205
- 7396.VDZ.2018.205

**LENGTH** = 21 mm – 30 mm

**PRODUCT PICTURE**

**PRODUCT DESCRIPTION**
- Flange mount jack – □ 35.6 mm
- Flange mount jack – □ 35.6 mm

**PART NUMBER**
- 5208.VDZ.2018.205
- 7397.VDZ.2018.205
- 7396.VDZ.2018.205

**LENGTH** = 30 mm – 39.5 mm

**PRODUCT PICTURE**

**CABLE MOUNT TYPES**

**PRODUCT DESCRIPTION**
- Flange mount cable jack – □ 25.4 mm
- Flange mount cable jack – □ 32.0 mm

**PART NUMBER**
- 5207.VDZ.2818.084
- 5209.VDZ.2818.074
- 5206.VDZ.2818.084
- 5208.VDZ.2818.074

**PRODUCT PICTURE**

**ADAPTERS**

**PRODUCT DESCRIPTION**
- 4.3-10 (f) – N (f) Adapter
- 4.3-10 (f) – N (m) Adapter

**PART NUMBER**
- 7441.VDZ.9910.005
- 7440.VDZ.8910.005

**PRODUCT PICTURE**

**Remark**: Fully longitudinal & transversal watertight types
### Panel Mount Types

#### Flange Mount Jack

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 x 27.5 mm</td>
<td>7414.VDZ.2018.205</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
<tr>
<td>25.4 mm</td>
<td>7442.VDZ.2018.205</td>
<td>Flange hole Ø 3.5 mm</td>
</tr>
<tr>
<td>25.4 mm</td>
<td>5351.VDZ.2018.205</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4 mm</td>
<td>7406.VDZ.2018.205</td>
<td>Flange hole Ø 3.25 mm</td>
</tr>
<tr>
<td>32.0 mm</td>
<td>7407.VDZ.2018.205</td>
<td>Flange hole Ø 3.6 mm</td>
</tr>
<tr>
<td>25.4 mm</td>
<td>5205.VDZ.2010.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
</tbody>
</table>

- **Length**: 21 mm – 30 mm
- **Part Number**: 7397.VDZ.2018.205

### Cable Mount Types

#### Flange Mount Cable Jack

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4 mm</td>
<td>5207.VDZ.2818.084</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
<tr>
<td>32.0 mm</td>
<td>5208.VDZ.2818.074</td>
<td>Flange hole Ø 4.5 mm</td>
</tr>
<tr>
<td>32.0 mm</td>
<td>5250.VDZ.1020.074</td>
<td>Flange hole Ø 3.6 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4 mm</td>
<td>7408.VDZ.2018.205</td>
<td>Flange hole Ø 3.6 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4 mm</td>
<td>7441.VDZ.9910.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
<tr>
<td>25.4 mm</td>
<td>7440.VDZ.8910.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
<tr>
<td>25.4 mm</td>
<td>7435.VDZ.7910.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
</tbody>
</table>

- **Part Number**: 5201.VDZ.8910.005 / 5202.VDZ.8910.005
- **Part Number**: 5200.VDZ.7910.005 / 5211.VDZ.7910.005

### Adapters

#### 4.3-10 (f) – n (f) Adapter

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring version / Industrial version</td>
<td>7435.VDZ.7910.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
<tr>
<td>Measuring version / Industrial version</td>
<td>5200.VDZ.7910.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
</tbody>
</table>

- **Part Number**: 4.3-10 (m) – 7/16 (m) Adapter

### Product Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3-10 (f) – 7/16 (m) Adapter</td>
<td>7435.VDZ.7910.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
<tr>
<td>4.3-10 (m) – 7/16 (m) Adapter</td>
<td>5200.VDZ.7910.005</td>
<td>Flange hole Ø 3.2 mm</td>
</tr>
</tbody>
</table>

### Product Picture

- **Part Number**: 5250.VDZ.1020.074 UT 141, Flexiform 402
- **Part Number**: 5237.VDZ.1010.074 UT 141, Flexiform 402
ONE JACK FOR ALL PLUG TYPES
3 COUPLING VARIATIONS POSSIBLE

Screw type

Hand-screw type

Quick lock type

Universal jack
EXCELLENT HEAT STABILITY
UP TO 105 °C

PIM MEASUREMENTS

![PIM Measurements Graph]

RETURN LOSS

![Return Loss Graph]