**Technical Data Sheet**

**4.3-10 7-16**

Ruggedized & Torsion Proof High-Performance PIM Test Cable

**IM-CABLE-XXXX**

XXXX = CONNECTOR TYPE AND LENGTH

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### Part number example

- IM-Cable-4310m-4310m-3000
  - (4.3-10 male on both ends, Length 3.0 m)
- IM-Cable-716m-4310m-3000
  - (7-16 and 4.3-10 male, Length 3.0 m)
- IM-Cable-716m-716m-3000
  - (7-16 male on both ends, Length 3.0 m)

### Interface (depending on Model)

- 4.3-10 connectors according to IEC 61169-54
- 7-16 connectors according to IEC 60169-4, VG 95250, EN 122190, DIN 47223

### Electrical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Velocity Factor</td>
<td>80%</td>
</tr>
<tr>
<td>Return loss 1.0 GHz 2.0 GHz</td>
<td>≤-30dB, ≤-27dB</td>
</tr>
<tr>
<td>Return loss 3.0 GHz 4.0 GHz</td>
<td>≤-24dB, ≤-21dB</td>
</tr>
<tr>
<td>Insertion loss (max. at 25 °C, length 3m)</td>
<td>0.7dB, 1.09dB</td>
</tr>
<tr>
<td>Power handling (max. at 40 °C, sea level)</td>
<td>100W at 4.0GHz</td>
</tr>
<tr>
<td>Intermodulation (3rd order)</td>
<td>≤-168dBc (typ. ≤-173dBc) @ 2 x 43dBm</td>
</tr>
</tbody>
</table>

### Mechanical data

- Length: See part number (4 digits at the end) ± 30 mm
- Minimum Bending Radius: dynamic: 120mm
- Coupling Nut Flat Size: 4.3-10: 22mm, 7-16: 32mm
- Recommended Torque: 4.3-10: 5Nm, 7-16: 25Nm
- Connector Material: Stainless Steel, Brass
- Jacket Material: Armour: Galvanized steel wire, Al, Copper (EN 50086-2-3) Braid hose: Halogen-free polypropylene

### Environmental data

- Temperature range
  - Usage: -10°C to +55°C
  - Storage: -40°C to +85°C
- Relative Humidity: 0 to 95%
- RoHS / REACH: compliant

### Weight

- Weight: ≤ 1200 g (7-16, 3.0m)

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