



Single connector for polymer fibres (POF²)

Description

Advantages of the HARTING quick-assembly technique:

- No special tools necessary
- Quick, cost-effective assembly
- No crimping, no glueing
- Fixed connection due to metallic type
- Suitable for 1 mm polymer fibre
2.2 mm jacket

Assembly of the single connectors:

- Cut the cable, strip the jacket, insert of the fibre, tighten the sleeve nut and polish the connector's tip

Assembly of the coupling sleeve:

- Cut the cable's ends, insert in the coupling sleeve and tighten the sleeve nut

Identification	Part-Number	Drawing	Dimensions in mm
<p>Quick-assembly connector for 1 mm polymer fibre cable Ø 2.2mm</p> <p>F-SMA type with hexagonal nut bending - without protection</p> <p>with knurled nut bending - without protection</p> <p>- with bend protection sleeve</p> <p>FH-ST type - without protection</p>	<p>20 10 001 1212</p> <p>20 10 001 1215</p> <p>20 10 001 1217</p> <p>20 10 001 2212</p>		
<p>Coupling sleeve for 1mm polymer fibre cable Ø 2.2 mm</p> <p>Standard-Set</p> <p>Set consisting of 10 pcs</p>	<p>20 80 000 1065</p> <p>20 80 000 1066</p>	<p>Delivery range:</p> <p>4 x quick assembly cable coupler 1 x cutter</p> <p>10 x quick assembly cable coupler</p>	

²⁾ POF = Polymer optical fibre



Single connectors for fibre optical cables (POF²)

Identification	Part-Number	Drawing	Dimensions in mm
<p>FO connectors</p> <p>for 1 mm polymer fibre cable Ø 2.2 mm F-SMA type with hexagonal nut</p>	20 10 001 1211		<p>The connector for 1 mm POF² may be directly attached to the fibre by crimping, gluing or by using a "hot plate".</p> <p>Insertion loss: POF < 2.5 dB</p>
<p>FH-ST type</p>	20 10 001 2211		
<p>Versatile Link type Crimp</p>	20 10 001 7111		
<p>Crimless</p>	20 10 001 7112		
<p>for 1 mm polymer fibre cable 3.6 mm SERCOS F-SMA type with hexagonal nut</p>	20 10 001 1241		
<p>for 1 mm polymer fibre cable 6 mm SERCOS F-SMA type with hexagonal nut</p>	20 10 001 1221		
<p>F-TNC (IP 65)</p> <p>Male cable connector for 1 mm polymer fibre cable-type SERCOS Ø 6mm</p>	20 10 001 6211		
<p>Female cable connector for 1 mm polymer fibre cable-type Ø 2.2 mm</p>	20 10 001 6233		

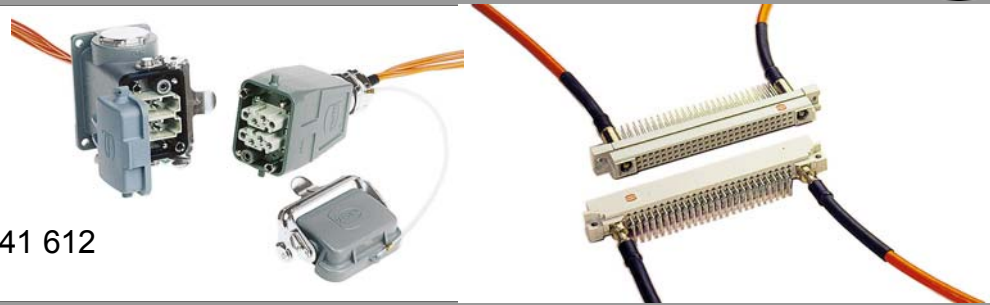
SERCOS = SEriell Realtime COmmunication System

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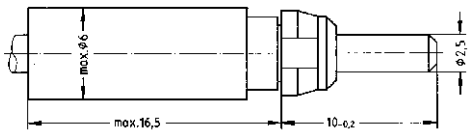
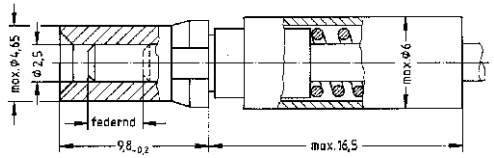
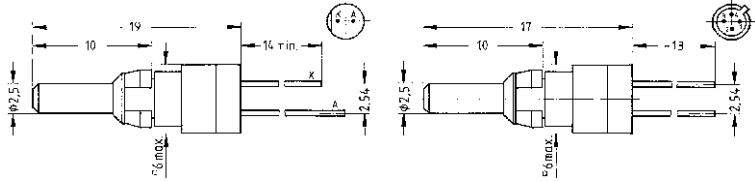
Connectors



for hybrid applications



Gds A-M acc. to DIN 41 612
Han-Modular®

Identification	Part-Number	Drawing	Dimensions in mm
<p>FO contacts acc. to CECC 78001-801 (prior 41 626 part 3)</p> <p>Male contact for GI-fibre 50 / 125 µm 62.5 / 125 µm metal ferrule ceramic ferrule</p> <p>for SI-fibre (HCS)¹⁾ 200 / 230 µm for 1 mm POF</p> <p>Female contact for GI-fibre 50 / 125 µm 62.5 / 125 µm metal ferrule ceramic ferrule</p> <p>for SI-fibre (HCS)¹⁾ 200 / 230 µm for 1 mm POF²⁾</p>	<p>20 10 125 4211 20 10 125 4212</p> <p>20 10 230 4211 20 10 001 4211</p> <p>20 10 125 4221 20 10 125 4222</p> <p>20 10 230 4221 20 10 001 4221</p>	<p>FO contacts for single cables and mixed loading of connectors according to: DIN 41 612 and (Gds A-M) DIN 41 652 (D-Sub) Han-Modular®</p> <p>male</p>  <p>female</p>  <p>Insertion loss: für GI/SI < 1.5 dB für POF < 2.5 dB</p> <p>Connector material: Stainless steel / German silver</p> <p>¹⁾ HCS® (=Hard Clad Silica) is registered trade mark of SpecTran Corporation</p>	
<p>FO contacts acc. to CECC 78001-801</p> <p>Male contact LED for 1 mm for 1 mm POF²⁾</p> <p>Male contact with receiver for 1 mm for 1 mm POF²⁾</p>	<p>20 10 001 4231</p> <p>20 10 001 4232</p>	 <p>The male contact with LED for 1 mm polymer fibre contains a LED with $\lambda = 660$ nm wave-length. Technical details of the LED's see page 23.</p> <p>The male contact with receiver contains an integrated optical receiver with 5 MBit/s, TTL output. Technical details of the receiver see page 24. Other components are available on request.</p> <p>Termination technologies, contact loading and dimensions of the M-type connector acc. to DIN 41 612 as well as removal tools are to be found in the HARTING catalogue "Printed Circuit Board Connectors".</p>	



High density, multipole, rugged construction connectors for industrial engineering plant and machinery

Description

HARTING connector for industrial applications

The standard hoods, housings and inserts can be used for mixed loading with contacts for fibre optic cables and for electrical applications.

- FO contacts for 1 mm POF²⁾
- Suitable for industrial connectors of the series Han[®] D, Han[®] E, Han[®] U, Han[®] K and Han-Modular[®]
- Mixed loading of electrical and optical contacts is possible
- Optical signals and electrical power supply in one connector
- Degree of protection IP 65, 67 and 68 for coupled connectors depends on the hoods and housings applied.

Identification	Part-Number	Drawing	Dimensions in mm								
FO contacts for Han [®] D contact chambers			<p>The FO contacts are only to use with the inserts of the above listed series. Details see catalogue "Heavy Duty Connectors Han[®]". Assembly with the aid of crimping tool 20 99 000 1032 (see page 39)</p>								
for connectors type R 15, Han [®] DD, Han [®] K Male contact Female contact	20 10 001 3211 20 10 001 3221	<table border="1"> <thead> <tr> <th>Ø</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>3,7</td> <td>29,0</td> </tr> <tr> <td>3,7</td> <td>26,5</td> </tr> </tbody> </table>		Ø	a	3,7	29,0	3,7	26,5		
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3,7	29,0										
3,7	26,5										
for connectors type Han [®] 7, 40, 64 D Han [®] 8 U Male contact Han [®] 15 D male Female contact	20 10 001 3212 20 10 001 3213 20 10 001 3222	<table border="1"> <thead> <tr> <th>Ø</th> <th>a</th> </tr> </thead> <tbody> <tr> <td>4,0</td> <td>29,0</td> </tr> <tr> <td>4,0</td> <td>28,0</td> </tr> <tr> <td>4,0</td> <td>26,5</td> </tr> </tbody> </table>	Ø	a	4,0	29,0	4,0	28,0	4,0	26,5	
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4,0	29,0										
4,0	28,0										
4,0	26,5										
FO contacts for Han [®] E contact chambers			<p>¹⁾ only for BUCHANAN-crimping tool in position Ø 1.45 mm</p>								
Male contact	20 10 001 3311										
Female contact	20 10 001 3321										

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