


for assembly and control of cables

## Description


The tools of the HARTING F.O. tool kit are suitable for the installation of F.O. connectors in site conditions.

Detailed instructions for assembling the different connector-types are included.


Identification	Part No.	Drawing	Dimensions in mm
----------------	----------	---------	------------------

Tool kit POF <sup>1)</sup> without optical measuring device	20 99 000 3016		Height : 170 mm Width : 470 mm Depth : 360 mm  Tool kit for F.O. connector assembly to all POF <sup>1)</sup> cables, without optical measuring instruments.
---	----------------	--	---








Tool kit POF <sup>1)</sup> with optical measuring device	20 99 000 3013		Height : 170 mm Width : 470 mm Depth : 360 mm  Tool kit for F.O. connector assembly and control of the F.O. transmission links for 1 mm polymer-optical fibres (POF <sup>1)</sup> ).  When applying these tools, F.O. connector types F-SMA, F-ST and other F.O. contacts can be assembled without adhesive and grinding. The measuring instruments are easy to handle and suitable for service and maintenance. The tool kit contains a complete set of tools and test equipment.
--	----------------	--	--



F.O. kit measuring instruments	20 99 000 3014		Suitable cables are included in the delivery range: 50/125 µm GI-fibre, 1 m 200/230 µm SI-fibre, 1 m 1 mm Plastic fibre 2 m  When ordering, please give the following information: Measuring instruments: • standard with F-SMA link • on request with F-ST link
-----------------------------------	----------------	--	--



<sup>1)</sup> POF = Polymer-Optical Fibre

Identification	Part No.	Drawing								
Tool kit GI-fibre	20 99 000 3015	 <p>Height : 170 mm Width : 470 mm Depth : 360 mm</p> <p>Tool kit for connector mounting of glass fibres, using adhesive e.g.: GI 50/125 µm.</p>								
HARTING Crimping tool for F.O. connector (glass fibre) SW 4.3 and 3.8 mm	20 99 000 1031	 <p>For crimping the strain relief to the connector</p> <p>... 1031 F.O. cable for glass fibre</p> <p>... 1033 POF<sup>1)</sup> and SERCOS<sup>2)</sup> cable ø 6.0; ø 3.6</p>								
HARTING Crimping tool for F.O. connector (glass fibre) SW 6.5, 4.95 and 3.0 mm	<b>20 99 000 1033</b>									
Crimping tool Han-Brid® for electrical and optical crimp contacts	09 99 000 0362									
Cutting tool 2.2 mm POF <sup>1)</sup>	20 99 000 1049	Delivery range: 10 pieces / set								
Fibre stripper 1 mm POF <sup>1)</sup>	20 99 000 1041 <b>20 99 000 1045</b> 20 99 000 1046	0.3 mm 1 mm 0.18/0.3 mm 								
BUCHANAN Crimping tool for crimping installations of F.O. connectors to POF <sup>1)</sup> 1 mm ø	<b>20 99 000 1035</b>	 <p>Adjustable crimping tool setting:</p> <table border="0"> <tr> <td>FOC R 15</td> <td>ø 1.45 mm</td> </tr> <tr> <td>POF<sup>1)</sup> DIN 41 626</td> <td>ø 1.8 mm</td> </tr> <tr> <td>POF<sup>1)</sup> Ferrule</td> <td>ø 1.8 mm</td> </tr> <tr> <td>POF<sup>1)</sup> F-SMA, -ST</td> <td>ø 2.0 mm</td> </tr> </table> <p>This tool is suitable <b>only</b> for F.O. contacts. Crimping tool for electrical contacts see catalogue "Heavy Duty Connectors Han®"</p> <p>Suitable plug gauges and positioning devices to be ordered separately.</p>	FOC R 15	ø 1.45 mm	POF <sup>1)</sup> DIN 41 626	ø 1.8 mm	POF <sup>1)</sup> Ferrule	ø 1.8 mm	POF <sup>1)</sup> F-SMA, -ST	ø 2.0 mm
FOC R 15	ø 1.45 mm									
POF <sup>1)</sup> DIN 41 626	ø 1.8 mm									
POF <sup>1)</sup> Ferrule	ø 1.8 mm									
POF <sup>1)</sup> F-SMA, -ST	ø 2.0 mm									
Positioning device POF <sup>1)</sup> -R 15, Han® E male	<b>20 99 000 0036</b>									
POF <sup>1)</sup> -F-SMA/ST/DIN Ferrule Han® E female	20 99 000 0037 20 99 000 0038									
Plug gauge Ø 1.45 mm Ø 1.8 mm Ø 2.0 mm	20 99 001 1032 <b>20 99 002 1032</b> 20 99 003 1032									

Serial Interfaces

F 90 02

<sup>1)</sup> POF = Polymer Optische Faser

<sup>2)</sup> SERCOS = **SE**riell **R**ealtime **CO**mmunication **S**ystem

**Stock items in bold type**

Identification	Part No.	Drawing	Dimensions in mm
Polishing tool for F.O. connectors: F-SMA	20 99 000 1091		
DIN 41 626	<b>20 99 000 1092</b>		
POF <sup>1)</sup> cable ø 2.2	<b>20 99 000 1093</b>		
F-TNC	20 99 000 1094		
F-ST	20 99 000 1095		
Ferrule	20 99 000 1096		
Polishing kit Versatile Link	20 80 001 9914	Delivery range: Duplex polishing tool 2 x polish paper	
Epoxy adhesive glass fibre	20 80 001 9902	2 ml EPO-TEK 360 with hardener (10:1), 4g foil pack	
Polishing paper		Delivery range: Each part number ordered comprises 5 pieces	
for POF <sup>1)</sup> -grain size 1000	<b>20 80 001 9911</b>		
for GI 9µ-grain size	20 80 001 9912		
for GI 1µ-grain size	20 80 001 9913		

<sup>1)</sup> POF = Polymer-Optical Fibre