

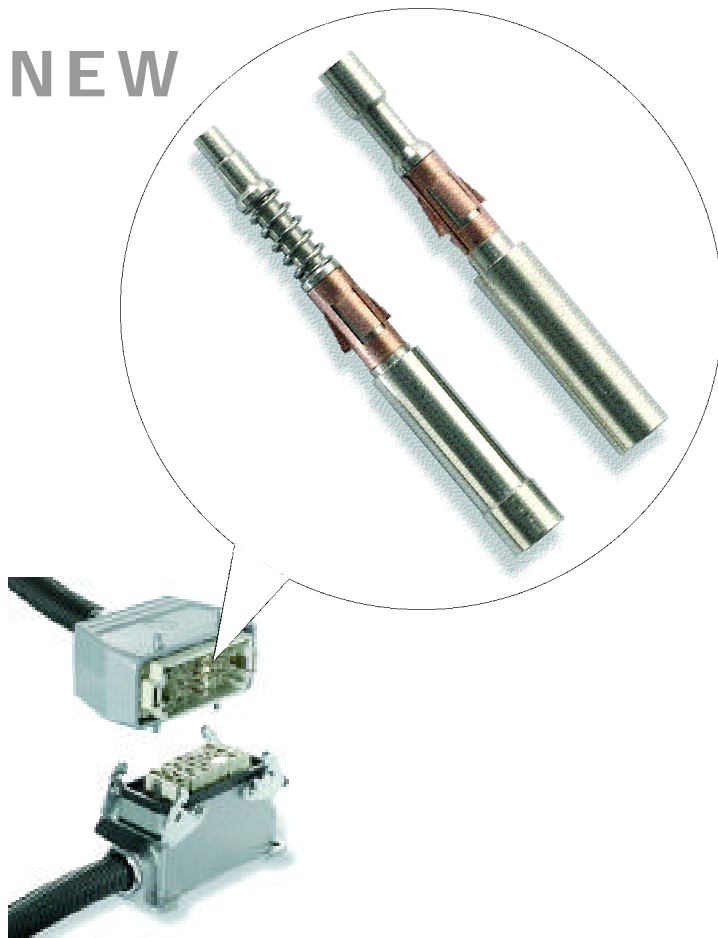
Heavy Duty Connectors

The fiber optic cable contacts

HDC-C-HD-S-LWL 1.0 POF

HDC-C-HD-B-LWL 1.0 POF

NEW



Fiber optic cables guarantee transmissions free from EMI noise and feedback. The new fiber optic cable contacts can now be used in heavy duty connectors as well. Their geometry corresponds to our HD contacts for connecting conventional copper conductors. They can also be used in our modular ConCept system. It is even possible to connect fiber optic cables and copper cables in one connector!

The advantages at a glance:

- immune to electromagnetic interference
- absolute electrical isolation
- less weight due to the omission of copper lines
- high transmission capacity and high bandwidth
- high security against data interception
- protection IP 65, NEMA 4

United States

Weidmuller Inc.
821 Southlake Blvd.
Richmond, Virginia 23236
Telephone: (800) 849-9343
Facsimile: (804) 379-2593
Email: info@weidmuller.com
Website: www.weidmuller.com

Canada

Weidmuller Ltd.
10 Spy Court
Markham, Ontario L3R-5H6
Telephone: (800) 268-4080
Facsimile: (905) 475-2798
Email: info1@weidmuller.ca
Website: www.weidmuller.ca

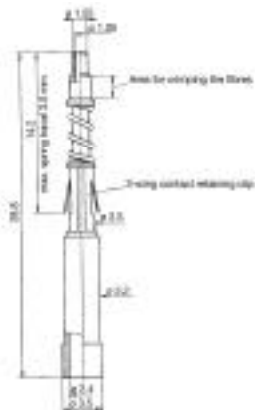
Mexico

Weidmuller, S.A. de C.V.
5 Sur No. 4311
Col. Huexotitla
72534 Puebla, Pue. Mexico
Telephone: (22) 37 2549
Facsimile: (22) 43 1981
Email: weidmull@acnet.net

Weidmüller 

Heavy Duty Connectors

HDC-C-HD-S-LWL 1.0 POF



Ordering data

Version	Type	Part No.	Qty.
Male	HDC-C-HD-S-LWL 1.0 POF	1773630000	10

Technical data

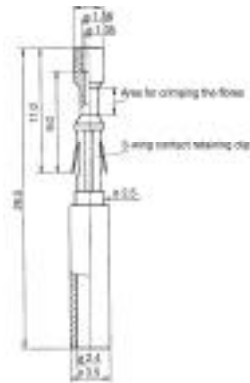
Connection		
for POF cable	with max. O.D.	2.2 mm
	with polymer fiber diameter	1.0 mm

Attention		
- requirements to DIN IEC part 7 section 2, May 1994:		< 3 dB
- of HC-C-HD fiber optic cable contacts when plugged in:		< 2 dB

Mechanical system		
mating cycles		min. 25
push-in force		max. 7.5 N/Pol
pull-out force		max. 7.5 N/Pol

Material		
temperature range in operation		-40°C to +85°C
contact		nickel silver
spring		copper alloy
compression spring of pin contact		1.4310 (stainless steel)

HDC-C-HD-B-LWL 1.0 POF



Ordering data

Version	Type	Part No.	Qty.
Female	HDC-C-HD-B-LWL 1.0 POF	1773640000	10

Accessories and tools

Description	Type	Part No.
Cutting tool incl. positioning ferrule	KT 8	9002650000
Crimping tool for fiber optic cable Set	CZB LWL/POF	9020370000
Stripping tool for fiber optic cables	AM LWL/POF	9020360000
Polishing puck for fiber optic cables	PS LWL/POF	9020390000
Polishing abrasive for fiber optic cables, grit 1000	PB LWL/POF	9020400000
Contact removal tool	HDC-DW-M10*	1688220000

* Tool for removal of turned HD and fiber optic cable contacts

We recommend the HDC-HD 7- and 8-pin inserts:



Ordering data

Version	Type	Part No.	Qty.
Male	HDC-HD-7-SCM	1650570000	10
Male	HDC-HD-8-SCM	1650590000	10



Ordering data

Version	Type	Part No.	Qty.
Female	HDC-HD-7-BCM	1650580000	10
Female	HDC-HD-8-BCM	1650600000	10

... and the use of the ConCept HDC-HCM-10 modular system:



Ordering data

Version	Type	Part No.	Qty.
Male	HDC-HCM-10-SCM	1758400000	10



Ordering data

Version	Type	Part No.	Qty.
Female	HDC-HCM-10-BCM	1758410000	10

Of course, all HD and HDD inserts are suitable for fiber optic cable contacts. You can combine components as you wish!

Heavy Duty Connectors

Fabrication instructions for fiber optic cable contacts

HDC-C-HD-S-LWL and HDC-C-HD-B-LWL

Tools required

Description	Type	Part No.
Cutting tool incl. positioning ferrule	KT 8	9002650000
Crimping tool for fiber optic cable Set	CZB LWL/POF	9020370000
Stripping tool for fiber optic cables	AM LWL/POF	9020360000
Polishing puck for fiber optic cables	PS LWL/POF	9020390000
Polishing abrasive for fiber optic cables, grit 1000	PB LWL/POF	9020400000

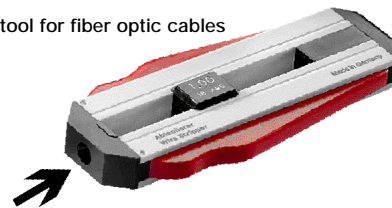
1. Cut POF* cable to required length using a cutter (we recommend KT8).
2. The end surface of the fiber of the 2.2 mm POF cable must be polished before being crimped onto the fiber optic cable contacts. Insert the end of the POF* cable into the polishing puck and polish on a smooth surface (e.g. glass polishing plate) using a polishing abrasive. After polishing, wipe away any polishing residue. The best optical attenuation values are obtained using the wet polishing method.
3. Strip the sheathing from 2.2 mm POF* cable min. 14 mm for socket contacts (HDC-C-HD-B-LWL), and min. 19 mm for pin contacts (HDC-C-HD-S-LWL).
4. Insert the stripped POF* cable fully into the socket or pin contact. After insertion, the fibers should project approx. 1 mm from the contact.



2.2 mm POF* cable

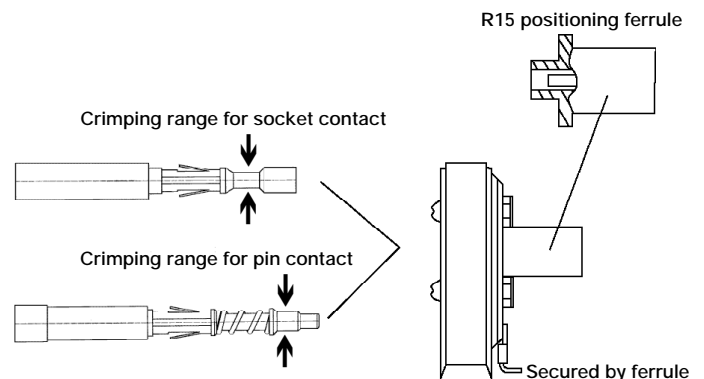
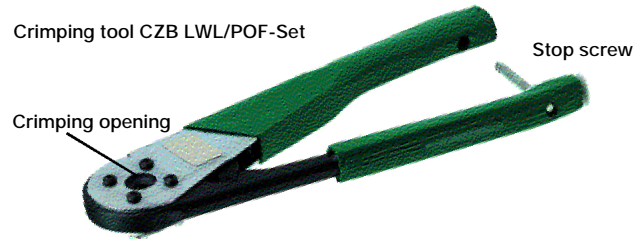


Stripping tool for fiber optic cables



for socket contact min. 14 mm
for pin contact min. 19 mm

5. Crimping the fiber: Place and secure the positioning ferrule in the corresponding holder on the crimping tool. Set the crimping dimension to 1.45 mm by means of the stop screw (check with test mandrel, diameter 1.45 mm, with crimping tool closed). Insert the fiber optic cable contact together with the POF* cable through the crimping opening into the positioning ferrule. Pressure on the contact causes the fiber to be brought into the correct position for crimping the fiber within the contact. Crimp the fiber with the contact until the crimping tool audibly releases.



*Polymer fiber optic

United States

Weidmuller Inc.
821 Southlake Blvd.
Richmond, Virginia 23236
Telephone: (800) 849-9343
Facsimile: (804) 379-2593
Email: info@weidmuller.com
Website: www.weidmuller.com

Canada

Weidmuller Ltd.
10 Spy Court
Markham, Ontario L3R-5H6
Telephone: (800) 268-4080
Facsimile: (905) 475-2798
Email: info1@weidmuller.ca
Website: www.weidmuller.ca

Mexico

Weidmuller, S.A. de C.V.
5 Sur No. 4311
Col. Huexotitla
72534 Puebla, Pue. Mexico
Telephone: (22) 37 2549
Facsimile: (22) 43 1981
Email: weidmull@acnet.net

