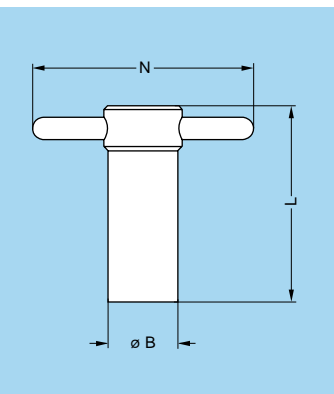
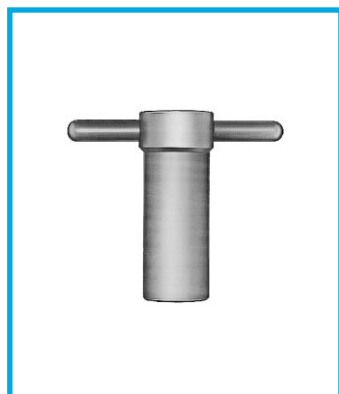


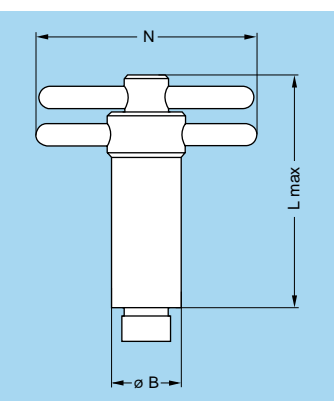
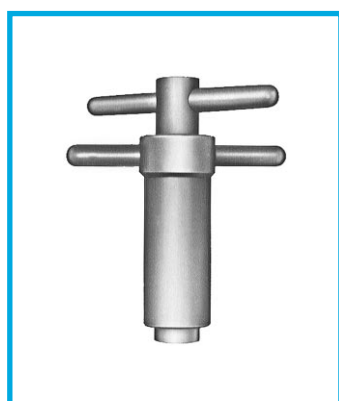
## Tooling



### DCG Spanners for hexagonal nuts

Part number	Series	Dim. (mm)			Part number of the nut
		B	L	N	
DCG.91.149.0TN	00	14	40	50	GEA.00.240.LN
DCG.91.161.1TN	0B	16	45	52	GEA.0S.240.LN
DCG.91.231.7TN	2B	23	62	68	GEA.2S.240.LN
DCG.91.282.2TN	3B	28	76	73	GEA.3S.240.LN

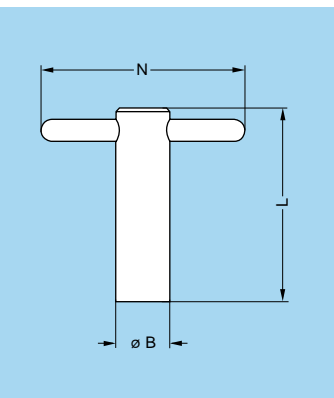
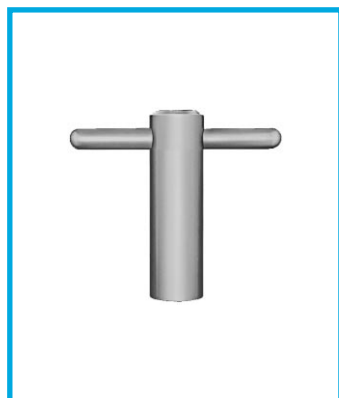
- Material: Blackened steel



### DCA Spanners for hexagonal nuts, with alignment of the sockets by the flats

Part number	Series	Dim. (mm)			Part number of the nut
		B	L	N	
DCA.91.149.0TN	00	14	65	50	GEA.00.240.LN
DCA.91.161.1TN	0B	16	73	52	GEA.0S.240.LN
DCA.91.231.7TN	2B	23	100	68	GEA.2S.240.LN
DCA.91.282.2TN	3B	28	120	73	GEA.3S.240.LN

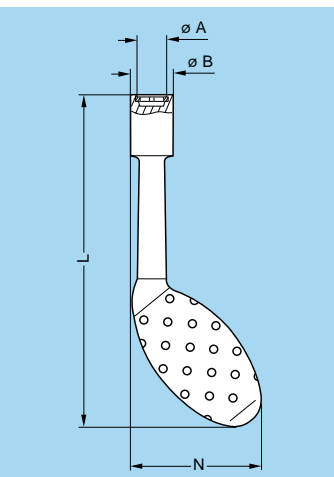
- Material: Blackened steel



### DCB Spanners type wrench for Model 1 round nuts

Part number	Series	Dim. (mm)			Part number of the nut
		B	L	N	
DCB.91.119.0TN	00	11	40	50	GEB.00.240.LN
DCB.91.131.1TN	0B	13	45	50	GEB.0S.240.LN
DCB.91.201.8TN	2B	20	62	65	GEB.2S.240.LN
DCB.91.242.2TN	3B	24	76	70	GEB.3S.240.LN

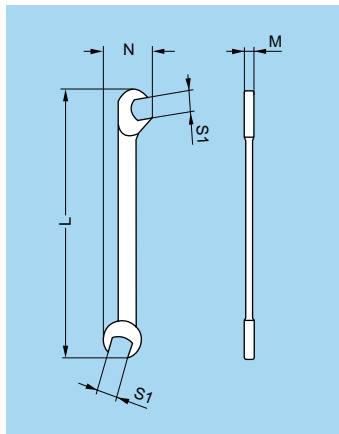
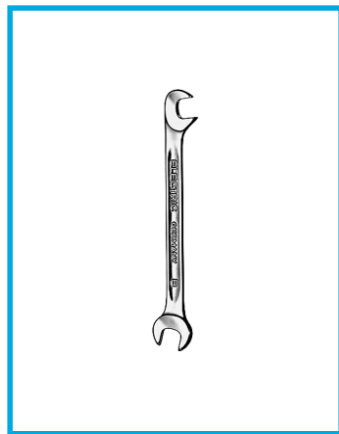
- Material: Blackened steel



### DCH Spanners for conical nut

Part number	Series	Dimensions (mm)				Part number of the nut
		A	B	L	N	
DCH.91.101.PN	00	10.1	12.8	124	48.3	GEC.00.240.LC
DCH.91.121.PN	0B	12.1	14.8	124	49.3	GEC.0S.240.LC
DCH.91.201.PN	2B	20.1	22.8	129	53.5	GEC.2S.240.LC

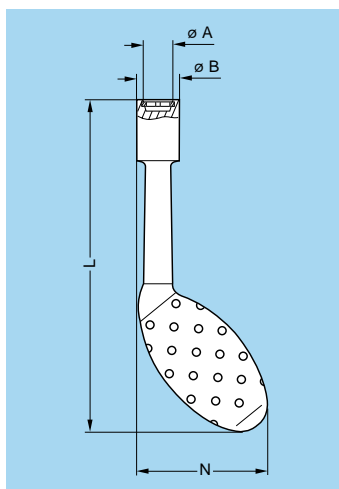
- Material: Dark grey polyurethane



## DCP Flat spanners for collet nut

Part number	Series	Dimensions (mm)			
		L	M	N	S1
DCP.99.045.TC	00	70	2	10.5	4.5
DCP.99.050.TC	00	78	2	12.6	5.0
DCP.99.055.TC	00	78	2	12.6	5.5
DCP.99.060.TC	00	78	2	12.6	6.0

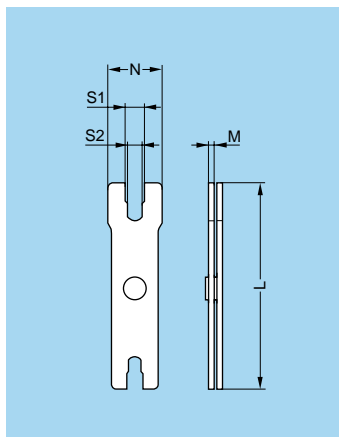
- Material: Chrome-plated steel



## DCH Spanners for notched nuts

Part number	Series	Dimensions (mm)				Part number of the nut
		A	B	L	N	
DCH.91.101.PA	00	10.1	12.8	124	48.3	GEG.00.240.LC
DCH.91.121.PA	0B	12.1	14.8	124	49.3	GEG.0S.240.LC
DCH.91.181.PA	0K	18.1	22.8	129	53.1	GEG.0E.240.LC
DCH.91.201.PA	2B	20.1	22.8	129	53.5	GEG.2S.240.LC
DCH.91.251.PA	2K	25.1	32.8	134	55.5	GEG.2E.240.LC

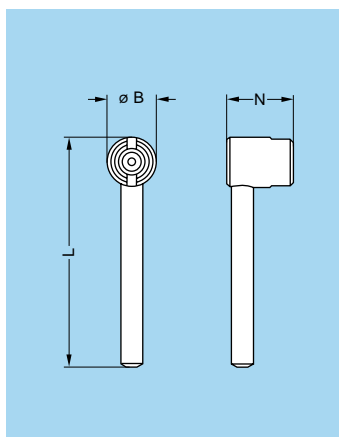
- Material: Blue polyurethane



## DCP Spanners for tightening collet nut

Part number	Series	Dimensions (mm)				
		L	M	N	S1	S2
DCP.91.001.TN	0B	95	2.5	21	8.1	7.1
DCP.91.023.TN	2B-2K	115	3.0	30	13.1	12.1
	3B-3K	115	3.0	35	15.1	14.1
DCP.91.045.TN	4B	130	3.5	40	21.2	20.2
	5B	130	3.5	45	31.2	30.2

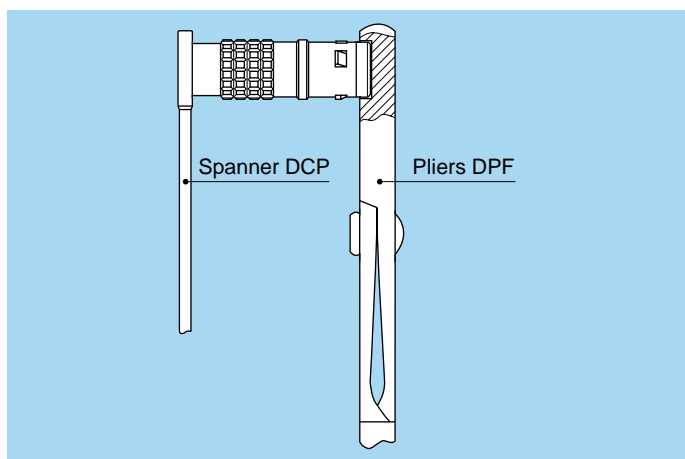
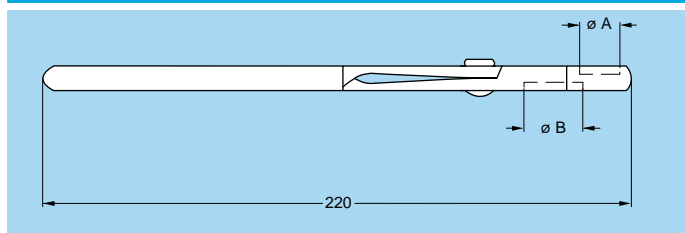
- Material: Blackened steel



## DCL Spanners for securing straight plug with two latching tabs while tightening collet nut

Part number	Series	Dimensions (mm)		
		B	L	N
DCL.91.105.0TK	00	10	45	13.5

- Material: Blackened steel

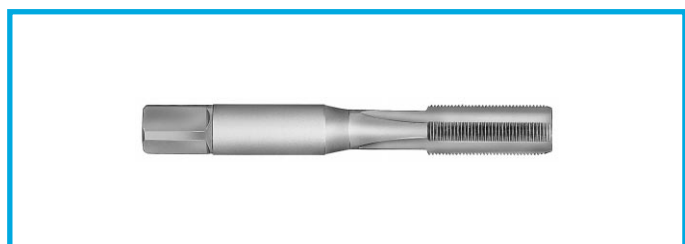


## DPF Pliers for assembling plugs (series K)

Part number	Series	Dimensions (mm)	
		A	B
DPF.91.001.TA	0K	10	–
DPF.91.023.TA	2K	15	–
	3K	–	18

## Example for use

The plug end must be held in the pliers while the nut is tightened with the spanner.



## DTA Taps

Part number	Series	Thread
DTA.99.700.5Z	00	M7 x 0.5
DTA.99.900.6Z	0B	M9 x 0.6

Fig. 1

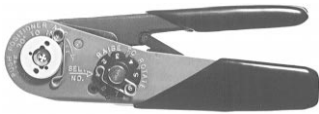
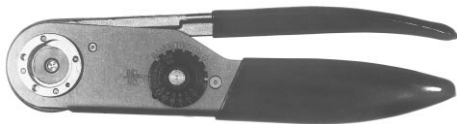


Fig. 2



## Manual crimping tools

Supplier	Part number	
	contact ø 0.7-0.9-1.3 (Fig. 1)	contact ø 1.6-2.0 (Fig. 2)
LEMO	DPC.91.701.V <sup>1)</sup>	DPC.91.101.A <sup>2)</sup>
DANIELS	MH860 <sup>1)</sup>	AF8 <sup>2)</sup>
BALMAR	23-000	55-000
BUCHANAN	616336 <sup>1)</sup>	615708 <sup>2)</sup>

<sup>1)</sup> According to specification MIL-C-22520/7-01.

<sup>2)</sup> According to specification MIL-C-22520/1-01.



male



female

These positioners are suitable for use with manual crimping tool according to the MIL-C-22520/7-01 standard.

## DCE Positioners for crimp contacts ø 0.7, 0.9 and 1.3 mm

	Connector				Positioners part number	
	Type		ø Contact	Conductor AWG	For male contact	For female contact
	F1	F2				
2B 2K	96A	92A	0.9	20-22-24	DCE.91.092.BVC	DCE.91.092.BVM
	96C	92C	0.7	22-24-26	DCE.91.072.BVC	DCE.91.072.BVM
	96E	92E				
	96J	92J				
3B 3K	97C	93B	0.9	20-22-24	DCE.91.093.BVC	DCE.91.093.BVM
	97E	93E				
	–	87E				
	97J	93J	0.7	22-24-26	DCE.91.073.BVC	DCE.91.073.BVM
	97R	93R				
	96X	92X				
	–	87R				
4B 4K	–	95D	1.3	18-20	DCE.91.134.BVC	DCE.91.134.BVM
	–	93E	1.3 <sup>1)</sup>	18-20	DCE.91.133.BVCY	DCE.91.133.BVM
			0.9	20-22-24	DCE.91.094.BVC	DCE.91.094.BVM
			1.3	18-20	DCE.91.134.BVC	DCE.91.134.BVM
	97F	–	0.9	20-22-24	DCE.91.094.BVC	DCE.91.094.BVM
	97R	93R	0.9	20-22-24	DCE.91.094.BVC	DCE.91.094.BVM
	97L	93L				
	98L	94L				
	97T	93T	0.7	22-24-26	DCE.91.074.BVC	DCE.91.074.BVM
	–	88E				
	99H	–				
	98E	94E				

**Note:** <sup>1)</sup> Arrangement with special contact length, special positioners are required.



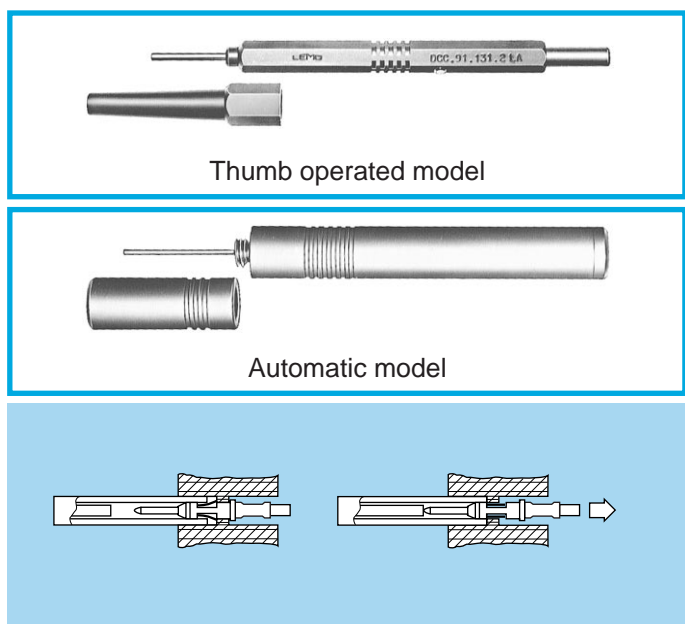
These turrets are suitable for use with manual crimping tool according to the MIL-C-22520/1-01 standard.

**Note:** A wide variation of strand number and diameter combinations are quoted as being AWG, some of which do not have a large enough cross section to guarantee a crimp as per either MIL-C-22520/1 or /7-01. Our technical department is at your disposal to study and propose a solution to all your specific problems.

## DCE Turrets for crimp contacts ø 1.6 and 2.0 mm

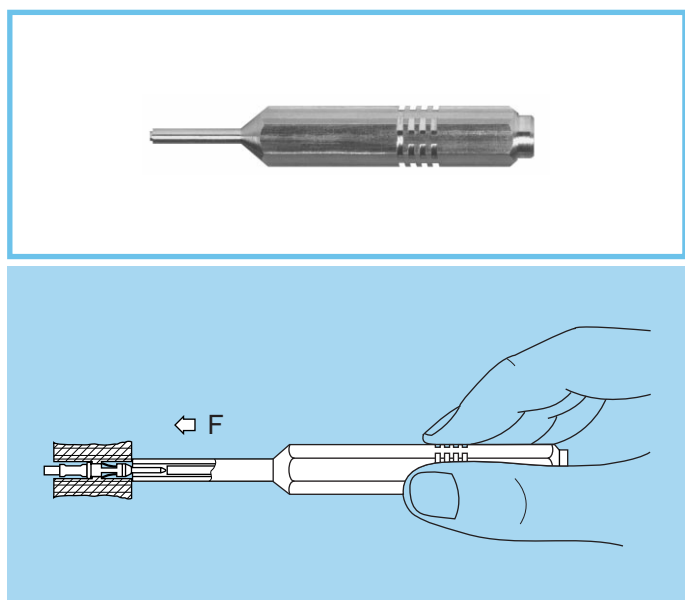
		Connector		Turret part number		
		Type	ø Contact	Conductor AWG	For male contact	For female contact
		F1 F2				
5B 5K	—	94B	2.0	12-14-16	DCE.91.205.BVCM	DCE.91.205.BVCM
	—	956	2.0 <sup>1)</sup>	12-14-16	DCE.91.203.BVCM	DCE.91.204.BVCM
			1.6 <sup>1)</sup>	14-16-18	DCE.91.164.BVCM	DCE.91.162.BVCM
	—	90C	1.6 <sup>1)</sup>	14-16-18		

**Note:** <sup>1)</sup> Arrangement with special contact length, turret from another series are required.



## DCC Extraction tools for crimp contacts

FO Contact Types		ø A Contact	Extractor	
			Thumb operated model	Automatic model
<b>2B 2K</b>	96A 92A	0.9	DCC.91.090.5LA	DCF.91.090.2LT
	96C 92C	0.7	DCC.91.070.5LA	DCF.91.070.2LT
	96E 92E			
	96J 92J			
<b>3B 3K</b>	97C 93B	0.9	DCC.91.090.5LA	DCF.91.093.5LT
	97E 93E	0.7		
	– 87E			
	97J 93J			
	97R 93R		DCC.91.070.5LA	DCF.91.073.5LT
	96X 92X			
<b>4B 4K</b>	– 87R	1.3		
	– 95D		DCC.91.131.5LA	DCF.91.133.5LT
	– 93E		DCC.91.131.5LA	DCF.91.133.5LT
		0.9	DCC.91.090.5LA	DCF.91.093.5LT
	97F –	1.3	DCC.91.131.5LA	DCF.91.133.5LT
		0.9	DCC.91.090.5LA	DCF.91.093.5LT
	97R 93R	0.9	DCC.91.090.5LA	DCF.91.093.5LT
	97L 93L			
	98L 94L			
	97T 93T			
	– 88E		DCC.91.070.5LA	DCF.91.073.5LT
	99H –			
	98E 94E			
<b>5B 5K</b>	– 94B	2.0	DCC.91.202.5LA	DCF.91.203.5LT
	– 956	2.0	DCC.91.202.5LA	DCF.91.203.5LT
		1.6	DCC.91.162.5LA	DCF.91.163.5LT
	– 90C	1.6	DCC.91.162.5LA	DCF.91.163.5LT



## DCK Retention testing tools for crimp contacts ø 0.7, 0.9 and 1.3 mm

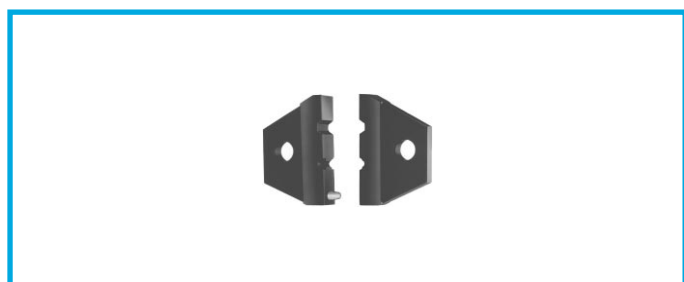
Contact ø A	Test force (N)	Testing tool part number	
		For male contact	For female contact
0.7	14	DCK.91.071.4LRC	DCK.91.071.4LRM
0.9	14	DCK.91.091.4LRC	DCK.91.091.4LRM
1.3	25	DCK.91.132.5LRC	DCK.91.132.5LRM

## Tools for type C Coaxial Contacts



### DPE Crimping tool with die

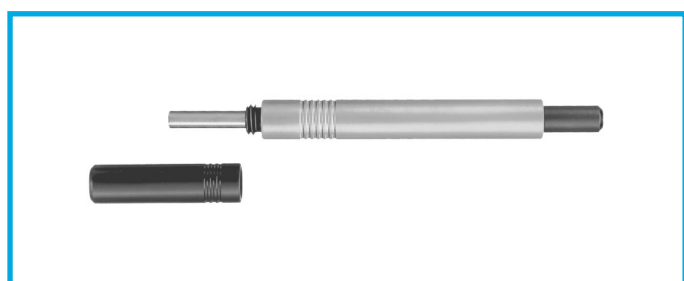
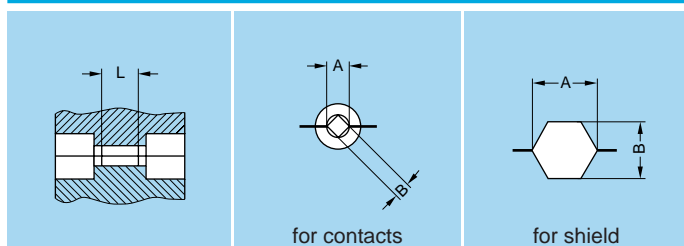
Part number	Cable group
DPE.99.103.1K	2
DPE.99.103.8K	1, 3



### DPN Dies

Part number	Cable group	Die dimensions					
		For contacts			For shield		
		A	B	L	A	B	
DPN.99.103.1K	2	1.09	0.77	2.0	3.10	2.70	
DPN.99.103.8K	1, 3	1.09	0.77	2.0	3.80	3.30	

- Die material: Blackened steel



### DCC Extractors

Part number	Cable group
DCC.91.384.5LA	1, 2, 3

## Fibre Optic Tooling

We propose a complete range of tools for fibre optic connector cable assembly. Some tools are specific to each fibre optic contact type. When selecting necessary tooling, make sure you identify correctly the contact type used in the selected product.



### DRV Complete workstation for fibre optic contact

#### Description

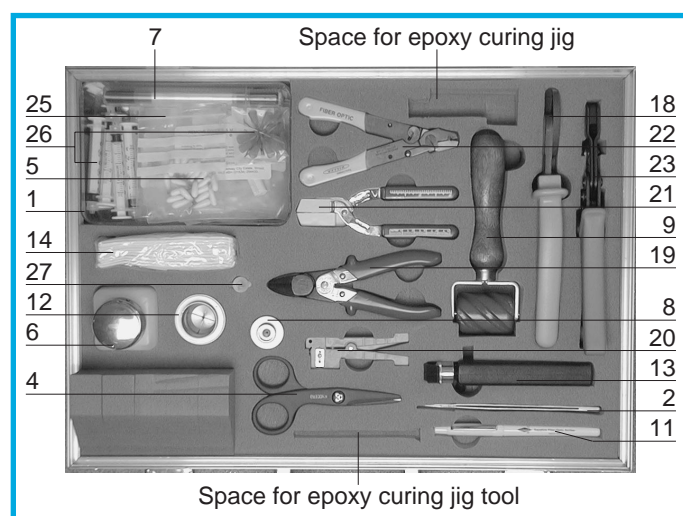
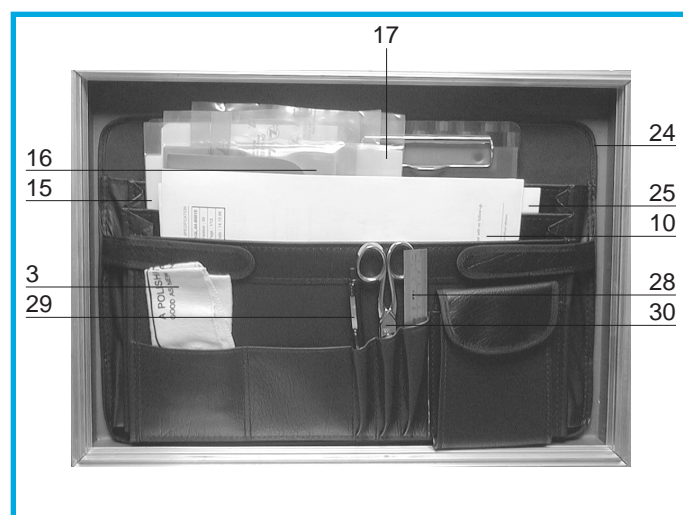
Comprehensive range of tools for terminating both single-mode and multi-mode fibres. Includes specific tools for F2 and F4 fibre optic contacts. Detachable termination case lid for use as polishing platform during field termination. Rugged but aesthetically pleasing termination case which is ideal for field use or in-house terminations. Curing oven and inspection microscope shall be ordered separately.

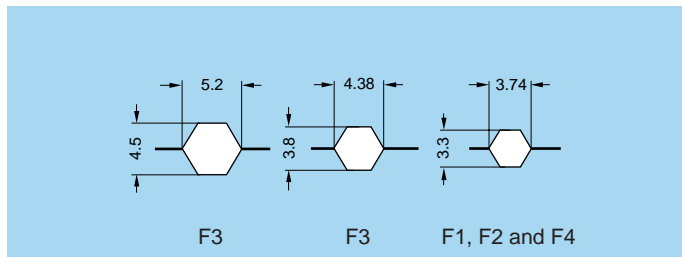
Part number	Contact type
DRV.91.CF2.PN	F2, F4

### Workstation Contents

Part Number	Description	Quantity	Number
WST.BT.175.55PT	Plastic box	1	1
WST.BR.150.8AC	Tweezers	1	2
WST.CH.252.5SR	Lint-free Cloth	1	3
WST.CS.125.CE	Kevlar cutters	1	4
WST.CO.020.52	Cotton bud (sachet of 20 pcs)	1	5
WST.DS.290.PT	Alcohol dispenser (supplied empty)	1	6
DCC.91.312.5LA	Extraction tool for F1 and F2 contacts	1	7
DCS.91.G20.0C	Microscope adapter for F2 and F4 cont.	1	8
WST.ME.354.8R	Epoxy mixer and pad	1	9
DOC.FO.CF2.0000	Terminating instructions for F2 contacts	1	10
WST.OU.135.10SZ	Fibre scribe	1	11
DCS.91.F24.LC	Polishing tool for F2 and F4 contacts	1	12
WST.OU.452.5MN	Large cable stripper	1	13
WST.PA.105.5525	Cleaning tissues	1	14
WST.PA.012.AOJ	Lapping film 12µm (yellow)	20	15
WST.PA.005.AOM	Lapping film 5µm (brown)	20	16
WST.PA.001.AOV	Lapping film 1µm (green)	20	17
WST.PN.210.AS	Armoured cable cutter	1	18
WST.PN.145.AR	Cable cutter	1	19
WST.PN.103.0PG	Outer jacket stripper	1	20
WST.PN.203.CR	Buffer coating stripping tool	1	21
WST.PN.102.3CR	Primary coat stripper	1	22
DPE.99.524.337K	Crimp tool	1	23
WST.PL.322.5PT	Polishing platform	1	24
WST.RE.353.EPO	Epoxy resin + safety instructions	10	25
WST.SE.305.8PH	Syringe with needle	10	26
WST.TU.191.LN	Fibre shield for F2 and F4 contacts	4	27
WST.RG.150.AZ	Steel rule 6"	1	28
WST.SY.135.PA	Fibre length marking pen	1	29
WST.CS.155.AZ	Scissors	1	30

**Note:** The interior of the case is fitted with pre-formed plastic foam to provide secure storage of the tools.





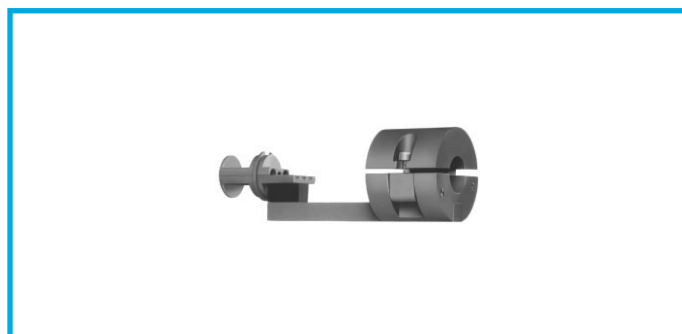
## DPE Crimping tool for fibre optic contact

### Description

Crimping tool for capturing KEVLAR® strand on contact body

Part number	Contact type
DPE.99.524.337K <sup>1)</sup>	F1, F2, F3, F4

**Note:** <sup>1)</sup> Included in the LEMO F2 workstation.



## DCS Epoxy curing jig

### Description

Curing positioning jig specifically designed to ease assembly of the 3K.93C series with associated camera cable

Part number	Contact type
DCS.91.F12.3LA	F2

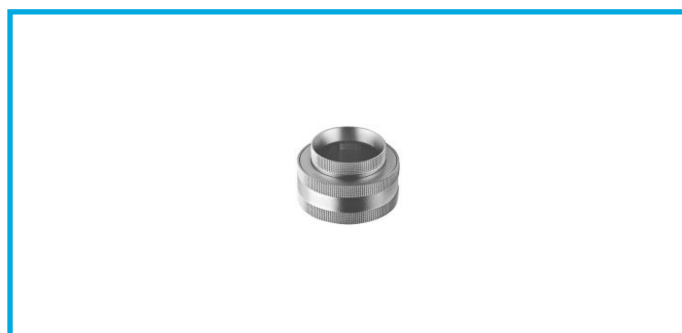


## WST Epoxy curing oven

### Description

Oven for assisting in curing epoxy

Part number	Voltage	Contact type
WST.FR.220.VA	220 volts	F1, F2, F3, F4
WST.FR.110.VA	110 volts	



## DCS Polishing tool for fibre optic contacts

### Description

Precision spring loaded tool for polishing terminated fibre optic contacts.

Part number	Contact type
DCS.91.F13.LC	F1, F3
DCS.91.F24.LC <sup>1)</sup>	F2, F4

**Note:** <sup>1)</sup> Included in the LEMO F2 workstation.



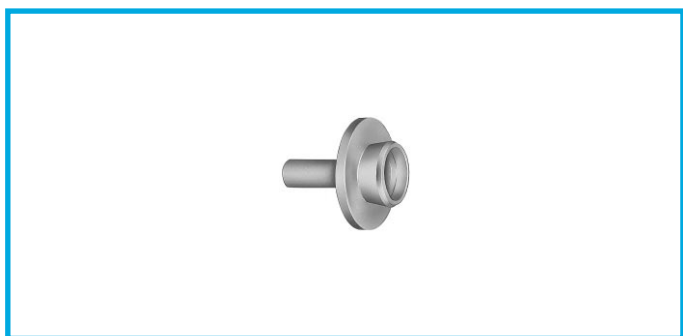


## WST Fibre Inspection Microscope

### Description

Microscope to assist in viewing termination operations and verifying fibre end finish.  
See adaptor below.

Part number	Contact type
WST.FB.G10.4N	F1, F2, F3, F4



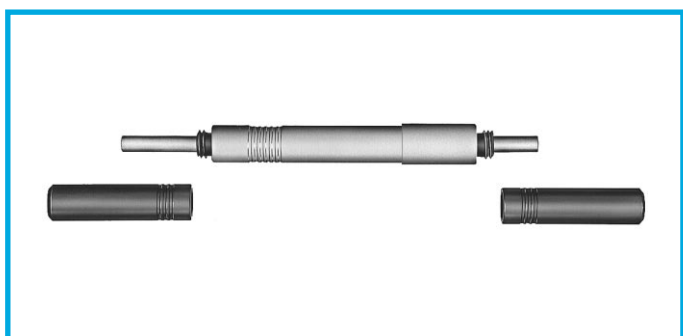
## DCS Microscope adaptor for fibre optic contacts

### Description

Adaptor for final inspection of fibre optic contacts.  
To be used with microscope WST.FB.G10.4N

Part number	Contact type
DCS.91.G24.0C	F1, F3
DCS.91.G20.0C <sup>1)</sup>	F2, F4

**Note:** <sup>1)</sup> Included in the LEMO F2 workstation.



## DCC Extractor for fibre optic contact

### Description

One side of the tool is the extractor for the F1 or F2 contact. The other threaded end is for installation/extraction of the F2 contact alignment device

Part number	Contact type
DCC.91.312.5LA <sup>1)</sup>	F1, F2

**Note:** <sup>1)</sup> Included in the LEMO F2 workstation.

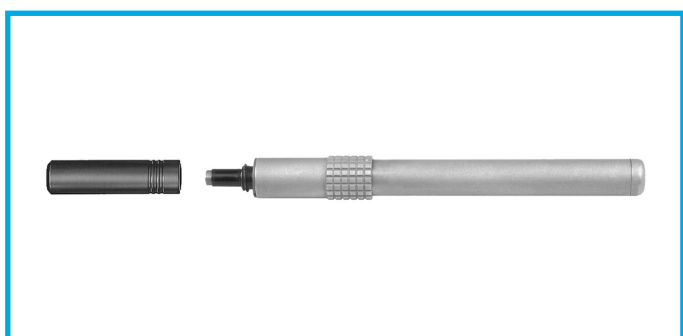


## DCS F2 contact alignment device installation/extraction tool

### Description

Simple tool with two threaded end for installation/extraction of the F2 contact alignment device

Part number	Contact type
DCS.F2.035.PN	F2



## DCC F4 contact alignment device extraction tool

### Description

This tool is for extraction/reinstallation of the F4 contact alignment device. It is necessary for contact cleaning only

Part number	Contact type
DCC.F4.125.7LA	F4



## DCS Cleaning tool

### Description

Used for maintenance cleaning. The tool is made with an alcohol spongy reservoir (supplied empty).  
16 dry cotton buds are included.

The threaded end allows extraction/reinstallation of the F2 contact alignment device.

Part number	Contact type
DCS.91.F23.LA	F2



## WST Cleaning kit

### Description

Kit that includes 2 cotton buds one of them moistened with alcohol

Part number	Contact type
WST.KI.125.34	F1, F2, F3, F4

# AMEYA360

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