

1	2	3	4	5	6	7	8	9	10	11	12
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Bill of materials:

ITEM NO.	CMC PART NUMBER	DESCRIPTION	Part number manufacturer	Amount	QTY.
1	M5-2321-4112	Plug Male 6+PE	Amphenol C016 30H006 110 10		1
2	M5-2321-6112	Plug male 4+screen	ODU S12K0C-P04PPL0-8500		1
3	-	Cable marking M9-1120-50xx	Printed tape	<40mm	1
4	M5-2811-0505	Cable screened 4x0,5mm2 + PE	Ölflex -FD855 CP 27607	L	1
5	M5-3000-0108	Shrinkable tubing 12,7/6,4 Blue	TE - CGPT-12.7/6.4-6-SP	50mm	1
6	M5-2321-6223	Protective Cap	ODU 715645097003945x1		1
7	M5-3000-0207	Shrinkable tubing 12,7-6,4 transparent	TE - CGPT-12.7/6.4-X-SP	40mm	1
8	M5-2022-0001	Chord anchorage 6-9mm	Cable grips minehead 108388-LS316		1

Alternatives:

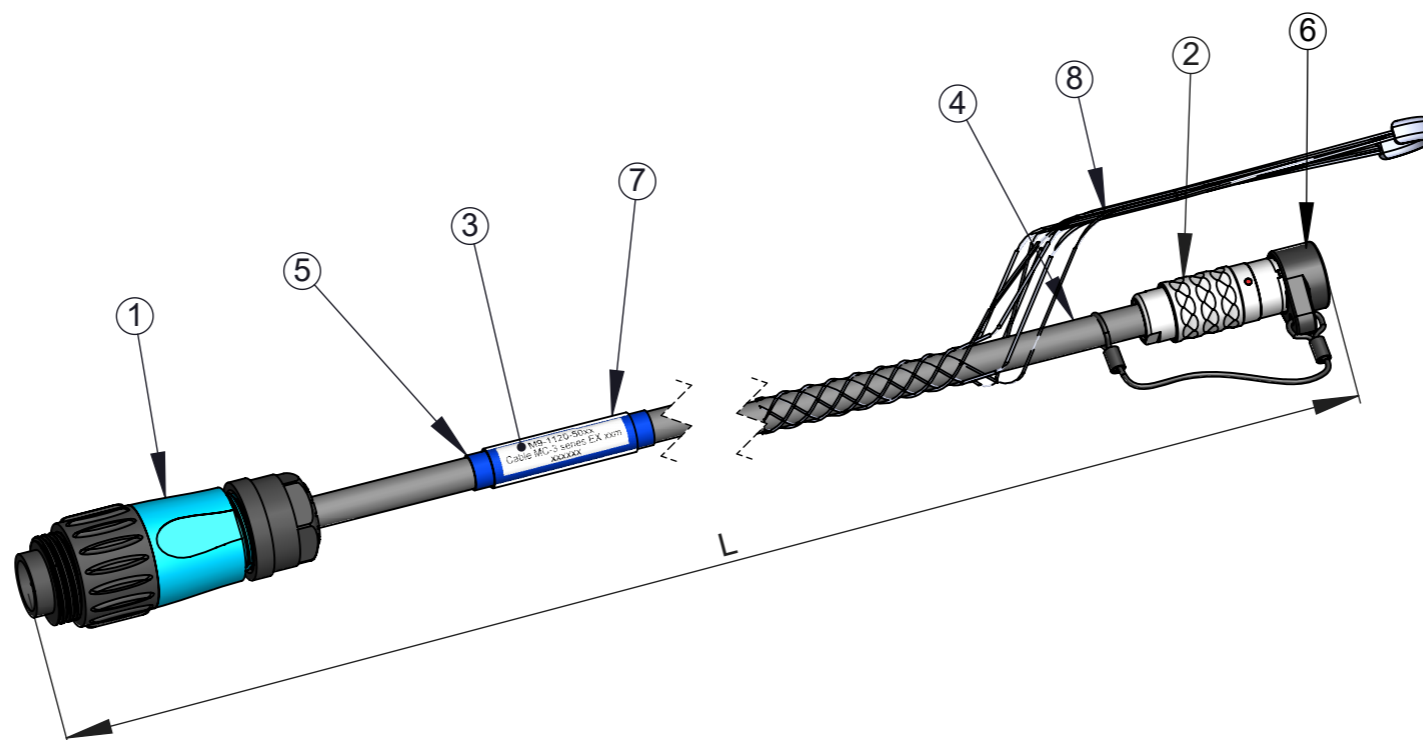
ITEM NO.	Part number manufacturer	Description	Manufacturer
4	030958	EFK 300 CP	Faber
4	0023303	Ölflex PETRO FD 865 CP	Lapp Kabel
4	CF78.UL.05.05	Chainflex control cable CF78.UL	IGUS
4	CF891.05.05	Chainflex control cable CF891	IGUS

ODU plug fitted to alternative cable:


ITEM NO.	CMC PART NUMBER	Part number manufacturer
2	M5-2321-6112	ODU S12K0C-P04PPL0-8500
2	M5-2321-6112	ODU S12K0C-P04PPL0-8500
2	M5-2321-6112	ODU S12K0C-P04PPL0-8500
2	M5-2321-6113	ODU S12K0C-P04PPL0-6500


REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	Initial drawing	2011-06-16	ASK
B	-Lid removed (both ends) -Assembl. order revised for Amphenol plug (P2) -Chord anchorage changed - strip replaced by cable clamp(P2)	2011-06-29	ASK
C	Part-no/Length table added. Drawing-no changed from M9-1120-5050 to M9-1120-50xx	2011-09-24	ASK
D	BOM limited to major parts (detailed on p2 and p3), chord anchorage added, and marking moved to Amphenol connector side	2011-10-05	ASK
E	Changed cabletype from 3x0,75mm2 + PE to 4x0,5mm2 + PE. Detailed info on p2 and p3.	2012-09-11	ASK
F	Changed cabel from Ölflex to Helukabel. Ölflex cable stands as an quality reference	2013-02-14	PAS
G	Changed spec for cable (removed Ölflex alternative) and connector (Collet-nut changed from type 90 to 85) to suit used cable-type	2013-09-30	ASK
H	Blue shrink-tube reintroduced due to customer requirement (see page 2)	2013-01-16	ASK/RS
I	Re-introduced cable-type to Ölflex type 27607. Collet-nut changed from type 85 to 90. Updated/corrected info for Blue shrink-tube	2014-05-23	ASK
J	Zone A2 item no. 5 M9-2831-1005 changed to M5-2811-0505	2014-11-20	Archana / MO
K	Added M5-2321-6223	2015-09-10	MO
L	Updated with part number M5-3000-0207, M5-3000-0117, blue tube shown on drawing page 1 and some minor adjustment with pictures and text	2017-06-13	JD
M	Changed picture in step 10 on page 4. Changed screen mounting for ODU connector on page 5. Changed ODU part no.	2017-08-22	CF
N	Changed ODU connector from Black to Chrome due to RoHs compliance. Corrected Amphenol supplier part no.	2017-10-04	CF
O	Added alternative cables to item 4	2023-02-03	DLO
P	Added ODU plug which fit with alternative cable	11.04.2023	JD



CMC Part-no	L	S=stock R=on request
M9-1120-5001	1	R
M9-1120-5003	3	R
M9-1120-5005	5	R
M9-1120-5010	10	S
M9-1120-5015	15	S
M9-1120-5020	20	S
M9-1120-5025	25	S
M9-1120-5030	30	R
M9-1120-5040	40	R
M9-1120-5050	50	R
M9-1120-5060	60	R
M9-1120-5065	65	R





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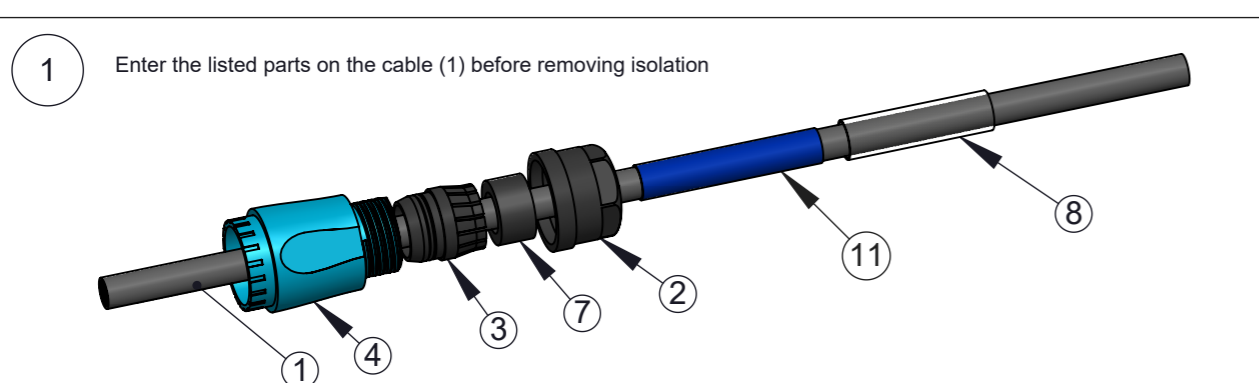
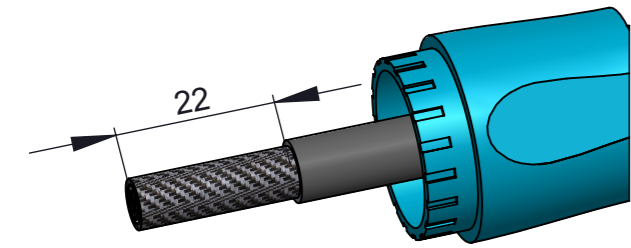
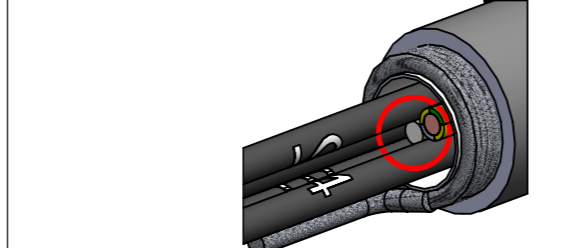
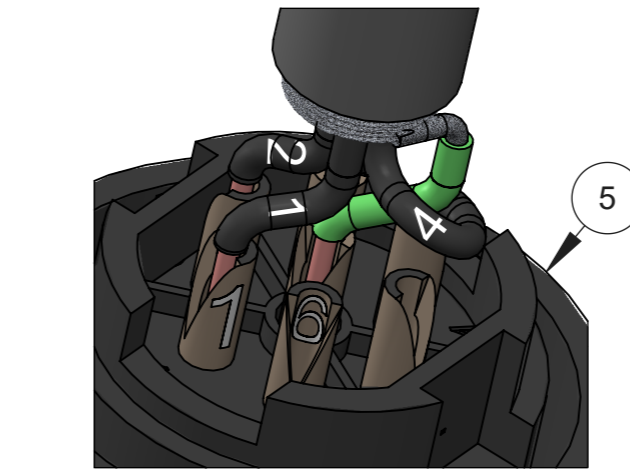
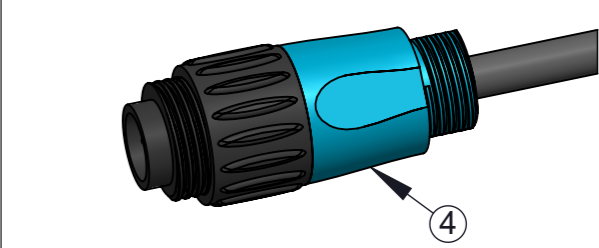
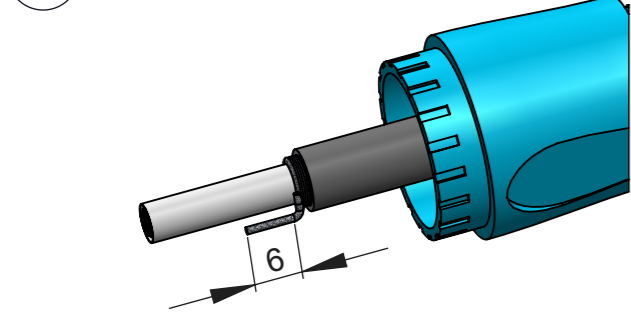
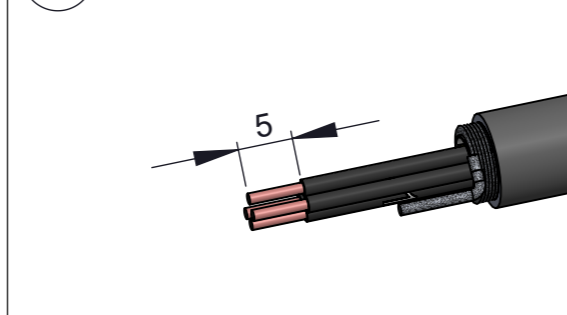
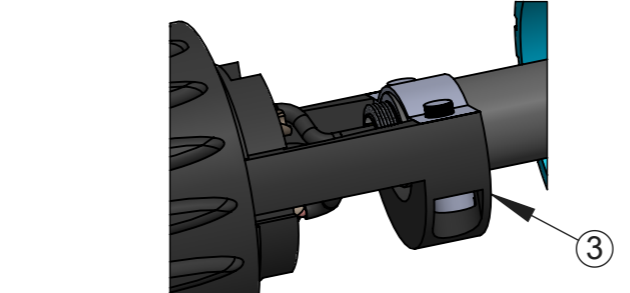
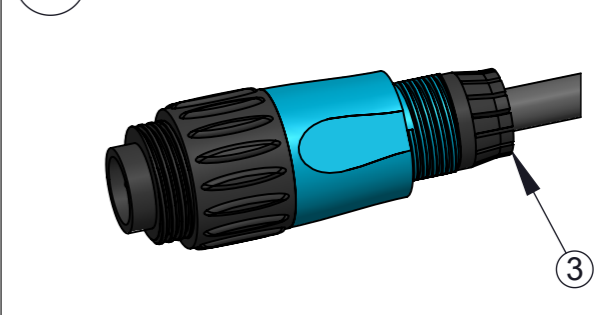
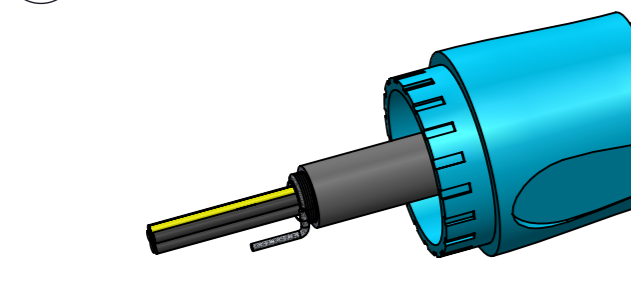
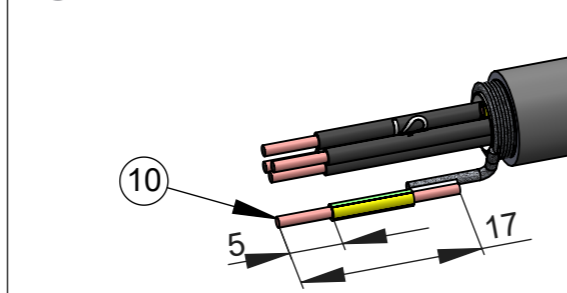
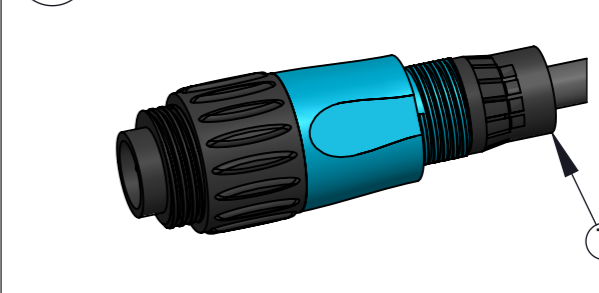
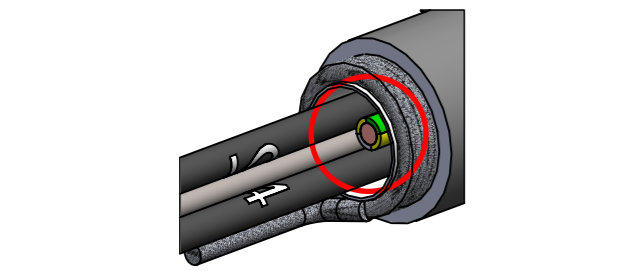
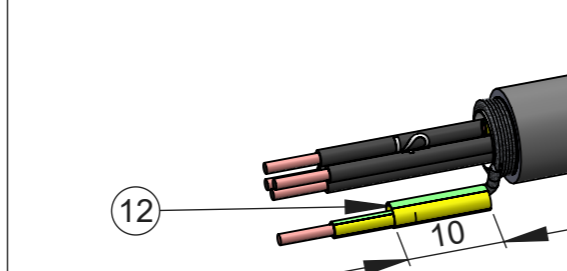
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		MODIFIED BY: PAS	DATE: 11.04.2023
DRAWING NUMBER:	DESIGNED BY: Cavotec	APPROVED BY: JD	DATE: 11.04.2023


PART DESCRIPTION:
Cable MC-3 series EX ODU/AMP Ölflex FD855 4G

MATERIAL:
-

FINISH: -	INFO:	MASS (g):
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DIMENSIONS IN mm UNLESS OTHERWISE STATED		TOLERANCING: ±5mm	SCALE: 1:2	SHEET SIZE: A3	SHEET: 1 OF 5
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	1	2	3	4	5	6	7	8	9	10	11	12																																																																								
A	<p>1 Enter the listed parts on the cable (1) before removing isolation</p> 						<table border="1"> <thead> <tr> <th>ITEM NO.</th> <th>CMC PART NUMBER</th> <th>Description</th> <th>Part number supplier</th> <th>Amount</th> <th>QTY.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>M5-2811-0505</td> <td>Cable screened 4x0,5mm2 + PE</td> <td>Ölflex -FD855 CP 27607</td> <td>L</td> <td>1</td> </tr> <tr> <td>2</td> <td>M5-2321-41xx</td> <td>Cable-nut</td> <td>Amphenol C016 30H006 110 10</td> <td></td> <td>1</td> </tr> <tr> <td>3</td> <td>M5-2321-41xx</td> <td>Clamping ring</td> <td>Amphenol C016 30H006 110 10</td> <td></td> <td>1</td> </tr> <tr> <td>4</td> <td>M5-2321-41xx</td> <td>Back Shell</td> <td>Amphenol C016 30H006 110 10</td> <td></td> <td>1</td> </tr> <tr> <td>5</td> <td>M5-2321-4112</td> <td>Plug Male 6+PE</td> <td>Amphenol C016 30H006 110 10</td> <td></td> <td>1</td> </tr> <tr> <td>7</td> <td>M5-2321-41xx</td> <td>Gasket</td> <td>Amphenol C016 30H006 110 10</td> <td></td> <td>1</td> </tr> <tr> <td>8</td> <td>M5-3000-0207</td> <td>Shrinkable tubing 12,7-6,4 transparent</td> <td>TE - CGPT-12.7/6.4-X-SP</td> <td>40mm</td> <td>1</td> </tr> <tr> <td>9</td> <td>-</td> <td>Cable marking M9-1120-50xx</td> <td>Printed tape</td> <td><40mm</td> <td>1</td> </tr> <tr> <td>10</td> <td>M5-2821-3027</td> <td>Wire 0,75 Y/G</td> <td>H05 V-K 0,75mm2</td> <td>22mm</td> <td>1</td> </tr> <tr> <td>11</td> <td>M5-3000-0108</td> <td>Shrinkable tubing 12,7/6,4 Blue</td> <td>TE - CGPT-12.7/6.4-6-SP</td> <td>50mm</td> <td>1</td> </tr> <tr> <td>12</td> <td>M5-3000-0117</td> <td>Shrinkable tube 3-1, Yellow-Green</td> <td>CGPT-R-3/1-col code</td> <td>10mm</td> <td>1</td> </tr> </tbody> </table>						ITEM NO.	CMC PART NUMBER	Description	Part number supplier	Amount	QTY.	1	M5-2811-0505	Cable screened 4x0,5mm2 + PE	Ölflex -FD855 CP 27607	L	1	2	M5-2321-41xx	Cable-nut	Amphenol C016 30H006 110 10		1	3	M5-2321-41xx	Clamping ring	Amphenol C016 30H006 110 10		1	4	M5-2321-41xx	Back Shell	Amphenol C016 30H006 110 10		1	5	M5-2321-4112	Plug Male 6+PE	Amphenol C016 30H006 110 10		1	7	M5-2321-41xx	Gasket	Amphenol C016 30H006 110 10		1	8	M5-3000-0207	Shrinkable tubing 12,7-6,4 transparent	TE - CGPT-12.7/6.4-X-SP	40mm	1	9	-	Cable marking M9-1120-50xx	Printed tape	<40mm	1	10	M5-2821-3027	Wire 0,75 Y/G	H05 V-K 0,75mm2	22mm	1	11	M5-3000-0108	Shrinkable tubing 12,7/6,4 Blue	TE - CGPT-12.7/6.4-6-SP	50mm	1	12	M5-3000-0117	Shrinkable tube 3-1, Yellow-Green	CGPT-R-3/1-col code	10mm	1
ITEM NO.	CMC PART NUMBER	Description	Part number supplier	Amount	QTY.																																																																															
1	M5-2811-0505	Cable screened 4x0,5mm2 + PE	Ölflex -FD855 CP 27607	L	1																																																																															
2	M5-2321-41xx	Cable-nut	Amphenol C016 30H006 110 10		1																																																																															
3	M5-2321-41xx	Clamping ring	Amphenol C016 30H006 110 10		1																																																																															
4	M5-2321-41xx	Back Shell	Amphenol C016 30H006 110 10		1																																																																															
5	M5-2321-4112	Plug Male 6+PE	Amphenol C016 30H006 110 10		1																																																																															
7	M5-2321-41xx	Gasket	Amphenol C016 30H006 110 10		1																																																																															
8	M5-3000-0207	Shrinkable tubing 12,7-6,4 transparent	TE - CGPT-12.7/6.4-X-SP	40mm	1																																																																															
9	-	Cable marking M9-1120-50xx	Printed tape	<40mm	1																																																																															
10	M5-2821-3027	Wire 0,75 Y/G	H05 V-K 0,75mm2	22mm	1																																																																															
11	M5-3000-0108	Shrinkable tubing 12,7/6,4 Blue	TE - CGPT-12.7/6.4-6-SP	50mm	1																																																																															
12	M5-3000-0117	Shrinkable tube 3-1, Yellow-Green	CGPT-R-3/1-col code	10mm	1																																																																															
B																																																																																				
C	<p>2 Cut the outer insulation (22mm)</p> 			<p>6 Cut the support wire towards the inner screen</p> 			<p>10 Solder the wires to the contact insert: Wire no: Contact insert no: 1 - 1 2 - 2 3 - 3 4 - 4 Screen - GND (center)</p>  <p>Numbers on contact pins are for illustration purpose, not actually shown on pin</p>			<p>12 Fasten the back-shell to the contact insert</p> 																																																																										
D																																																																																				
E	<p>3 Split the screen, and twist it towards the outer insulation cut. Length approx. 6mm</p> 			<p>7 Cut the wire insulations (5mm)</p> 			<p>11 Assemble the Cable-clamp. Clamp tightens on the outer insulation</p> 			<p>13 Slide the clamping-ring into the back-shell</p> 																																																																										
F	<p>4 Cut the inner insulation towards the twisted screen.</p> 			<p>8 Solder an additional yellow/green wire to the screen. Y/G wire cut of in step 5 can be used.</p> 			<p>14 Slide the gasket into the clamping-ring</p> 																																																																													
G																																																																																				
H	<p>5 Cut the yellow/green wire towards the inner screen, do not need to isolate the wire</p> 			<p>9 Shrink the yellow/green shrink-tube over the yellow/green wire and screen. Approx. 10mm</p> 																																																																																
I																																																																																				



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PART NUMBER: M9-1120-50xx	PART REVISION: P	DRAWN BY: ASK	DATE: 16.06.2015
		MODIFIED BY: PAS	DATE: 11.04.2023
DRAWING NUMBER:	DESIGNED BY: Cavotec	APPROVED BY: JD	DATE: 11.04.2023

PART DESCRIPTION:
Cable MC-3 series EX ODU/AMP Ölflex FD855 4G

MATERIAL:
-

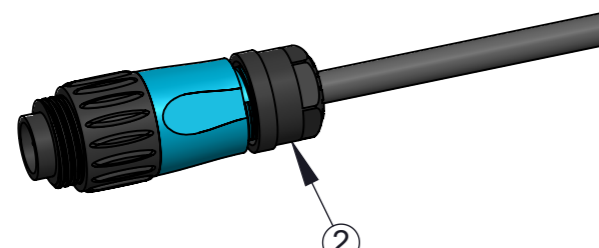
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DIMENSIONS IN mm UNLESS OTHERWISE STATED	TOLERANCING: ±5mm	SCALE: 1:3
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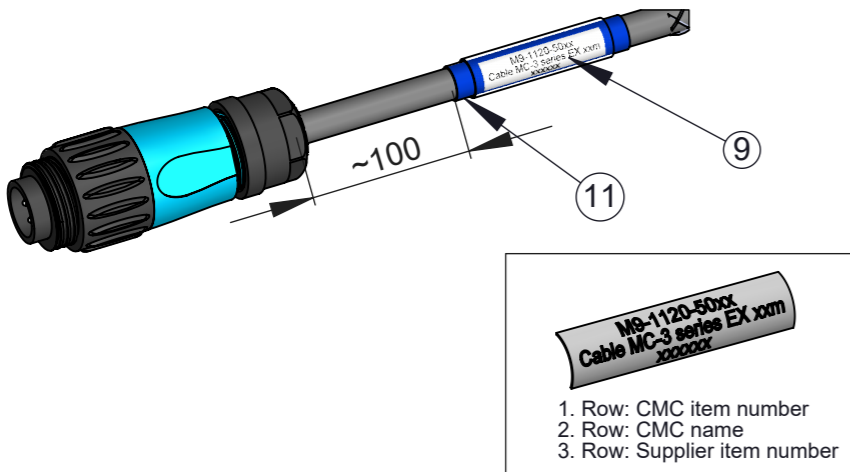
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ITEM NO.	CMC PART NUMBER	DESCRIPTION	Part number supplier	Amount	QTY.
2	M5-2321-41xx	Cable-nut	Amphenol C016 30H006 110 10		1
8	M5-3000-0207	Shrinkable tubing 12,7-6,4 transparent	TE - CGPT-12.7/6.4-X-SP	40mm	1
9	-	Cable marking M9-1120-xxxx	Printed tape	<40mm	1
11	M5-3000-0108	Shrinkable tubing 12,7/6,4 Blue	TE - CGPT-12.7/6.4-6-SP	50mm	1

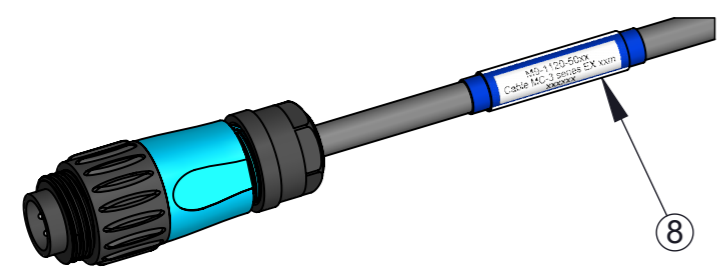
15 Tighten the back-nut to the back-shell




16 Shrink the blue shrink-tube approx. 100mm from the back-nut, and add the Cable marking on the blue shrink-tube.



17 Shrink the clear shrink-tube over the Cable marking





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M9-1120-50xx


P

PART NUMBER:	PART REVISION:	DRAWN BY:	DATE:
M9-1120-50xx	P	ASK	16.06.2015
DRAWING NUMBER:	DESIGNED BY:	MODIFIED BY:	DATE:
	Cavotec	PAS	11.04.2023
		APPROVED BY:	DATE:
		JD	11.04.2023

PART DESCRIPTION:
Cable MC-3 series EX ODU/AMP Ölflex FD855 4G

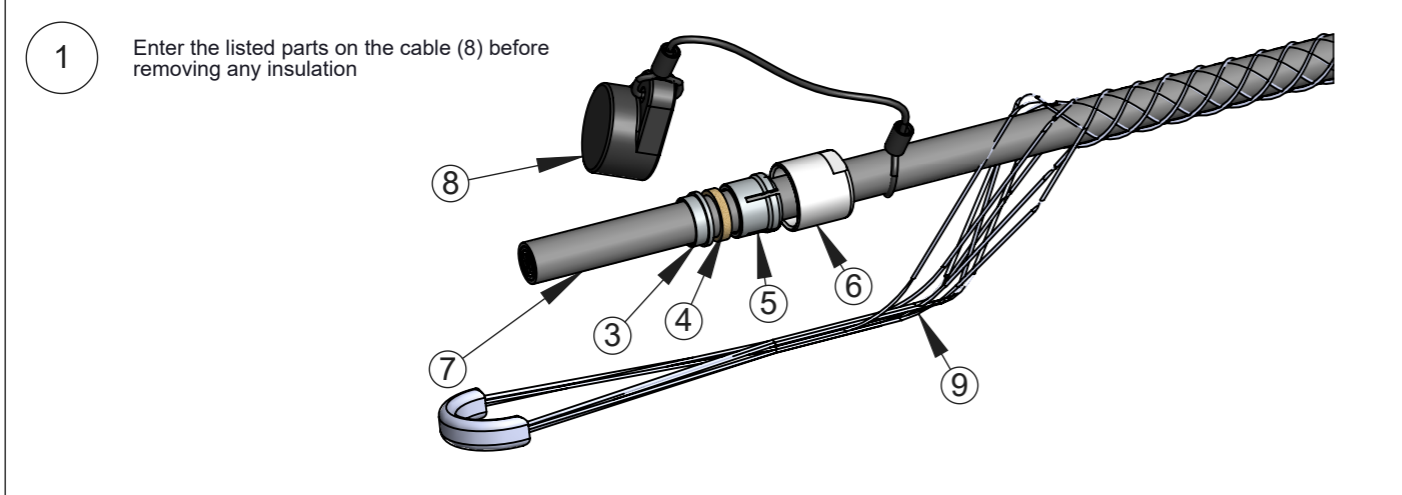
MATERIAL:
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FINISH:	INFO:	MASS (g):
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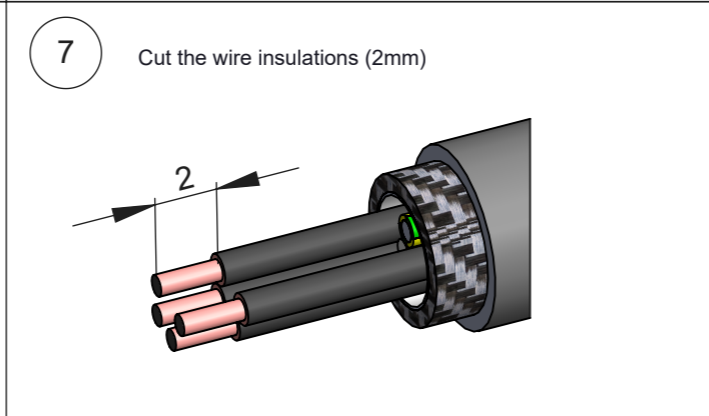
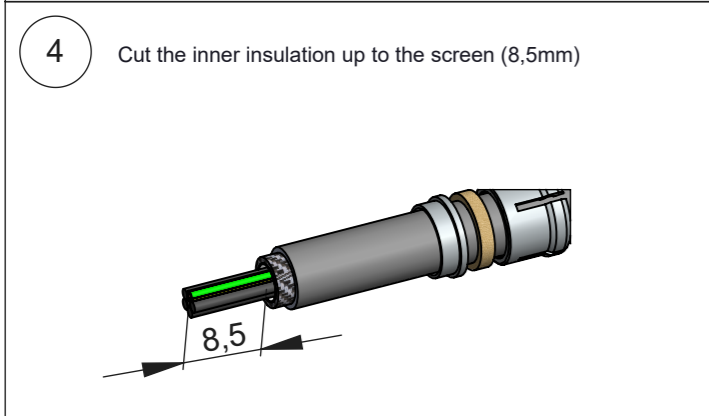
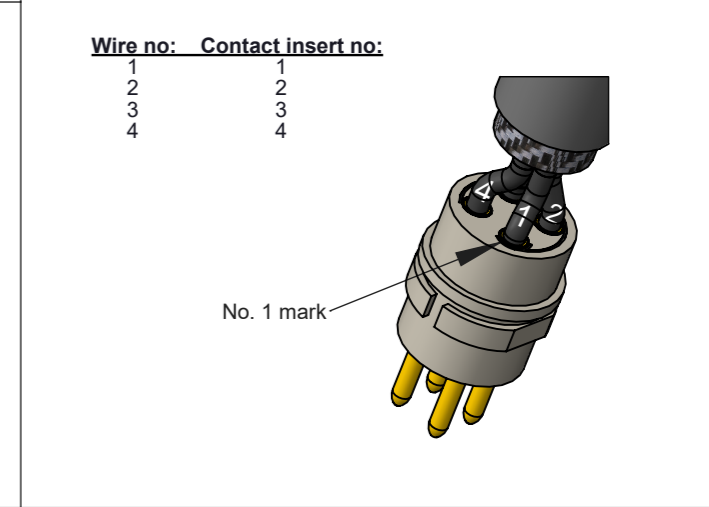
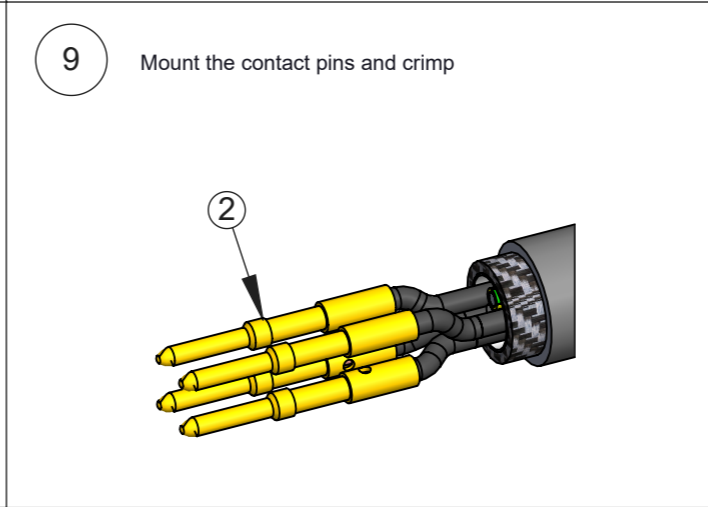
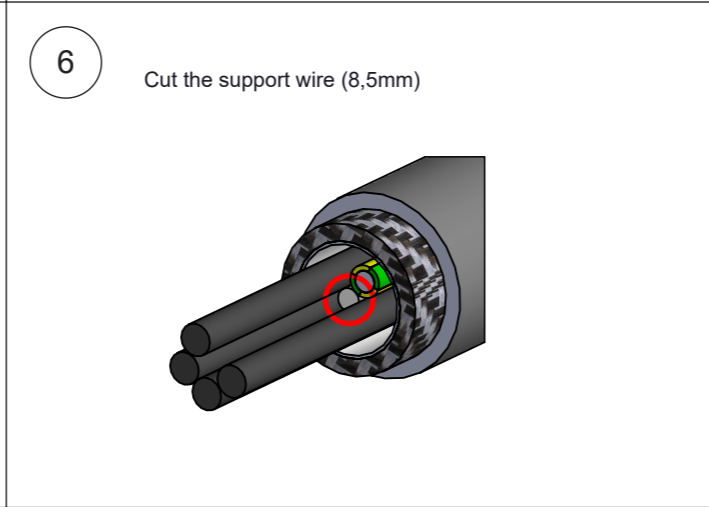
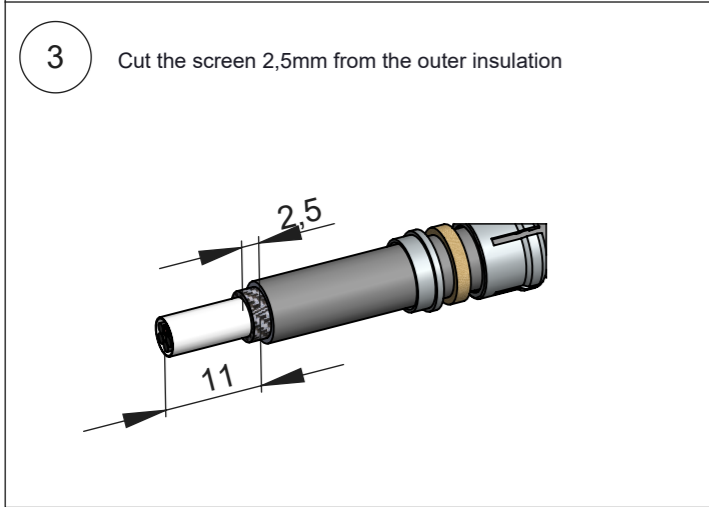
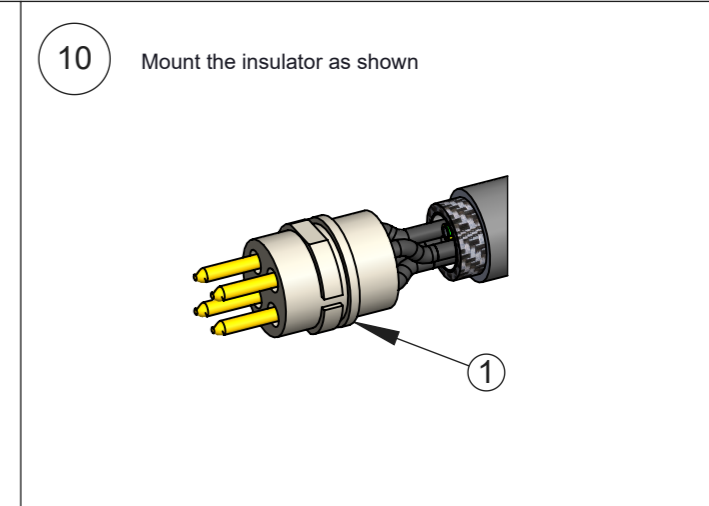
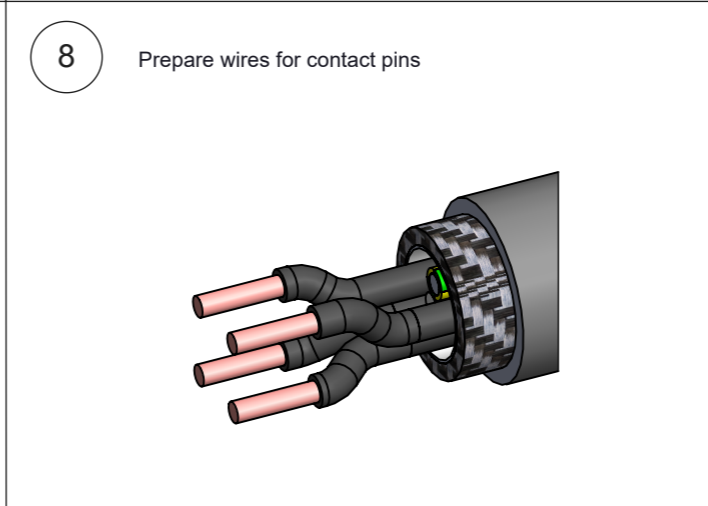
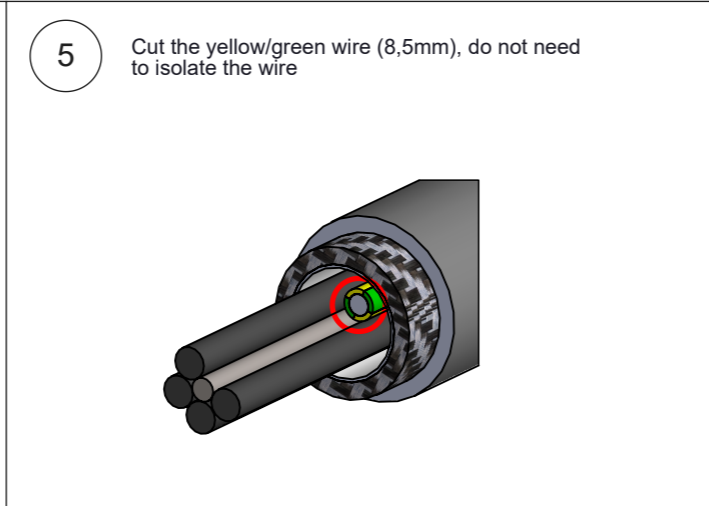
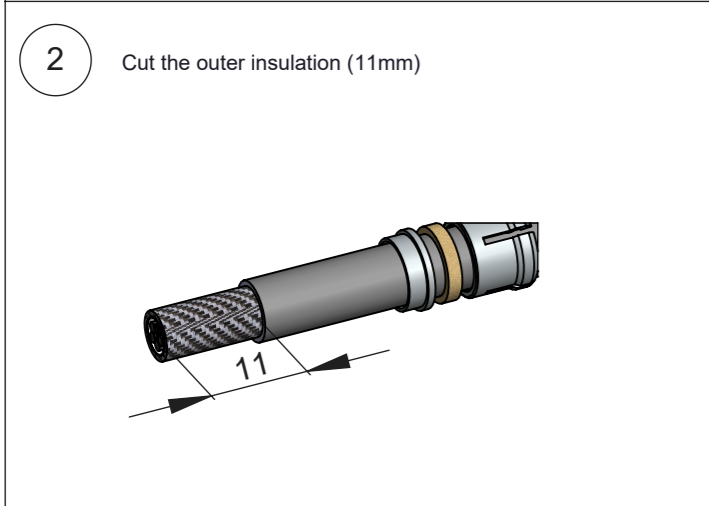
DIMENSIONS IN mm UNLESS OTHERWISE STATED		TOLERANCING: ±5mm	SCALE: 1:3	SHEET SIZE: A3	SHEET: 3 OF 5
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1 2 3 4 5 6 7 8 9 10 11 12

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ITEM NO.	CMC PART NUMBER	DESCRIPTION	Part number supplier	QTY.
1	M5-2321-6112	Insulator	ODU S12K0C-P04PPL0-8500	1
2	M5-2321-6112	Crimp contact pin	ODU S12K0C-P04PPL0-8500	4
3	M5-2321-6112	Shield ring	ODU S12K0C-P04PPL0-8500	1
4	M5-2321-6112	Seal-ring	ODU S12K0C-P04PPL0-8500	1
5	M5-2321-6112	Collet	ODU S12K0C-P04PPL0-8500	1
6	M5-2321-6112	Back-nut	ODU S12K0C-P04PPL0-8500	1
7	M5-2811-0505	Cable Olflex FD855CP 4x0,5mm2+PE	27607	1
8	M5-2321-6223	Protective Cap	ODU 715645097003945x1	1
9	M5-2022-0001	Chord anchorage 6-9mm	Cable grips minehead 108388-LS316	1



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PART NUMBER: M9-1120-50xx	PART REVISION: P	DRAWN BY: ASK	DATE: 16.06.2015
		MODIFIED BY: PAS	DATE: 11.04.2023
DRAWING NUMBER:	DESIGNED BY: Cavotec	APPROVED BY: JD	DATE: 11.04.2023

PART DESCRIPTION:
Cable MC-3 series EX ODU/AMP Ölflex FD855 4G

MATERIAL:
-

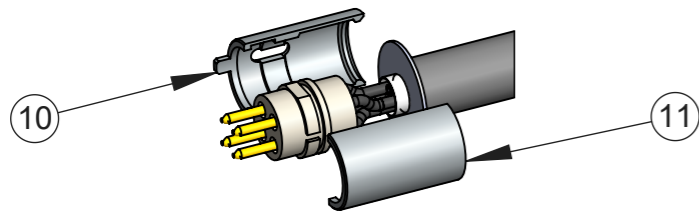
FINISH: -	INFO:	MASS (g):
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DIMENSIONS IN mm UNLESS OTHERWISE STATED		TOLERANCING: ±5mm	SCALE: 1:3	SHEET SIZE: A3	SHEET: 4 OF 5
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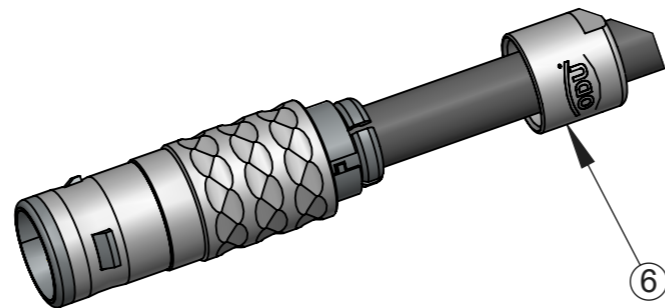
1 2 3 4 5 6 7 8 9 10 11 12

A
B
C
D
E
F
G
H
I

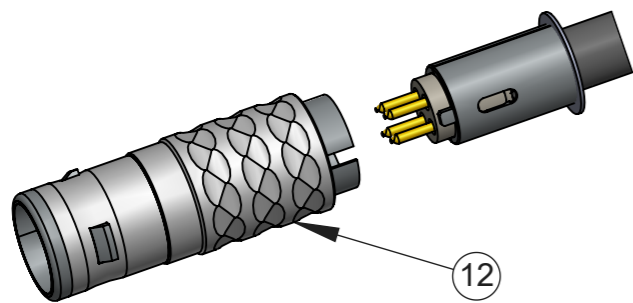
11 Bend cable screen outwards and assemble half-shells in their defined place



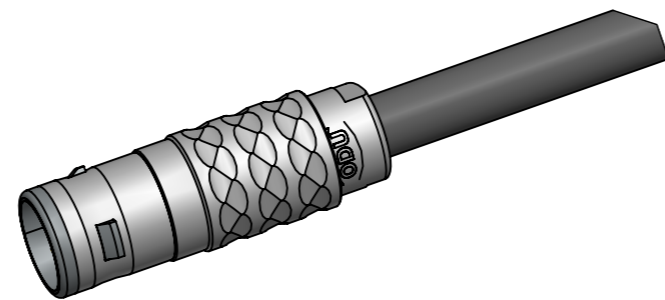
14 Tighten the back-nut to the housing



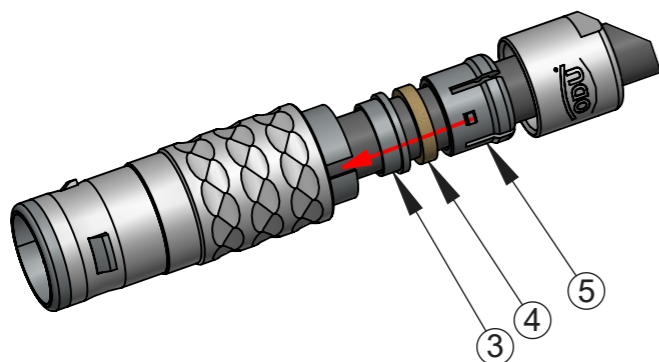
12 Assemble housing in it's defined place



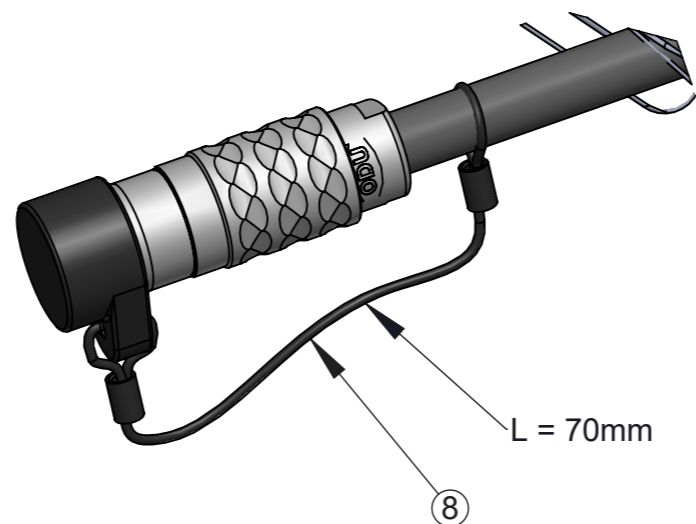
15 Assembled connector



13 Slide the shield ring, seal-ring and collet in the housing. Collet guide tap to fit with housing track



16 Fix the protective cap to the connector.



ITEM NO.	CMC PART NUMBER	DESCRIPTION	Part number supplier	QTY.
3	M5-2321-6112	Shield ring	ODU S12K0C-P04PPL0-8500	1
4	M5-2321-6112	Seal-ring	ODU S12K0C-P04PPL0-8500	1
5	M5-2321-6112	Collet	ODU S12K0C-P04PPL0-8500	1
6	M5-2321-6112	Back-nut	ODU S12K0C-P04PPL0-8500	1
8	M5-2321-6223	Protective Cap	ODU 715645097003945x1	1
9	M5-2022-0001	Chord anchorage 6-9mm	Cable grips minehead 108388-LS316	1
10	M5-2321-6112	Half shell1	ODU S12K0C-P04PPL0-8500	1
11	M5-2321-6112	Half-shell2	ODU S12K0C-P04PPL0-8500	1
12	M5-2321-6112	Housing	ODU S12K0C-P04PPL0-8500	1

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PART NUMBER: M9-1120-50xx	PART REVISION: P	DRAWN BY: ASK	DATE: 16.06.2015
DESIGNED BY: Cavotec	APPROVED BY: JD	MODIFIED BY: PAS	DATE: 11.04.2023

PART DESCRIPTION:
Cable MC-3 series EX ODU/AMP Ölflex FD855 4G

MATERIAL:
-

FINISH:
-

INFO:
-

MASS (g):
-

DIMENSIONS IN mm UNLESS OTHERWISE STATED

TOLERANCING:
±5mm

SCALE:
1:3

SHEET SIZE:
A3

SHEET:
5 OF 5