

Backshells for D38999 III series

Connector type	Type of cable accessories	Cable accessories part number
GJB599 III series Crimp connector	No cable clamp and shield accessories	1、M85069/14
	Cable clamp but no shield accessories	1、M85069/38
		2、M85069/39
		3、M85069/16
		4、M85069/91-** J (composite)
		5、M85069/92-** J (composite)
	Shield accessories but no cable clamp	1、M85069/20
		2、M85069/20-** J (composite)
		3、M85069/69
		4、M85069/88
		5、M85069/90
		6、D38999III-FJA00
		7、D38999III-FJA90
		8、D38999III-xxFJB00F
		9、D38999III-xxFJC00
		10、D38999III-xxFJE00
	Cable clamp and shield accessories	1、M85069/38-**NB
		2、M85069/18series
GJB599 III series Solder connector	No cable clamp and shield accessories	1、M85069/14
	cable clamp but no shield accessories	1、M85069/38H
		2、M85069/16H
		3、M85069/91H-** J (composite)
	Shield accessories but no cable clamp	1、M85069/20
		2、M85069/69
		3、M85069/88
		4、M85069/90
		5、D38999III-FJA00
		6、D38999III-FJA90
	Cable clamp and shield accessories	1、M85069/18series

How to order

Basic series	M85049/	38	15	W
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Type:

14-Grommet nut	16-90° angled quick clamp
20-Crimp ring adapter	38-Straight strain relief clamp
69-Shrink boot adapter	

Shell size:

09-11-13-15-17-19-21-23-25

Finsh:

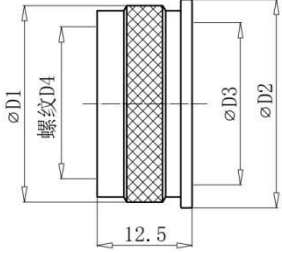
W:Olive drab cadmium

F: Nickel

S:Stainless steel

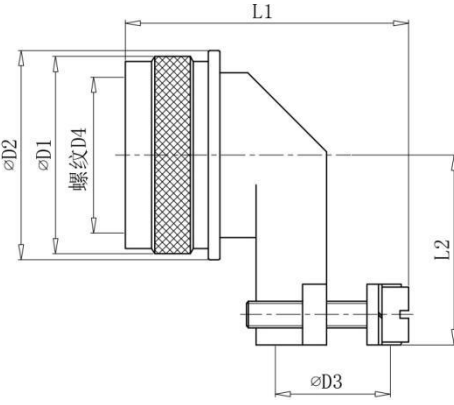
Backshells dimension

M85049/14-Grommet Nut

	Shell size	D1	D2	D3	Thread D4
	09	16.5	17.6	7.9	M12×1.0
	11	19.5	20.6	10.8	M15×1.0
	13	22.5	23.6	13.6	M18×1.0
	15	26.5	27.6	16.9	M22×1.0
	17	29.5	30.3	20.1	M25×1.0
	19	32.5	33.3	22.1	M28×1.0
	21	36.0	36.8	25.2	M31×1.0
	23	38.5	39.3	28.3	M34×1.0
	25	41.7	42.3	31.6	M37×1.0

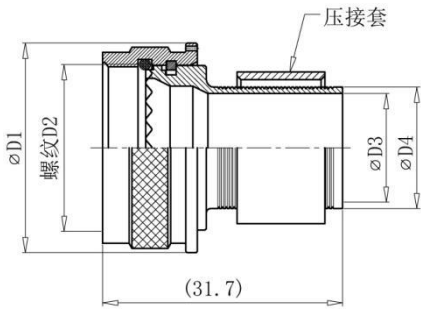
Anti-rotation and provides a good grommet-holding force for the crimp connectors when expensive and heavy backshells are not used. Such holding force is essential to hold the contacts and grommet in place when terminated with wire bundles.

M85049/16-90° cable clamp

	Shell size	D1	D2	D3	ThreadD4	L1 max	L2 max
	09	16.5	17.6	3.2~6.4	M12×1.0	29.0	25.0
	11	19.5	20.6	4.0~9.5	M15×1.0	32.0	26.0
	13	22.5	23.6	4.8~11.1	M18×1.0	33.5	27.5
	15	26.5	27.6	5.5~14.3	M22×1.0	36.5	31.0
	17	29.5	30.3	6.4~15.9	M25×1.0	38.5	32.5
	19	32.5	33.3	7.9~19.1	M28×1.0	41.5	34.0
	21	36.0	36.8	9.5~22.2	M31×1.0	44.5	34.5
	23	38.5	39.3	10.3~23.8	M34×1.0	46.0	36.5
	25	41.7	42.3	14.3~25.4	M37×1.0	48.0	43.5

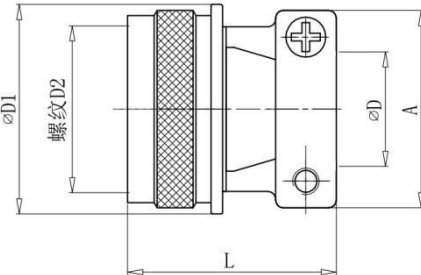
- A light weight clamp used for securing and “tidying up” cable into a desired direction.
- Anti-rotation

M85049/20-Crimp ring adapter

	Shell size	D1	Thread D2	D3	D4
	09	17.6	M12×1.0	6.55	8.81
	11	20.6	M15×1.0	8.63	12.65
	13	23.6	M18×1.0	10.90	12.95
	15	27.6	M22×1.0	14.10	16.00
	17	30.3	M25×1.0	17.25	19.30
	19	33.3	M28×1.0	20.40	22.61
	21	36.8	M31×1.0	23.60	25.65
	23	39.3	M34×1.0	26.40	28.70
	25	42.3	M37×1.0	28.40	30.53

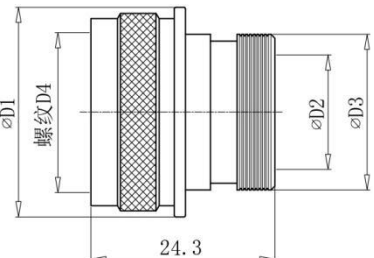
Many cable terminations where heat shrink boots are used will require provision for terminating the screens too. It is achieved in this type of backshell through a ring, which can be crimped to the backshell body holding the screens in between.

M85049/38-Straight strain relief clamp

	Shell size	D1	Thread D2	D	A	L
	09	17.6	M12×1.0	2.49~5.94	20.0	23.6
	11	20.6	M15×1.0	3.87~5.94	22.0	24.6
	13	23.6	M18×1.0	4.83~8.33	24.5	26.7
	15	27.6	M22×1.0	6.60~11.61	26.0	27.7
	17	30.3	M25×1.0	7.19~15.60	30.5	27.7
	19	33.3	M28×1.0	8.26~16.10	35.0	29
	21	36.8	M31×1.0	8.71~17.73	38.0	30.4
	23	39.3	M34×1.0	9.68~20.90	41.0	32.4
	25	42.3	M37×1.0	10.62~21.66	44.0	34.4

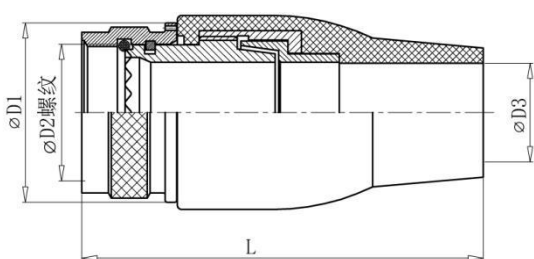
- Another cost effective cable holding option when environmental protection is not a concern, and weight savings is a major consideration.
- Secures and “tidying up” the cable and also provides good strain relief at the termination area.

M85049/69-Shrink Boot Adapter

	Shell size	D1	D2	D3	Thread D4
	09	16.5	6.9	11.0	M12×1.0
	11	19.5	9.8	14.0	M15×1.0
	13	22.5	12.8	17.6	M18×1.0
	15	26.5	16.3	20.5	M22×1.0
	17	29.5	19.4	24.0	M25×1.0
	19	32.5	21.6	26.4	M28×1.0
	21	36.0	25.0	30.0	M31×1.0
	23	38.5	27.7	33.2	M34×1.0
	25	41.7	20.3	36.2	M37×1.0

- A good solution when the unshielded cables are terminated with heat shrink boots. It has a groove where the boot lip can be held which provides good grip apart from sufficient space inside for the cable looping.
- Using the heat shrink boot is one way of providing environmental protection and strain relief to cable termination. Using a suitable adapter is essential here to ensure the reparability

M85049/01-Grounded

	Shell size	D1	Thread D2	D3	L
	09	17.6	M12×1.0	7.0	53.0
	11	20.6	M15×1.0	10.0	53.0
	13	23.6	M18×1.0	13.0	53.0
	15	27.6	M22×1.0	15.0	73.0
	17	30.3	M25×1.0	18.0	73.0
	19	33.3	M28×1.0	20.0	73.0
	21	36.8	M31×1.0	23.5	73.0
	23	39.3	M34×1.0	26.5	73.0
	25	42.3	M37×1.0	29.0	73.0

Anti-rotation and press the shielding net . It can seal the grommet and provide the connection function of the shielding net and the backshell to ensure the environmental resistance and electromagnetic shielding performance of the connector, and can not hold the cable

M85049/18-**N backshell

Basic series	M85049/	18-	17	N	A	03
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Type:

Straight EMI/RFI Backshell

Shell size:

09-11-13-15-17-19-21-23-25

Finsh:

B:Olive green cadmium S:Stainless steel

F: Nickel

FT: Cadmium over aluminum

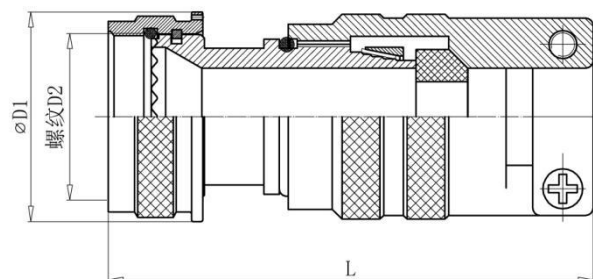
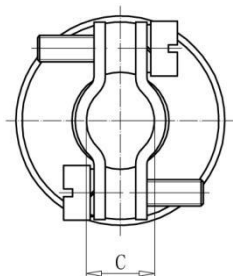
TA: Titanium

Entry size:

See table 1 and 2

Length:

See table 3



- Ideal choice for heavy duty cabling solutions in harsh environment situations where electromagnet and radio frequency noises are to be isolated.
- Accommodates both individual and overall shielding.

Table 1

Shell size	Entry size code	D1	Thread D2
09	01~02	16.5	M12×1.0
11	01~03	19.5	M15×1.0
13	02~04	22.5	M18×1.0
15	02~05	26.5	M22×1.0
17	02~06	29.5	M25×1.0
19	03~07	32.5	M28×1.0
21	03~08	36.0	M31×1.0
23	03~09	38.5	M34×1.0
25	04~10	41.7	M37×1.0

Table 2

Entry size code	Cable range C
01	1.57~3.18
02	3.18~6.35
03	6.35~9.53
04	9.53~12.7
05	12.7~15.88
06	15.88~19.05
07	19.05~22.23
08	22.23~25.4
09	25.4~28.58
10	28.58~31.75

Table 3

Shell size	Length code	L
09~25	Standard (omitted)	64.1
09~25	A	88.1
15~25	B	113.5
21~25	C	138.9

319-001 backshell

Basic series	319/	F	S	001	M	16	06
Design number							
Angel: A- 90° angled S-Straight							
Basic code							
Finsh: B:Olive green cadmium S:Stainless steel M: Nickel							
Shell size: 09-11-13-15-17-19-21-23-25							
Entry size: See table 1							

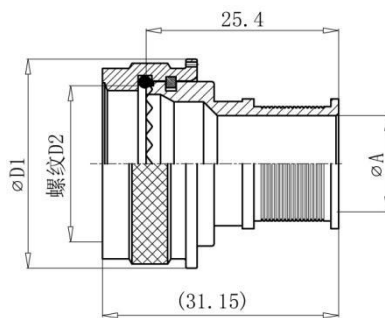


Table 1

Entry size code	Entry size A
1	4.8
2	6.4
3	7.9
4	9.5
5	11.1
6	12.7
7	14.3
8	15.9
9	17.5
10	19.1
11	20.6
12	22.2
13	23.8
14	25.4
15	31.8

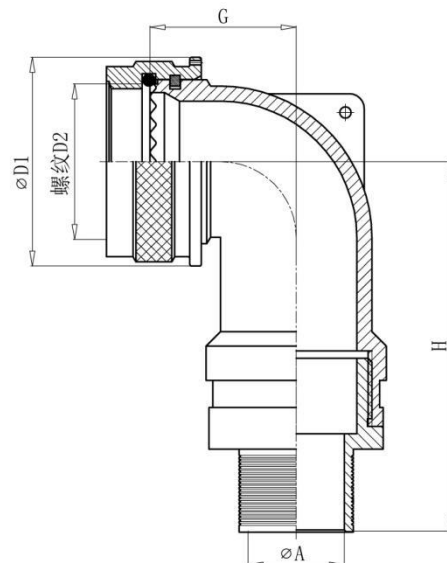


Table 2

Shell size	D1	Thread D2	G max	H max
09	16.5	M12×1.0	14.7	(43.9)
11	19.5	M15×1.0	17.1	47.0
13	22.5	M18×1.0	17.5	47.5
15	26.5	M22×1.0	19.8	49.3
17	29.5	M25×1.0	24.5	51.6
19	32.5	M28×1.0	26.8	55.9
21	36.0	M31×1.0	26.8	55.9
23	38.5	M34×1.0	30.6	58.7
25	41.7	M37×1.0	3.6	58.7

Special backshells

This kind of backshell is especially suitable for the clamping of shielding cable with shielding network, divided into straight and angled two categories. The accessory can be selected with a Ti-Ni alloy memory ring with alloy memory. Through heating, it is contracted, and the shielding net is tightened at the tail of the attachment, truly realizing the electromagnetic shielding of 360 °.

M85049/88 and 90 backshells

Basic series	M85049/	88-	13	N	A	03
Type:						
88-Straight						
90-90°angled						
Shell size:						
09 11 13 15 17 19 21 23 25						
A B C D E F G H J						
Finsh:						
W:Olive green cadmium S:Stainless steel						
F: Nickel TA: Titanium						
FT: Cadmium over aluminum						
Titanium nickel-ring;						
Without specification-without titanium nickel-ring						
A-with titanium nickel-ring						
Entry size or titanium-nickel-ring:						
Without titanium nickel-ring-mark the entry size						
With titanium nickel-ring-mark the titanium nickel-ring size						

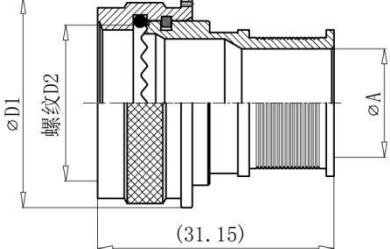
D38999 III -FJA00 、 D38999 III -FJA90 external shielding backshells

- Note:** 1. This kind of accessories are used in harsh environment, which do not need to be disassembled frequently, and can realize internal and external shielding.
2. M85049 / 88 and M85049 / 90 are the same as D38999 III -FJA 00 and D38999 III

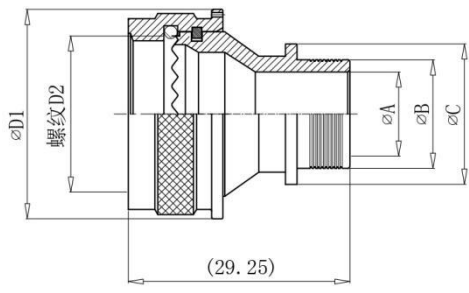
Basic series	D38999 III/	13	FJA	00	F	A	03
Shell size:							
09 11 13 15 17 19 21 23 25							
Accessories type:							
FJA、FJB、FJC、FJE							
Type:							
00-straight 90-90°angled							
Finsh:							
W:Olive green cadmium				S:Stainless steel			
F: Nickel				TA-Titanium			
FT: Cadmium over aluminum							
Titanium nickel-ring;							
Without specifiation-without titanium nickel-ring							
A-with titanium nickel-ring							
Entry size or titanium-nickel-ring:							
Without titanium nickel-ring-mark the entry size							
With titanium nickel-ring-mark the titanium nickel-ring size							

Dimension

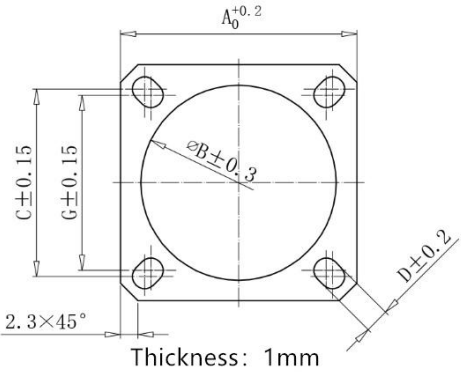
Straight backshell (M85049/88)

	Shell size	D1	Thread D2	A (02 entry size)	A (03entry size)
	09	17.6	M12×1.0	N/A	6.4
	11	20.6	M15×1.0	N/A	7.9
	13	23.6	M18×1.0	7.9	11.1
	15	27.6	M22×1.0	11.1	14..3
	17	30.3	M25×1.0	12.7	15.9
	19	33.3	M28×1.0	15.9	19.1
	21	36.8	M31×1.0	15.9	20.6
	23	39.3	M34×1.0	17.5	23.8
	25	42.3	M37×1.0	19.1	25.4

D38999 III **FJC00

	Shell size	D1	Thread D2	A	B	C
	09	17.6	M12×1.0	6.6	9.3	13.3
	11	20.6	M15×1.0	8.3	11	15
	13	23.6	M18×1.0	10	12.7	16.6
	15	27.6	M22×1.0	11.1	14.3	18.5
	17	30.3	M25×1.0	13.1	15.9	19.8
	19	33.3	M28×1.0	16.2	19	23
	21	36.8	M31×1.0	16.2	19	23
	23	39.3	M34×1.0	19.5	22.2	26.2
	25	42.3	M37×1.0	19.5	22.2	26.2

D38999- III square pad

 Thickness: 1mm	Shell size	A	B	C	G	D
	09	23.9	16.1	18.26	15.09	3.3
	11	26.3	19.2	20.62	18.26	3.3
	13	28.7	22.4	23.01	20.62	3.3
	15	31.1	25.6	24.61	23.01	3.3
	17	33.4	30.4	26.97	24.61	3.3
	19	36.6	32.0	29.36	26.97	3.3
	21	39.8	34.9	31.75	29.36	3.3
	23	43.0	38.3	34.93	31.75	4.0
	25	46.1	41.4	38.10	34.93	4.0