

R255 III series (MIL-DTL-38999 III series) connectors

Brief introduction

- Compliance with MIL-DTL-38999M standard.
- Fast connection with three heads, with anti-loosening mechanism.
- Small size, light weight , high contact density.
- Electromagnetic shielding function.
- Crimp contacts removable , anti-oblique function.
- High-intensity vibration characteristics at high temperature, suitable for use in bad wind wet situation
- 16# contact hole position can assemble fiber contact.
- 12#, 10#, 8# contact hole position can assemble coaxial, shield contact.



Performance specification

- Material: Shell: aluminum alloy, stainless steel, titanium alloy
- Insulation: thermosetting plastic or thermoplastic
- Grommet and seal: silicon rubber
- Plating:
W: olive drab cadmium over electroless nickel base
K: Stainless steel shell, passivated
F: electroless nickel finish
FT: Aluminum Alloy satin cadmium plating
TA: titanium alloy
- Contacts: copper alloy gold plating, crimp, solder and PCB
- Durability: 500 cycles
- Vibration:
Sinusoidal: 60 g, with temperature cycle and analog accessories (36 h)
Random vibration: Under high temperature, frequency 100~1000 Hz, power spectral density 1 g²/Hz, corresponding to root mean square value 41.7 g
Under ambient temperature: frequency 100~1000 Hz power spectral density 5 g²/Hz, corresponding root mean square value 49.5g

Electrical performance:

Withstand voltage: V

Working level*	M	N	I	II
Sea level	1300	1000	1800	2300
21000m	800	600	1000	1000

Note: different insert arrangement has different working grade, see insert arrangement upper right corner mark for details.

Contact resistance and current rating:

Contact specification	Working diameter mm	Contact resistance mΩ	Current rating A
22D	Φ0.76	≤12	5
20#	Φ1.00	≤5	7.5
16#	Φ1.60	≤2.5	13
12#	Φ2.40	≤1.5	23
10#	Φ3.15	≤1.0	40

Insulator resistance: $\geq 5000M\Omega$ (500VDC)

Shell conductivity:

W: $2.5m\Omega$

F, FT: $1.0m\Omega$

K, TA: $10m\Omega$

Electromagnetic interference shielding:

100MHz~1GHz, minimum attenuation is 85dB (F, W)

1GHz ~ 10GHz, minimum attenuation is 65dB (F), 50dB (W)

8# Dual coaxial contact: 0~20MHz rated voltage: maximum is 500VAC, 21000m is 125VAC.

Voltage drop: internal and intermediate contacts $1A \leq 55m$, external contacts $\leq 75mV$ under 12A

Environmental performance:

Temperature range:

W: $-65\text{ }^{\circ}\text{C} \sim +175\text{ }^{\circ}\text{C}$

F, K, FT, TA: $-65\text{ }^{\circ}\text{C} \sim +200\text{ }^{\circ}\text{C}$

Salt spray resistance :

W: 500h

K, TA: 1000h

F: 48h/96h

FT: 96h

Sealing: matching connector meet MIL-DTL-38999M requirements for low pressure impregnation

Damp heat: As MIL-DTL-38999M: 24 hours 10 times cycle

Liquid resistance: resistance to multiple fuels. Coolant, solvents.

How to order

Basic series	R255/	20	W	B	35	P	N
Type of connector	20 = Square flange receptacle 24 = Jam nut receptacle 26 = Shielding plug						
Finish	W = Olive green cadmium plating F = Electroless nickel plating T = Marine Bronze (copper aluminum alloy) K = Stainless steel passivated L = Black anodized J = Composite material + W M = Composite material + F						
Shell size	09 (A), 11 (B), 13 (C), 15 (D), 17 (E), 19 (F), 21 (G), 23 (H), 25 (J)						
Contact layout	See below						
Type of contact	P = Crimp pin S = Crimp socket PL = Long PCB pin PC = Short PCB pin SL = Long PCB socket SC = Short PCB socket						
Orientation	N = Normal A, B, C, D = Alternative						
Solder contact identification (only for solder connectors)	H - solder contact						

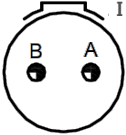
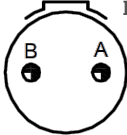

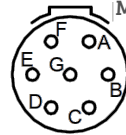

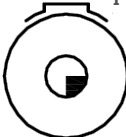
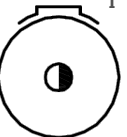
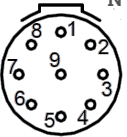
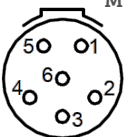
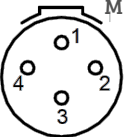
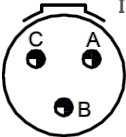
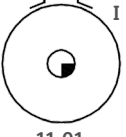
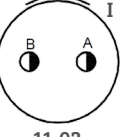
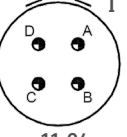
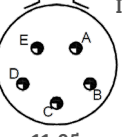
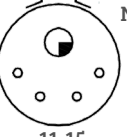
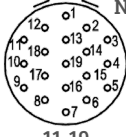
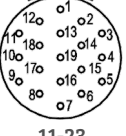
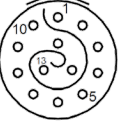
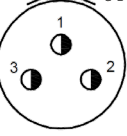
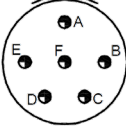
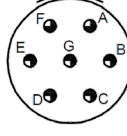
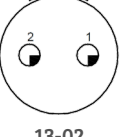
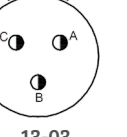
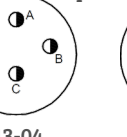
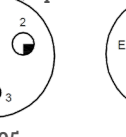
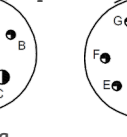
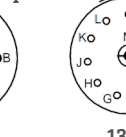
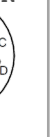
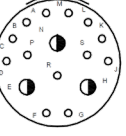
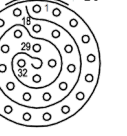
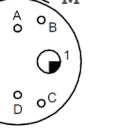
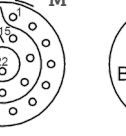
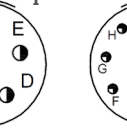
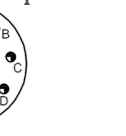
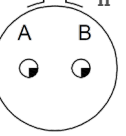
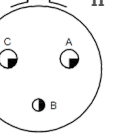
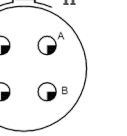
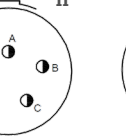
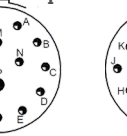
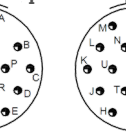

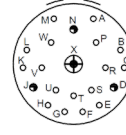
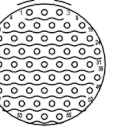
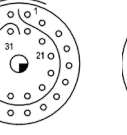
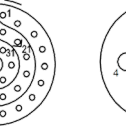
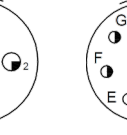
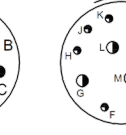

Crimp contacts

Contact specification	Work diameter	Pin color	Socket color	Inside diameter of crimp barrel mm	Outer diameter of Crimp barrel mm	Conductor section mm ²	Adapted USA cable AWG	Adapted cable Insulated outer Diameter mm	Unloading tool code	Crimp tool
22D	Φ0.76	Orange -blue- black	Orange- yellow- gray	0.85	1.20	0.08 0.125 0.2 0.3	28 26 24 22	0.76~1.37	M81969/ 14-01	YJQ-02
20#	Φ1.00	Orange -blue- orange	Orange- green- brown	1.17	1.78	0.2 0.3 0.5	24 22 20	1.02~2.11	M81969/ 14-10	YJQ-02 XCXY-01
16#	Φ1.60	Orange -blue- yellow	Orange- green-red	1.68	2.62	0.5 0.8 1.0 1.2	20 18 16	1.65~2.77	M81969/ 14-03	XCXY-01
12#	Φ2.40	Orange -blue- green	Orange- green- orange	2.49	3.84	2.0 3.0	14 12	2.46~3.61	M81969/ 14-04	XCXY-01
10#	Φ3.15	Green- red- gray	Green- orange- purple	3.40	4.65	4.8	10	3.42~4.12	M81969/ 14-05	XCXY-01 YTQ
8#	Φ3.60	—	—	4.55	6.4	8.37	8	6.4~6.9	M81969/ 14-12	YTQ

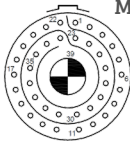
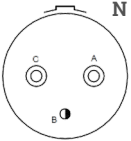
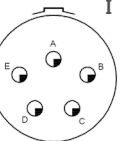
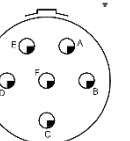
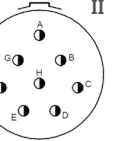
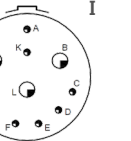
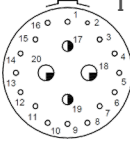
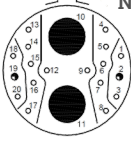
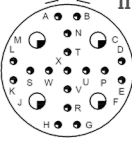

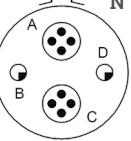
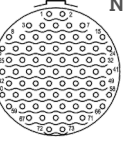
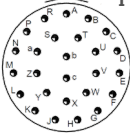
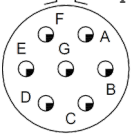
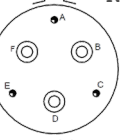
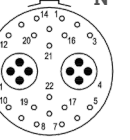
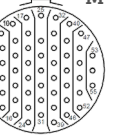
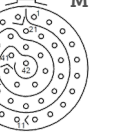
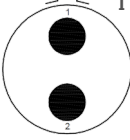
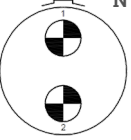
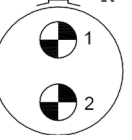
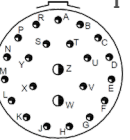
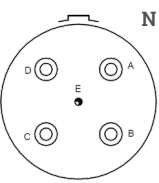
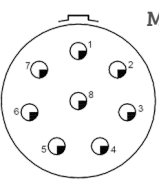
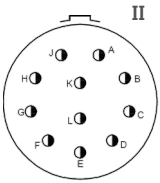
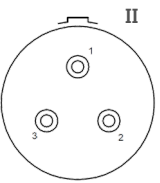
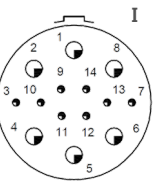
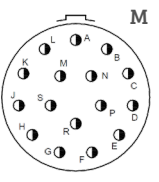
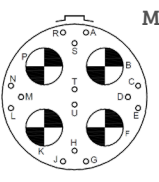
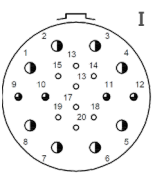
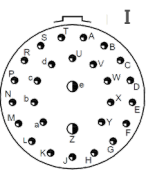
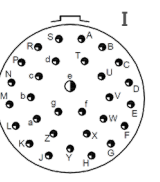
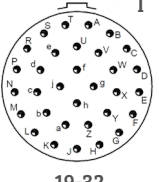
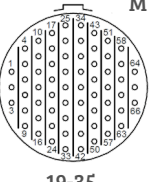
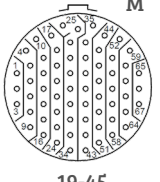
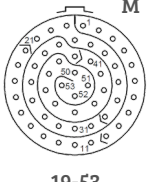
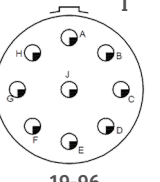
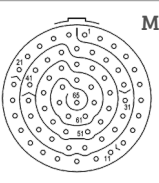
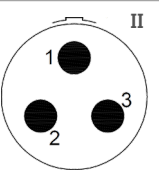
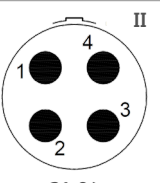
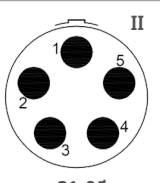
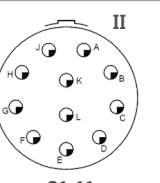
Solder contacts

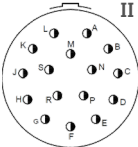
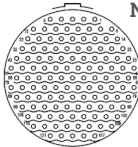
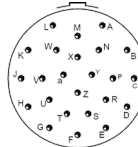
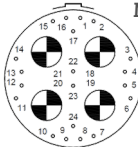
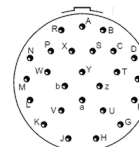
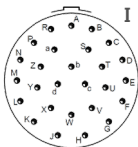
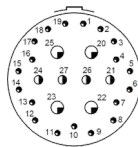
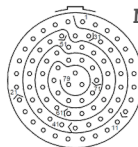
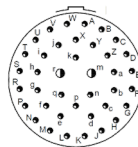
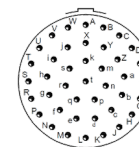
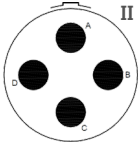
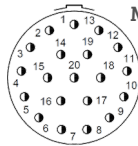
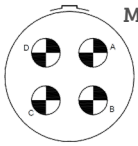
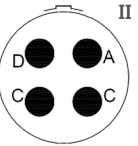
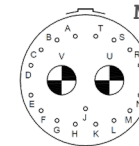
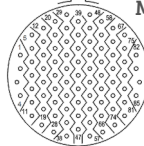
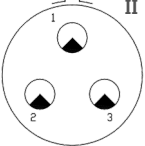
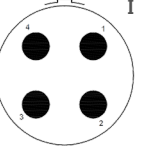
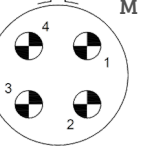
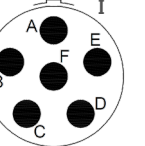
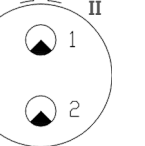
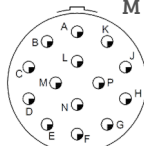
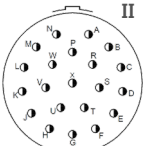
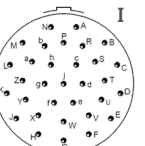
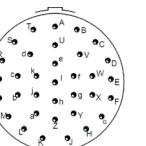
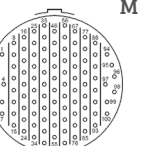
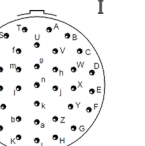
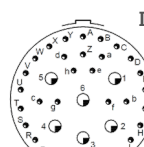
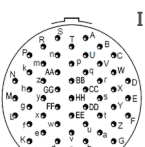
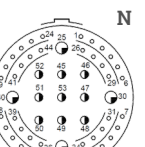
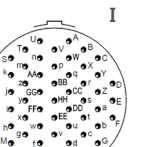
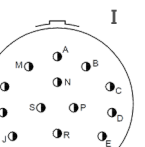
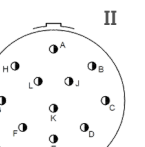
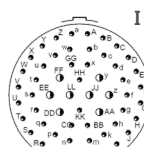
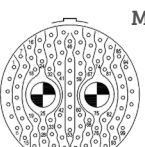
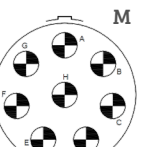
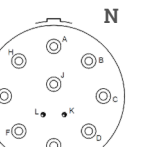
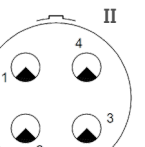
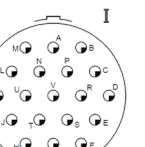
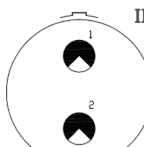
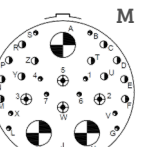
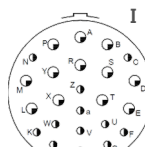
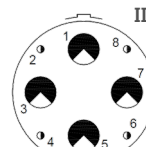
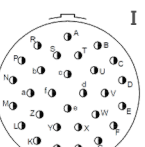
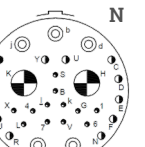
Solder contact specification	Solder cup diameter	(AWG)
22D	Φ0.9	22
20#	Φ1.1	20
16#	Φ1.9	16
12#	Φ2.9	12
10#	Φ3.6	10
8#	Φ4.6	8

Insert arrangements

09 (A)	 I 09-02 2-20#	 I 09-02b 2-20# (The hole spacing is larger than 09-02)	 M 09-05 1-8# Four difference	 M 09-07 7-22D	 N 09-09 9-23#		
	 I 09-10 1-12#	 I 09-11 1-16#	 N 09-23 9-23# (The coordinates are consistent with 09-09)	 M 09-35 6-22D	 M 09-44 4-22M	 I 09-98 3-20#	
11 (B)	 I 11-01 1-12#	 I 11-02 2-16#	 I 11-04 4-20#	 I 11-05 5-20#	 N 11-15 1-12# 4-22D	 N 11-19 19-23#	
	 N 11-23 19-23# (Same as 11-19 coordinates)	 M 11-35 13-22D	 M 11-43 3-16#	 I 11-98 6-20#	 I 11-99 7-20#		
13 (C)	 I 13-02 2-12#	 II 13-03 3-16#	 I 13-04 4-16#	 I 13-05 1-16# 2-12#	 I 13-05a 2-16# 3-20#	 I 13-08 8-20#	 N 13-12 1-12# coaxial 11-22D
	 N 13-16 3-16# 13-22D	 N 13-23 32-23#	 M 13-26 2-12# 6-22D	 M 13-35 22-22D	 I 13-45 5-16#	 I 13-98 10-20#	
15 (D)	 II 15-02 2-12#	 II 15-03 2-12# 1-16#	 II 15-04 4-12#	 II 15-05 5-16#	 I 15-15 1-16# 14-20#	 I 15-18 18-20#	 I 15-19 19-20#
	 Coax I 15-21 1-12# coaxial 3-20# 17-22D	 N 15-23 55-23#	 M 15-31 1-12# 30-22D	 M 15-35 37-22D	 II 15-38 4-12#	 I 15-48 8-16#	 I 15-97 4-16# 8-20#



17 (E)	 <p>17-02 1-8# Dual coaxial 38-22D</p>	 <p>17-03 2-10# 1-16#</p>	 <p>17-05 5-12#</p>	 <p>17-06 6-12#</p>	 <p>17-08 8-16#</p>	 <p>17-11 3-12# 8-20#</p>
	 <p>17-20 2-12# 2-16# 16-22D</p>	 <p>17-20a 2-8# 2-20# 16-22D</p>	 <p>17-21 4-12# 17-22D</p>	 <p>17-22 18-8# power contact</p>	 <p>17-22q 2-8# coaxial 2-12#</p>	 <p>17-23 73-23#</p>
	 <p>17-26 26-20#</p>	 <p>17-27 7-12#</p>	 <p>17-30 3-10# 3-20#</p>	 <p>17-32 2-8# difference 22-22D</p>	 <p>17-35 55-22D</p>	 <p>17-42 42-22D</p>
	 <p>17-62 2-8# power contact</p>	 <p>17-75 18-8# coaxial</p>	 <p>17-82 18-8# coaxial</p>	 <p>17-99 2-16# 21-20#</p>		
19 (F)	 <p>19-05 1-20# 4-10#</p>	 <p>19-08 8-12#</p>	 <p>19-11 11-16#</p>	 <p>19-13 3-10# power contact</p>	 <p>19-14 6-12# 8-20#</p>	
	 <p>19-16a 16-16#</p>	 <p>19-18 4-8# coaxial 14-22D</p>	 <p>19-24 8-16# 4-20# 8-22D</p>	 <p>19-28 2-16# 26-20#</p>	 <p>19-30 1-16# 29-20#</p>	
	 <p>19-32 32-20#</p>	 <p>19-35 66-22D</p>	 <p>19-45 67-22D</p>	 <p>19-53 53-22D</p>	 <p>19-96 9-12#</p>	
	 <p>21-02 65-22D</p>	 <p>21-03 22-8# power contact</p>	 <p>21-04 22-8# power contact</p>	 <p>21-05 22-8# power contact</p>	 <p>21-11 11-12#</p>	

21 (G)	 <p>21-16 16-16#</p>	 <p>21-23 117-23#</p>	 <p>21-24 24-20#</p>	 <p>21-24a 4-8# coaxial 20-22D</p>	 <p>21-25 25-20#</p>	
	 <p>21-27 27-20#</p>	 <p>21-29 4-12# 4-16# 19-20#</p>	 <p>21-35 79-22D</p>	 <p>21-39 2-16# 37-20#</p>	 <p>21-41 41-20#</p>	
	 <p>21-48 4-8# power contact</p>	 <p>21-70 20-16#</p>	 <p>21-75 4-8# coaxial</p>	 <p>21-75a 22-8# power contact</p>	 <p>21-77/21-79 2-8# coaxial 17-22D</p>	
23 (H)	 <p>23-02 85-22D</p>	 <p>23-03 3-6# power contact</p>	 <p>23-04 24-8# power contact</p>	 <p>23-04 24-8# coaxial</p>	 <p>23-06a 6-8# power contact</p>	 <p>23-12 24-6# power contact</p>
	 <p>23-14 14-12#</p>	 <p>23-21 21-16#</p>	 <p>23-32 32-20#</p>	 <p>23-34 34-20#</p>	 <p>23-35 100-22D</p>	 <p>23-36 36-20#</p>
	 <p>23-37 6-12# 31-20#</p>	 <p>23-53 53-20#</p>	 <p>23-54 4-12# 9-16# 40-22D</p>	 <p>23-55 55-20#</p>	 <p>23-97 16-16#</p>	 <p>23-99 11-16#</p>
25 (J)	 <p>25-04 8-16# 48-20#</p>	 <p>25-07 2-8# Dual coaxial 97-22D</p>	 <p>25-08/25-10 8-9# Dual coaxial</p>	 <p>25-11 9-10# power contact 2-20#</p>	 <p>25-14 4-6# power contact</p>	 <p>25-19 19-12#</p>
	 <p>25-22 2-4#</p>	 <p>25-20 3-8# Dual coaxial 4-12# Coaxial 13-16#10-20#</p>	 <p>25-24 12-12# 12-16#</p>	 <p>25-28 4-4# power contact 4-16#</p>	 <p>25-29 29-16#</p>	 <p>25-31 2-8# Dual coaxial 5-10# 12-16# 1-20#</p>

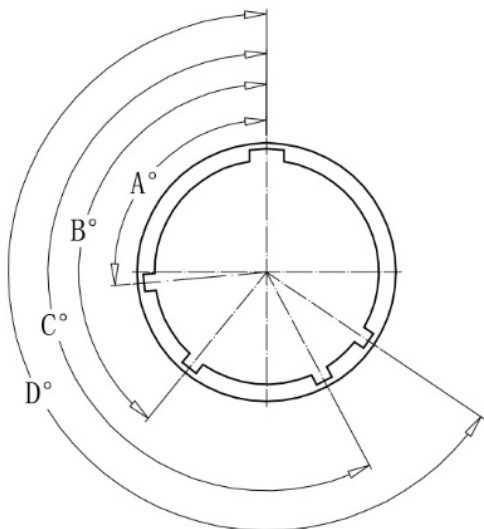


25 (J)	<p>25-33 3-4# power contact</p>	<p>25-35 128-22D</p>	<p>25-37 37-16#</p>	<p>25-41 14-22D 24-16# 3-10#</p>	<p>25-43 20-16# 23-20#</p>	<p>25-46 2-8# Dual coaxial 4-16# 40-20#</p>
	<p>25-61 61-20#</p>	<p>25-64 16-22D 40-20# 8-16#</p>	<p>25-70 61-22D 3-20# 4-16# 2-8# Double differential 1-8#</p>	<p>25-90 40-20# 4-16# 2-8# Double differential</p>	<p>25-93 8-16# 110-22D</p>	<p>25-187 187-23#</p>

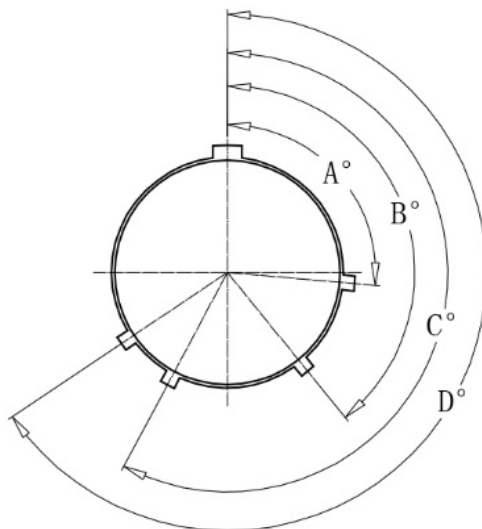
23	22D	20#	16#	16# Shield
12#	12# Shield	12# Coaxial	10#	8# Single coaxial
8# Double coaxial	8#	8# Differential 4 cores	8# Differential 2 cores	4#

Key position

Receptacle



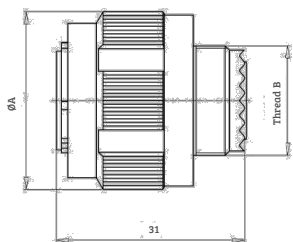
Plug



Shell no	MS shell no	Angle	N	A	B	C	D	E
9	A	A°	105	102	80	35	64	91
		B°	140	132	118	140	155	131
		C°	215	248	230	205	234	197
		D°	265	320	312	275	304	240
11	B	A°	95	113	90	53	119	51
		B°	141	156	145	156	146	141
13	C	C°	208	182	195	220	176	184
		D°	236	292	252	255	298	242
17	E	A°	80	135	49	66	62	79
		B°	142	170	169	140	145	153
		C°	196	200	200	200	180	197
		D°	293	310	244	257	280	272
19	F	A°	80	135	49	66	62	79
21	G	B°	142	170	169	140	145	153
23	H	C°	196	200	200	200	180	197
25	J	D°	293	310	244	257	280	272

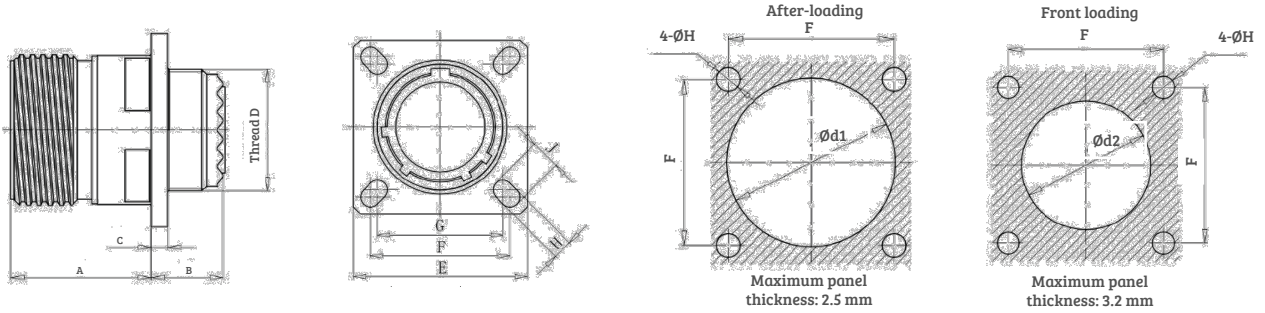
Overall dimension

R255/26 plug



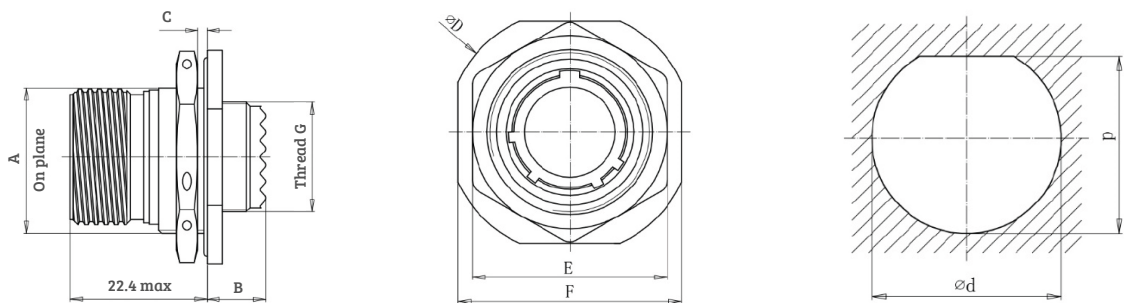
Shell no	MS shell no	A	Screw thread B
09	A	21.5	M12×1.0-6g
11	B	25.0	M15×1.0-6g
13	C	29.2	M18×1.0-6g
15	D	32.4	M22×1.0-6g
17	E	35.6	M25×1.0-6g
19	F	38.5	M28×1.0-6g
21	G	41.7	M31×1.0-6g
23	H	44.9	M34×1.0-6g
25	J	48.0	M37×1.0-6g

R255/20 flange receptacle

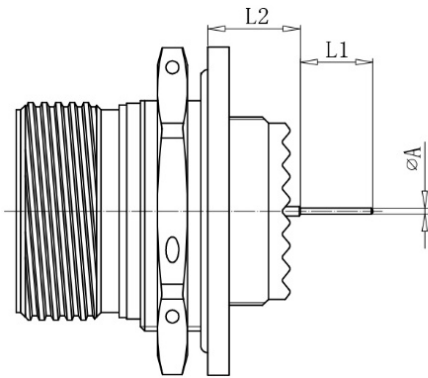
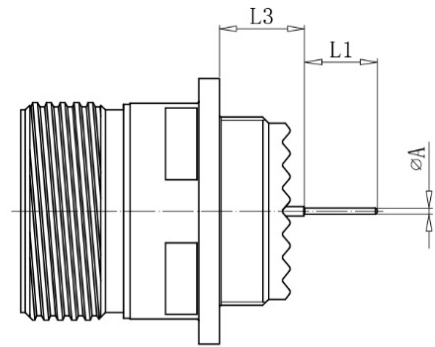


Shell no	MS shell no	A max	B max	C max	D screw thread	E	F	G	H	J	d1 min	d2 min
09	A	20,9	10,8	2,5	M12×1.0-6g	23,8	18,26	15,09	3,25	5,49	16,66	13,11
11	B	20,9	10,8	2,5	M15×1.0-6g	26,2	20,62	18,26	3,25	4,93	20,22	15,88
13	C	20,9	10,8	2,5	M18×1.0-6g	28,6	23,01	20,62	3,25	4,93	23,42	19,05
15	D	20,9	10,8	2,5	M22×1.0-6g	31,0	24,61	23,01	3,25	4,39	26,59	23,01
17	E	20,9	10,8	2,5	M25×1.0-6g	33,3	26,97	24,61	3,25	4,93	30,96	25,81
19	F	20,9	10,8	2,5	M28×1.0-6g	36,5	29,36	26,97	3,25	4,93	32,94	28,98
21	G	20,1	11,5	3,2	M31×1.0-6g	39,7	31,75	29,36	3,25	4,93	36,12	32,16
23	H	20,1	11,5	3,2	M34×1.0-6g	42,9	34,93	31,75	3,91	6,15	39,29	34,93
25	J	20,1	11,5	3,2	M37×1.0-6g	46,0	38,10	34,93	3,91	6,15	42,47	37,69

R255/24 Jam nut receptacle

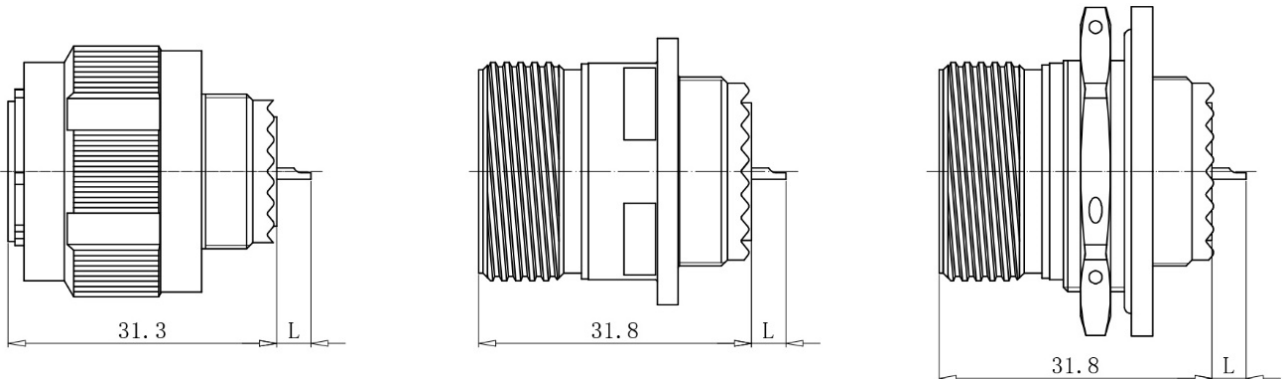


Shell no	MS shell no	A	B max	C max	D max	E	F	D screw thread	d	P
09	A	16,5	9,9	3,2	30,5	22,5	27,1	M12×1.0-6g	17,70	17,00
11	B	19,2	9,9	3,2	35,2	25,7	32,1	M15×1.0-6g	20,88	19,53
13	C	23,8	9,9	3,2	38,4	30,5	25,0	M18×1.0-6g	25,58	24,26
15	D	26,9	9,9	3,2	41,6	33,6	38,3	M22×1.0-6g	28,80	27,53
17	E	30,3	9,9	3,2	44,8	36,8	41,8	M25×1.0-6g	32,01	30,73
19	F	33,4	9,9	3,2	49,3	40,0	46,4	M28×1.0-6g	35,15	33,86
21	G	36,5	9,9	3,2	52,7	43,2	49,6	M31×1.0-6g	38,28	37,06
23	H	39,7	9,9	3,2	55,9	46,3	52,8	M34×1.0-6g	41,53	40,26
25	J	42,8	9,9	3,2	59,0	51,0	55,8	M37×1.0-6g	44,68	43,41

R255 III series receptacle with PCB
R255/24 receptacle

R255/20 receptacle


PCB contact specification		L1	A
22D	Long PCB contact	8,5	0,7
	Short PCB contact	4,0	
20#	Long PCB contact	8,5	0,7
	Short PCB contact	5,1	
16#	Long PCB contact	8,5	1,15
	Short PCB contact	5,1	

Dimension for mounting different specification contacts		Shell no 09-11	Shell no 13 15 17 19 21 23 25
L2	22D pin	10,52-11,46	10,34-11,28
	22D socket	10,19-11,46	10,01-11,28
	16# or 20# pin socket	10,69-11,63	10,51-11,45
L3	22D pin	9,48-10,58	9,48-10,58
	22D socket	9,15-10,58	9,15-10,58
	16# or 20# pin socket	9,65-10,75	9,65-10,75

R255 III series solder connector


Solder contact specification	22D	20#	16#	16#	10#	8#
L	4	4	4	4	6	6

Dust cap

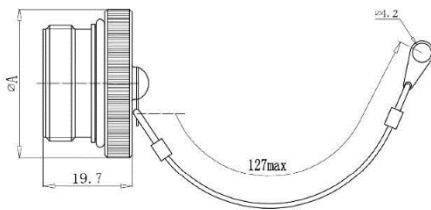
Basic series	R255/	32	F	09	N
	32 = Dust cap of plug 33 = Dust cap of receptacle				
Finish	W = Olive green cadmium plating F = Electroless nickel plating J = Olive green cadmium plating (composite material) M = Electroless nickel plating (composite material)				
Shell size	09, 11, 13, 15, 17, 19, 21, 23, 25				
Chain type	N = Stainless steel rope with ring R = Stainless steel rope with hole				

Note: Dust cap should be ordered separately, not supplied with connector, can be customized according to customer's request.

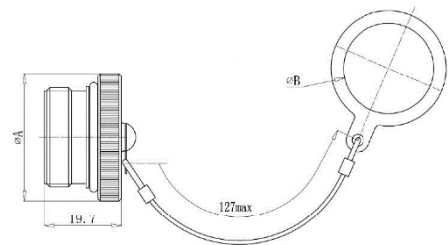
Overall dimension

Plug sealing cover: R255/33

Class C

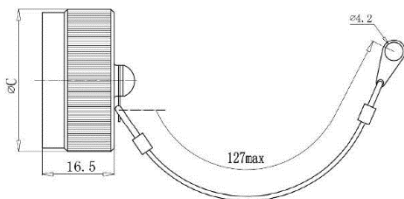


Class S

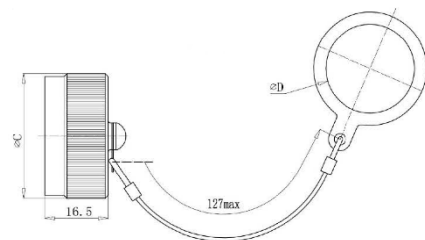


Socket sealing cover: R255/33

Class C



Class S



Shell no	09	11	12	15	17	19	21	23	25
A	22,5	26,5	29,5	32,5	36	38,4	41,7	44,4	48,3
B min	12,92	17,78	19,27	22,6	25,62	28,95	31,97	34,03	38,32
C	22,5	26,5	29,5	32,5	36	38,4	41,7	44,4	48,3
D min	17,78	21,33	25,62	28,95	31,37	35,3	38,32	41,65	44,45

Standard tail accessories

(applicable to R255 III series electrical connectors)

This type of accessories complies with the national military standard GJB1784 (equivalent to the US military standard MIL-C-85049)

Note:

1. The "L3906" and "L3906A" mentioned in the attachment model are equivalent and there is no difference.
2. When using the accessories, at least one of the following anti-loosening measures should be taken :
 - Pass the fuse through the safety hole to prevent it from loosening;
 - Apply thread glue to the thread at the end of the product and tighten the connecting nut to prevent it from loosening;
 - Use heat shrink tubing to shrink the entire accessory to prevent it from loosening.
3. For accessories with set screws, apply thread glue on the set screws before tightening them.
4. If the product that the cable accessories are compatible with is equipped with No. 8 contacts, you need to use longer cable accessories such as L3906/49H or L3906/18A to avoid interference between the contact locator and the cable accessories.
5. The following table lists the correspondence between R255 series welding and crimping products and adapter cable accessories, as well as the functional classification of cable accessories. Due to the large number of modified products and modified accessories of our company at this stage, they cannot be listed one by one. The contents of this table are for reference only. Please contact our company for confirmation for details.

Connector Type	Suitable cable accessories function type	Suitable cable accessory models
R255 III Series Crimp connector	No cable clamping and no shielding accessories	1. L3906/14
	Clamping cable unshielded accessories	1. L3906/38
		2. L3906/39
		3. L3906/16
	Shielded Clampless Cable accessories	1. L3906/20
		2. L3906/69
		3. L3906/88
4. L3906/90		
5. RF255III-FJA00		
6. RF255III-FJA90		
7. RF255III-xxFJB00F		
Cable clamping and shielding accessories	8. RF255III-xxFJC00	
	9. RF255III-xxFJE00	
	1. L3906/38-**NB	
R255 III Series Welding connector	2. L3906/18 series	
	No cable clamping and no shielding accessories	1. L3906/14
	Clamping cable unshielded accessories	1. L3906/38H
		2. L3906/16H
	Shielded Clampless Cable accessories	1. L3906/20
		2. L3906/69
		3. L3906/88
		4. L3906/90
		5. RF255III-FJA00
		6. RF255III-FJA90
		1. L3906/18 series
	Cable clamping and shielding accessories	1. L3906/18 series



Standard tail accessories

(applicable to R255 III series electrical connectors)

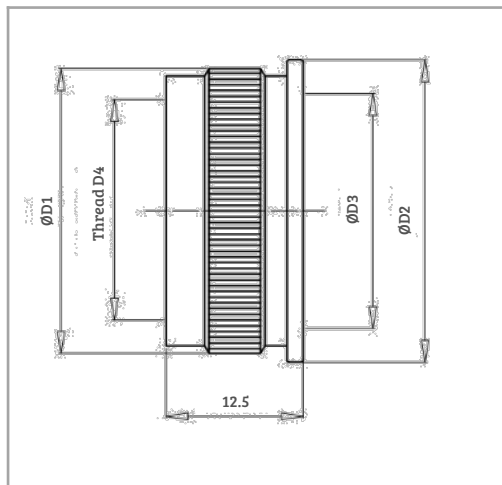
How to order

Basic series	L3906/	38	-15	N	09	A
Type	<ul style="list-style-type: none"> 14 = Tail nut 16 = 90° elbow cable clamp 18 = Straight cable clamp with shielding 20 = Shielding back shell 38 = Straight cable clamp 38S = Self-locking straight cable clamp 39 = 90° elbow cable clamp with shielding 39S = Self-locking 90° elbow cable clamp with shielding 69 = Heat shrinkable sleeve 01 = Earthing and impaction 					
Shell size	09, 11, 13, 15, 17, 19, 21, 23, 25					
Shell plating	<ul style="list-style-type: none"> W = Olive green cadmium plating N = Electroless nickel plating S = Stainless steel passivated A = Black anodized J = Olive green cadmium plating (composite material) 					
Outlet diameter	<ul style="list-style-type: none"> Omit = Standard size 01 = 1.57 ~ 3.18 mm, 02 = 3.18 ~ 6.35 mm 03 = 6.35 ~ 9.53 mm, 04 = 9.53 ~ 12.70 mm 05 = 12.70 ~ 15.88 mm, 06 = 15.88 ~ 19.05 mm 07 = 19.05 ~ 22.23 mm, 08 = 22.23 ~ 25.40 mm 09 = 25.4~28.58 mm, 10 = 28.58~31.75 mm 					
Length	<ul style="list-style-type: none"> Omit = Standard length (64.1 mm) A = 88.1 mm B = 113.5 mm C = 138.9 mm 					



Overall dimension

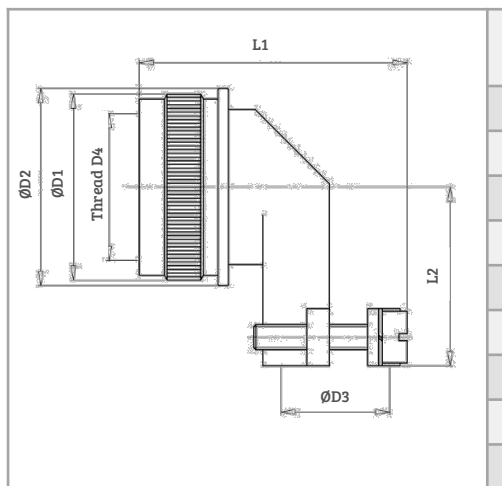
L3906/14-Tail nut



Shell no	D1	D2	D3	Screw 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

The anti-rotation accessories tightly clamp the cable seal to ensure the environmental resistance of the connector. They cannot clamp the cable and are used in situations where the environmental conditions are normal.

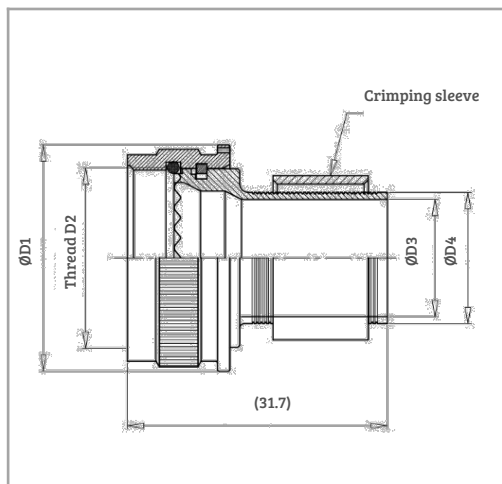
L3906/16 - 90° cable clamp (Clamping cable not shielded)



Shell no	D1	D2	D3	Screw thread D4	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

Anti-rotation, cable 90° clamping cable accessory, can tighten the sealing body, 90° cable clamping function to ensure the environmental resistance of the connector, used in situations where the cable is under tension.

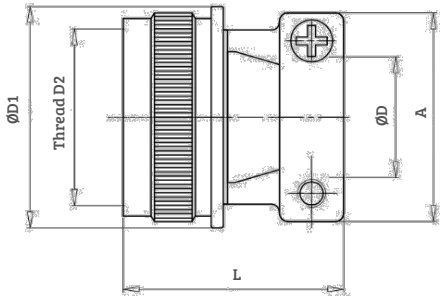
L3906/20-Shielding back shell (shielding non-clamping cable accessories)



Shell no	D1	Screw 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

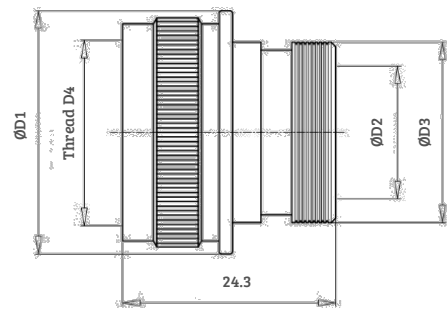
Anti-rotation, clamping cable accessory, can tighten the sealing body, clamp the cable function, ensure the environmental resistance of the connector, and can be used in situations where the cable is under tension.

L3906/38 - Straight cable clamp (clamping cable not shielded)

	Shell no	D1	Screw thread D2	D	A	L
		09	17.6	M12×1.0	2.49-5.64	20
	11	20.6	M15×1.0	3.87-5.94	22	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	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	29
	21	36.8	M31×1.0	8.71-17.73	38	30.4
	23	39.3	M34×1.0	9.68-20.90	41	32.4
	25	42.3	M37×1.0	10.62-21.66	44	34.4

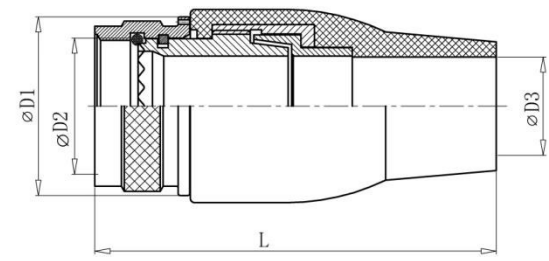
Anti-rotation, clamping cable accessory, can tighten the sealing body, clamp the cable function, ensure the environmental resistance of the connector, and can be used in situations where the cable is under tension.

L3906/69-Heat shrink sleeve back shell

	Shell no	D1	D2	D3	Screw thread D4
		09	16.5	6.9	11.0
	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	30.3	36.2	M37×1.0

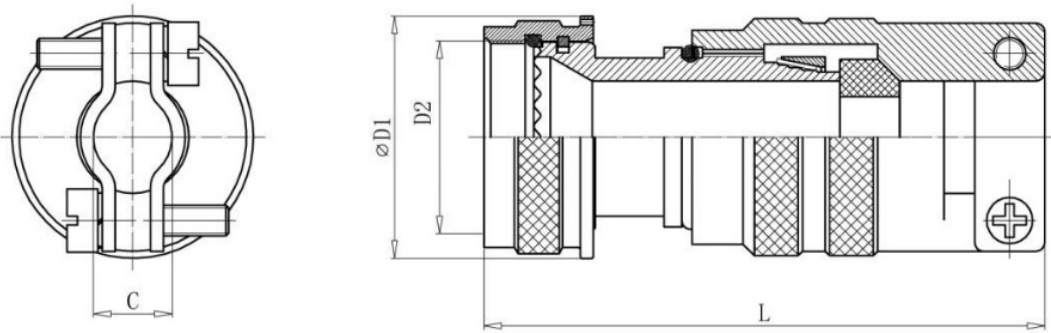
Anti-rotation, compression shielding net attachment. It can tighten the sealing body and provide the function of connecting the shielding net and tail accessories to ensure the environmental resistance and electromagnetic shielding performance of the connector. It cannot clamp the cable and is used in situations where the cable is under small tension.

L3906/01-Grounding clamp tail accessories (shielded non-clamping cable accessories)

	Shell no	D1	Screw thread D2	D3	L
		09	17.6	M12×1.0	7.0
	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, compression shielding net attachment. It can tighten the sealing body and provide the connection function between shielding net and tail accessories to ensure the environmental resistance and electromagnetic shielding performance of the connector. It cannot clamp the cable and is used in situations where the cable is under small tension.

L3906/18-Straight Shielded Cable Clamp



The anti-rotation, compression shielding net and clamping cable accessories can tighten the sealing body, provide the connection function between the shielding net and the tail accessories, ensure the high environmental resistance and electromagnetic shielding performance of the connector, and be used in harsh environments. The cable accessories have different lengths and can be used in high and low frequency mixed installations and other occasions that require longer accessories. It is recommended to use finished cables for this accessory.

Shell no	Each shell number can choose the outlet diameter number	D1	Screw 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

Outlet diameter number	Applicable cable diameter 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

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

319-001 series model naming

How to order

Basic series	319	F	S	001	M	15	06
Design No.							
Angle type:	A-bent 90° S-straight						
Basic code							
Finish:	B = Olive green cadmium plating M = Electroless nickel plating NF = Electroless nickel-plated followed by cadmium-plated military green						
Shell Number:	09, 11, 13, 15, 17, 19, 21, 23, 25						
Outlet diameter number:	see Table 1 for details						

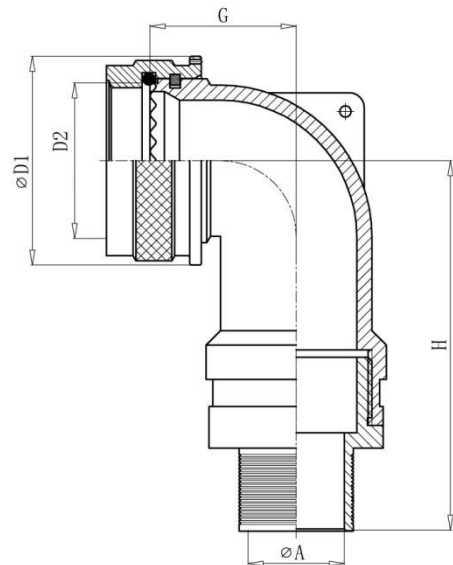
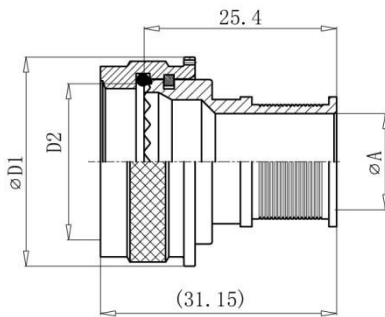


Table 1

Outlet diameter number	Outlet diameter A
01	4.8
02	6.4
03	7.9
04	9.5
05	11.1
06	12.7
07	14.3
08	15.9
09	17.5
10	19.1
11	20.6
12	22.2
13	23.8
14	25.4
15	31.8

Table 2

Shell number	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 tail accessories (applicable to R255 III series electrical connectors)

This type of tail attachment is especially suitable for clamping shielded cables with shielding nets, and is divided into two categories: straight type and curved type. This accessory can be equipped with an optional Ti-Ni alloy memory ring with alloy memory, which is heated to shrink it and tightly clamp the shielding net at the end of the accessory, truly achieving 360° electromagnetic shielding.

Note: The heating shrinkage method of the Ti-Ni alloy memory ring: You can use a hot air gun to heat it, which takes about 45 seconds to 1 minute. When the temperature indicator color code on the memory ring changes from green to black, the memory ring has completed shrinking. At this time, the ring The temperature is about 165°C, stop heating, and pay attention to ensure that the memory ring is heated evenly during heating.

How to order

L3906/88 , L3906/90 tail accessories (shielded non-clamped cable accessories)

Basic series	L3906/	88	-13	N	A	03			
Series code :	88 - straight, 90 - curved								
Accessory shell number :	09	11	13	15	17	19	21	23	25
	A	B	C	D	E	F	G	H	J
Finish:	W = Cadmium-plated military green N = Chemical nickel plating S = Stainless steel passivation FT = Aluminum alloy with satin cadmium plating TA = Titanium alloy (only for 88 type)								
Titanium nickel ring:	no mark - no titanium nickel ring A - optional titanium nickel ring								
Outlet diameter or titanium-nickel ring specifications :	If there is no titanium-nickel ring, mark the outlet diameter. If a titanium-nickel ring is selected , mark the titanium-nickel ring specifications.								

RF255III - FJA00 , RF255III - FJA90 outer shield tail accessories (shielded non-clamped cable accessories)

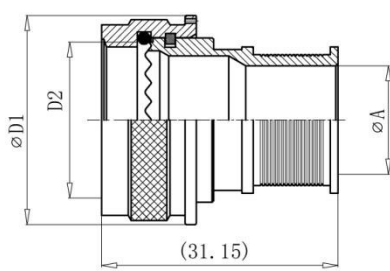
Basic series	RF255	III	13	FJA	00	FT	A	03
Series code :	III							
Accessory shell number :	09, 11, 13, 15, 17, 19, 21, 23, 25							
Accessory Type:	FJA, FJB, FJC, FJE							
Mechanism:	00 = straight tail attachment 90 = 90° curved attachment							
Finish:	W = Cadmium-plated military green N = Chemical nickel plating S = Stainless steel passivation FT = Aluminum alloy with satin cadmium plating TA = Titanium alloy (only for 85 type)							
Titanium nickel ring :	no mark - no titanium nickel ring A - optional titanium nickel ring							
Outlet diameter or titanium-nickel ring specifications:	If there is no titanium-nickel ring, mark the outlet diameter. If a titanium-nickel ring is selected, mark the titanium-nickel ring specifications.							

Note :

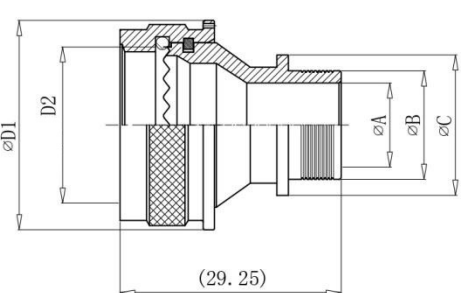
- This type of accessories is used in harsh environments and does not need to be disassembled frequently, and can achieve internal and external shielding.
- L3906/88 , L3906/90 and RF255III-FJA00 , RF255III-FJA90, only the model name is different.

Dimensions

Straight attachment (L3906/88 or RF255III-FJA00)

	Shell No.	D1	Thread D2	A (02 outlet hole)	A (03 outlet hole)
	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	

RF255III-FJA00-FJC00 (Shielded non-clamped cable accessories)

	Shell No.	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	