

MIL-DTL-5015 Compatible Environment Resistant Type.

RoHS2

DMS E/F/R-F Series

Fujikura

OUTLINE

RoHS Compliant

DMS E/F/R Series provides a set of moisture-resistant and oil-resistant connectors.

This series uses synthetic rubber for their inserts to cope with the various environments in which industrial machines are installed.

The products in the DMS E/F/R-F series are compatible and comply with MIL-DTL-5015.

The F and R types prevent the entry of water moisture, cutting oil and other foreign substances into machines where those connectors are employed, helping enhance the reliability of the equipment.



Conforming
Standard
MIL-DTL-5015

Waterproof
IP55

Lock Type
Threaded
Coupling

FEATURES

- ◆ Synthetic rubber inserts.
- ◆ Grommet for moisture-proof.
- ◆ Grommet and cable clamp combination for extra strength to hold cable.
- ◆ Solder termination contacts.
- ◆ When using BSS or BSL backshell, waterproofing is IP67 when mated.

MATERIAL / FINISH



Item	Material / Finish
Contact	Copper Alloy / Silver Plating, Gold Plating
Insert	Synthetic Resin / Black
Shell	Aluminum Alloy / Cation Electroplating(Black)

APPLICATION

The DMS E/F/R-F series is designed and manufactured for reliable performance in a broad range of electric / electronic equipment applications.

These include machine tools, communications, instrumentation and high current systems.

Receptacle Connector



Wall Receptacle
DMS3100E-F



Cable Receptacle
DMS3101E-F



Box Receptacle
DMS3102 E / R-F

Plug Connector



Straight Plug
DMS3106 E / F-F



Angle Plug
DMS3108 E / F-F

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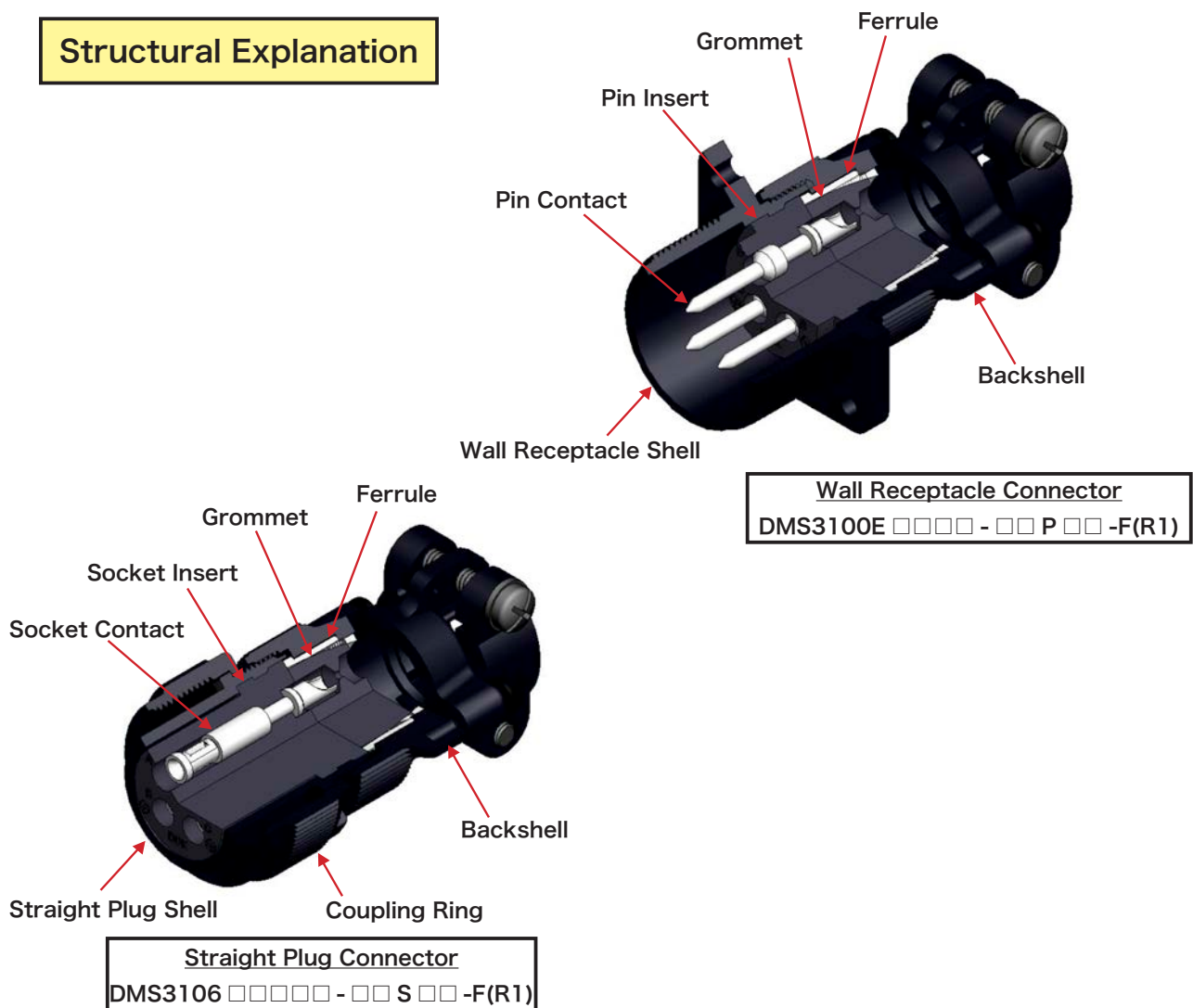
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► DMS E/F/R-F Series

Specification

Insulation Resistance	More than 500M Ω at DC500V (at 25°C degree)
Temperature Range	-55°C to +125°C
Durability	500 cycle mating / unmating operations
Thermal Shock	MIL-STD-202 method 107 Temperature range of -55°C to +125°C
Humidity	Relative humidity : 95% $\pm$ 3% Temperature : 71°C $\pm$ 2°C Duration : 14 days(336hrs.)
Vibration	MIL-STD-1344 method 2005 10-500Hz or 10G units
Shock, Electrical	1-2 sine wave transient shock impulse of 50G units Duration: 10 micro sec(There must not be current interception.) Test Current / 100mA
Salt Spray	MIL-STD-1344 method 1001 Salt solution / 5% Temperature in tank / 35°C Duration: 48H

Structural Explanation



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Contact

---Crimp Type---

Pin Contact

DMSE - # □ □ P □ - C □



Socket Contact

DMSE - # □ □ S □ -C □



Applicable Wire

Contact Size	AWG	Sectional Area Capacitance (mm ²)	Max. Conductor External Diameter (mm)
#16	#16 - #22	1.25	1.6
#12	#12 - #14	3.50	2.5
#8	#8 - #10	8.00	4.5
#4	#4 - #6	22.00	7.0
#0	#0 - #2	50.00	11.0

Rated Current

Contact Size	AWG	Max. Value per Contact(A)
#16	#16 - #22	13
#12	#12 - #14	23
#8	#8 - #10	46
#4	#4 - #6	80
#0	#0 - #2	150

Rated Voltage

Service Rating	Rated Voltage(V)	
	DC	AC (r.m.s)
INST	250	200
A	700	500
D	1250	900

DMS E/F/R-F Series

Insert Arrangement List

Contact Size



#16

#12

#8

#4

#0

Front face of pin insert or rear face of socket insert illustrated.

Number of Contact	2		
Insert Arrangement			
Insert Number	10SL - 4	12S - 3	18 - 3
Contact Size	2 - #16	2 - #16	2 - #12
Service Rating	Serv. A	Serv. A	Serv. D

Number of Contact	3			
Insert Arrangement				
Insert Number	10SL - 3	14S - 7	16S - 5	16 - 10
Contact Size	3 - #16	3 - #16	3 - #16	3 - #12
Service Rating	Serv. A	Serv. A	Serv. A	Serv. A

Number of Contact	4				
Insert Arrangement					
Insert Number	14S - 2	16 - 9	18 - 10	22 - 22	32 - 17
Contact Size	4 - #16	2 - #16 / 2 - #12	4 - #12	4 - #8	4 - #4
Service Rating	Serv. INST.	Serv. A	Serv. A	Serv. A	Serv. D

Number of Contact	5			
Insert Arrangement				
Insert Number	14S - 5	16S - 8	18 - 11	28 - 5B
Contact Size	5 - #16	5 - #16	5 - #12	2 - #4 / 3 - #8
Service Rating	Serv. INST.	Serv. A	Serv. A	Serv. D (A, B) Serv. A (C, D, E)

Note: Serv = Service Rating

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DMS E/F/R-F Series

Insert Arrangement List

Contact Size



#16

#12

#8

#4

#0

Front face of pin insert or rear face of socket insert illustrated.

Number of Contact	6		7		
Insert Arrangement					
Insert Number	14S - 6	36 - 3	16S - 1	20 - 15	24 - 10
Contact Size	6 - #16	3 - #0 / 3 - #12	7 - #16	7 - #12	7 - #8
Service Rating	Serv. INST.	Serv. D	Serv. A	Serv. A	Serv. A

Number of Contact	10		11
Insert Arrangement			
Insert Number	18 - 1	18 - 19	20 - 33
Contact Size	10 - #16	10 - #16	11 - #16
Service Rating	Serv.A (B,C,F,G) Serv.INST. (Others)	Serv. A	Serv. A

Number of Contact	14		17	19
Insert Arrangement				
Insert Number	20 - 27	22 - 19	20 - 29	22 - 14
Contact Size	14 - #16	14 - #16	17 - #16	19 - #16
Service Rating	Serv. A	Serv. A	Serv. A	Serv. A

Number of Contact	24	37	48
Insert Arrangement			
Insert Number	24 - 28	28 - 21	36 - 10
Contact Size	24 - #16	37 - #16	48 - #16
Service Rating	Serv. INST.	Serv. A	Serv. A

Note: Serv = Service Rating

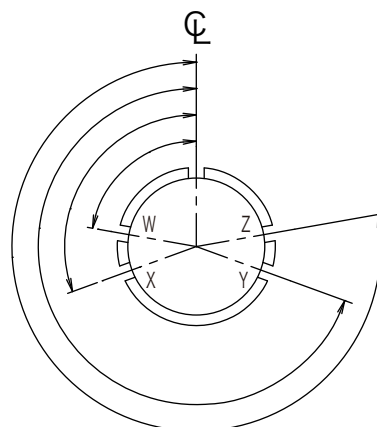
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Alternate Insert Position

Insert No	Key / Keyway No.			
	W	X	Y	Z
10SL-3	-	-	-	-
10SL-4	-	-	-	-
12S-3	70°	145°	215°	290°
14S-2	-	120°	240°	-
14S-5	-	110°	-	-
14S-6	-	-	-	-
14S-7	90°	180°	270°	-
16S-1	80°	180°	270°	-
16S-5	70°	145°	215°	290°
16S-8	-	170°	265°	-
16-9	35°	110°	250°	325°
16-10	90°	180°	270°	-
18-1	70°	145°	215°	290°
18-3	35°	110°	250°	325°
18-10	-	120°	240°	-
18-11	-	170°	265°	-
18-19	-	120°	240°	-
20-15	80°	-	-	280°
20-27	35°	110°	250°	325°
20-29	80°	-	-	280°
20-33	-	-	-	-
22-14	80°	110°	250°	280°
22-19	80°	110°	250°	280°
22-22	-	110°	250°	-
24-10	80°	-	-	280°
24-28	80°	110°	250°	280°
28-5B	-	-	-	-
28-21	80°	110°	250°	280°
32-17	45°	110°	250°	-
36-3	70°	145°	215°	290°
36-10	80°	125°	235°	280°



Front face of Pin Insert or Rear face of socket insert

 DMS E/F/R-F Series

Insert Specifications

Insert No	No.of Contacts	Contact Size					Service Rating
		#0	#4	#8	#12	#16	
10SL	10SL-3					3	A
	10SL-4					2	A
12S	12S-3					2	A
14S	14S-2					4	INST
	14S-5					5	INST
	14S-6					6	INST
	14S-7					3	A
16S	16S-1					7	A
	16S-5					3	A
	16S-8					5	A
16	16-9				2	2	A
	16-10				3		A
18	18-1					10	A (B, C, F, G) / INST(Other)
	18-3				2		D
	18-10				4		A
	18-11				5		A
	18-19					10	A
20	20-15				7		A
	20-27					14	A
	20-29					17	A
	20-33					11	A
22	22-14					19	A
	22-19					14	A
	22-22			4			A
24	24-10			7			A
	24-28					24	INST
28	28-5B		2	3			A (C, D, E) / D (A, B)
	28-21					37	A
32	32-17		4				D
36	36-3	3			3		D
	36-10					48	A

Note

10SL-3 and 10SL-4 arrangement available only with pin contacts in receptacle and socket contacts in plug (Example : DMS3102R10SL-3P-F, DMS3102R10SL-4P-F,DMS3106E10SL-3S-F, DMS3106E10SL-4S-F)

DMS E/F/R-F Part Numbering System

DMS E/F/R-F Series
MIL-DTL-5015

DMS 3106 F 20 - 29 S W G - F - BSS - 1 (R1)
1 2 3 4 5 6 7 8 9 10 11

1. Series
DMS

2.Shell Style

- 3100 : Wall connecting receptacle (in-line receptacle)
- 3101 : Cable connecting receptacle (in-line receptacle)
- 3102 : Box mounting receptacle
- 3106 : Straight plug
- 3108 : 90 degree angle plug

3.Service Class(Connector Class)

- E : Environmental with rubber insert
- F : Environmental with rubber insert and gasket (3106, 3108).
- R : Environmental with rubber insert and gasket (3102).
- R : Environmental with rubber insert and potting backshell (3100, 3101, 3106).

4.Shell Size

10SL, 12S, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36

5.Insert Arrangement

Refer to pages 4-5

6.Contact Configuration (style)

- P : Solder pin contacts
- S : Solder socket contacts
- PC : Crimp pin contacts
- SC : Crimp socket contacts

7.Insert Rotation

Omit : Normal position
W,"X","Y","Z" : Refer to page 6

8.Contact Plating

Omit : Silver Plating
G : Gold Plating

9.Finish

F : Catton Electrodeposition Coating (Black)

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10.Backshell Style

- BSS : With waterproof straight backshell
- BSL : With Long waterproof backshell
- BSN : With non - waterproof straight backshell
- Omit : Refer to the following name of articles
- 3100E /3101E : With waterproof straight backshell grommet and ferrule
- 3106E / F / R : With waterproof straight backshell grommet and ferrule
- 3108E / F : With waterproof angle backshell grommet and ferrule

11.Applicable Cable Diameter

- 0 : With non - waterproof cable clamp (Refer to table 1)
- 1 ~ 8 : With waterproof cable clamp (Refer to table 2)

Table 1

Number	Cable Clamp P/N	Shell Size	Bushing Used	Applicable Cable Diameter
0	DMS3057-4A-F(R1)	10SL, 12S	AN3420-4(R1)	φ 5.6 max
0	DMS3057-6A-F(R1)	14S	AN3420-6(R1)	φ 7.9 max
0	DMS3057-8A-F(R1)	16S, 16	AN3420-8(R1)	φ 11.1 max
0	DMS3057-10A-F(R1)	18	AN3420-10(R1)	φ 14.3 max
0	DMS3057-12A-F(R1)	20, 22	AN3420-12(R1)	φ 15.9 max
0	DMS3057-16A-F(R1)	24, 28	AN3420-16(R1)	φ 19.1 max
0	DMS3057-20A-F(R1)	32	AN3420-20(R1)	φ 23.8 max
0	DMS3057-24A-F(R1)	36	AN3420-24(R1)	φ 31.8 max

AN3420- □□ is an accessory which is designed to tighten the cable.
When you need thinner cable, you can duplicate or triplicate the rubber bushings.

Table 2

Number	Cable Clamp P/N	Shell Size	Bushing Used	Applicable Cable Diameter
1	CE3057-4A-1-F(R1)	10SL, 12S	CE3420-4-1(R1)	φ 3.6 — φ 5.6
1	CE3057-6A-1-F(R1)	14S	CE3420-6-1(R1)	φ 7.0 — φ 9.0
1	CE3057-8A-1-F(R1)	16S, 16	CE3420-8-1(R1)	φ 10.0 — φ 12.0
2	CE3057-8A-2-F(R1)		CE3420-8-2(R1)	φ 8.5 — φ 10.5
1	CE3057-10A-1-F(R1)	18	CE3420-10-1(R1)	φ 10.5 — φ 14.1
2	CE3057-10A-2-F(R1)		CE3420-10-2(R1)	φ 8.5 — φ 11.0
3	CE3057-10A-3-F(R1)	20, 22	CE3420-10-3(R1)	φ 6.5 — φ 8.7
1	CE3057-12A-1-F(R1)		CE3420-12-1(R1)	φ 12.5 — φ 16.0
2	CE3057-12A-2-F(R1)		CE3420-12-2(R1)	φ 9.5 — φ 13.0
3	CE3057-12A-3-F(R1)		CE3420-12-3(R1)	φ 6.8 — φ 10.0
7	CE3057-12A-7-F(R1)	24, 28	CE3420-12-7(R1)	φ 14.5 — φ 17.0
1	CE3057-16A-1-F(R1)		CE3420-16-1(R1)	φ 15.0 — φ 19.1
2	CE3057-16A-2-F(R1)		CE3420-16-2	φ 13.0 — φ 15.5
4	CE3057-16A-4-F(R1)		CZY005-GB-3(R1)	φ 19.1 — φ 21.5
6	CE3057-16A-6-F(R1)	32	CE3420-16-6	φ 18.5 — φ 20.0
7	CE3057-16A-7-F(R1)		CE3420-16-7	φ 11.5 — φ 13.5
8	CE3057-16A-8-F(R1)		CZY005-GB-6(R1)	φ 10.5 — φ 12.5
1	CE3057-20A-1-F(R1)		CE3420-20-1(R1)	φ 22.0 — φ 23.8
2	CE3057-20A-2-F(R1)	36	CE3420-20-2(R1)	φ 24.0 — φ 26.6
3	CE3057-20A-3-F(R1)		CZY005-GB-5(R1)	φ 21.0 — φ 22.5
1	CE3057-24A-1-F(R1)	36	CE3420-24-1(R1)	φ 30.0 — φ 32.5
2	CE3057-24A-2-F(R1)		CE3420-24-2(R1)	φ 27.5 — φ 29.6
3	CE3057-24A-3-F(R1)		AN3420-24(D24φ)(R1)	φ 29.0 — φ 31.0

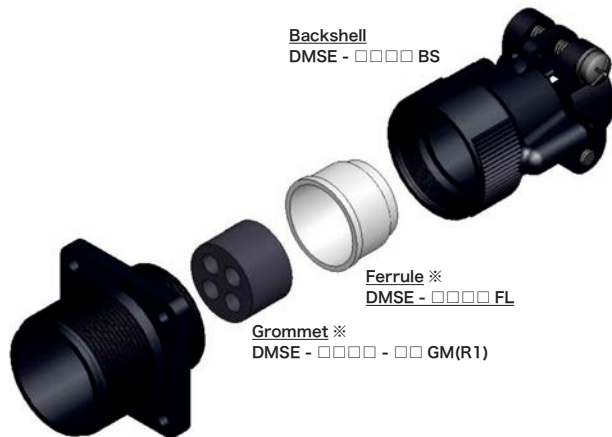
DMS E/F/R-F Series

Wall Receptacle Connector

DMS3100E □□□□ - □□ P / S □□ - F - □□□ - □ (R1)

※ Attached Articles

DMS3100E □□□□ - □□ P / S □□ - F(R1)



DMS3100E □□□□ - □□ P / S □□ - F - BS □ - □ (R1)

Cable Clamp ※
CE3057 - □□ A - □ - F(R1)

Waterproof Straight Backshell
DMSE - □□□□ BSS-F(R1)



DMS3100E □□□□ - □□ P / S □□ - F - BSN - □ (R1)



Waterproof Long Straight Backshell
DMSE - □□□□ BSSL-F(R1)

DMS3100E □□□□ - □□ P / S □□ - F - BA - □ (R1)



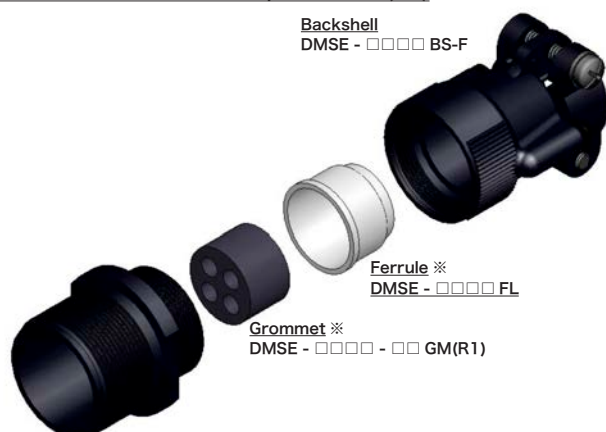
▶ DMS E/F/R-F Series

Cable Receptacle Connector

DMS3101E □□□□ - □□ P / S □□ - F - □□□ - □ (R1)

※ Attached Articles

DMS3101E □□□□ - □□ P / S □□ - □ - F(R1)



DMS3101E □□□□ - □□ P / S □□ - F - BS□ - □ (R1)



DMS3101E □□□□ - □□ P / S □□ - F - BSN - □ (R1)



DMS3101E □□□□ - □□ P / S □□ - F - BA - □ (R1)



▶ DMS E/F/R-F Series

Box Mounting Receptacle Connector

DMS3102E □□□□ - □□□□□ -F(R1)

DMS3102R □□□□ - □□□□□ -F (R1)(With Gasket)

DMS3102E □□□□ - □□ P / S □□ -F(R1)



DMS3102R □□□□ - □□ P / S □□ -F(R1)



Gasket

DMS E/F/R-F Series

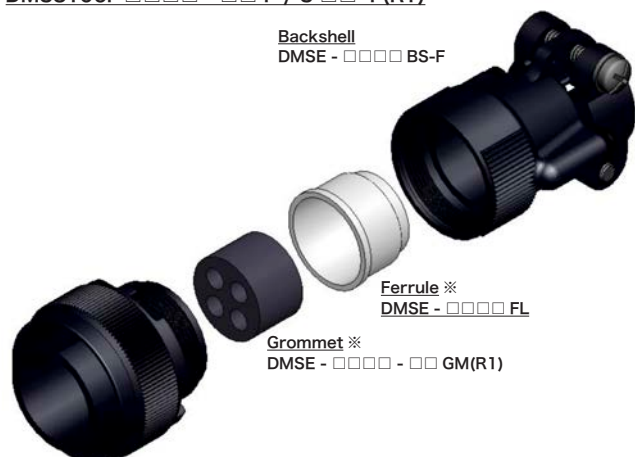
Straight Plug Connector

DMS3106E □□□□ - □□□□ -F(R1)

DMS3106F □□□□ - □□□□ -F (R1)(With Gasket)

※ Attached Articles

DMS3106F □□□□ - □□ P / S □□ -F(R1)



DMS3106F □□□□ - □□ P / S □□ - F - BS □ - □ (R1)

Cable Clamp ※
CE3057 - □□ A - □ -F(R1)

Waterproof Straight Backshell
DMSE - □□□□ BSS-F(R1)



DMS3106E □□□□ - □□ P / S □□ - F - BSN - 0(R1)



DMS3106R □□□□ - □□ P / S □□ -F(R1)

Backshell (Type - R)
DMSE - □□□□ BSR-F



▶ DMS E/F/R-F Series

Angle Plug Connector

DMS3108E □□□□ - □□□□□ - F(R1)

DMS3108F □□□□ - □□□□□ - F(R1)(With Gasket)

※ Attached Articles

DMS3108F □□□□ - □□ P / S □□ -F(R1)

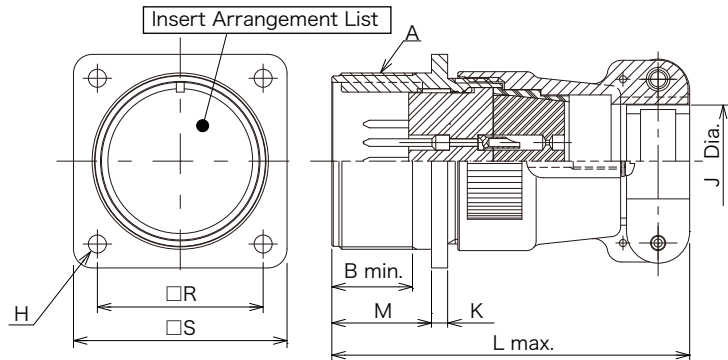
Angle Backshell
DMSE - □□□□ BA-F



DMS E/F/R-F Series

Wall Receptacle Connector

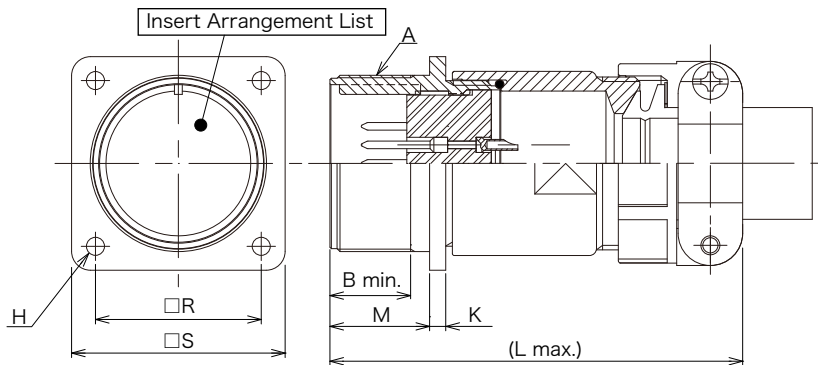
DMS3100E □□□□ - □□□□□ - F(R1)



Shell Size	A	B	K±0.05	L	M ^{+0.78 0}	R±0.12	S±0.5	φ H ^{+0.25 -0.12}	φ J±0.3
10SL	5/8-24UNEF	11	2.2	51	14.5	18.26	25.40	3.0	8.0
12S	3/4-20UNEF	12	3.0	52	14.6	20.62	27.80	3.3	8.3
14S	7/8-20UNEF	11	2.9	54	14.6	23.01	30.18	3.3	11.1
16S	1-20UNEF	12	3.2	60	14.5	24.61	32.54	3.3	14.2
16	1-20UNEF	16	2.9	65	19.5	24.61	32.54	3.3	14.2
18	1 1/8-18UNEF	16	4.2	69	19.2	26.94	34.93	3.3	15.8
20	1 1/4-18UNEF	16	3.7	68	19.2	29.36	38.10	3.3	19.1
22	1 3/8-18UNEF	16	4.0	68	19.2	31.75	41.28	3.3	19.1
24	1 1/2-18UNEF	17	3.4	77	21.0	34.93	45.00	3.8	24.0
28	1 3/4-18UNS	18	3.4	75	21.3	39.67	50.80	3.8	24.0
32	2-18UNS	18	4.0	77	22.5	44.45	57.15	4.5	32.0
36	2 1/4-16UN	18	4.1	76	22.4	49.20	63.50	4.5	38.0

Wall Receptacle Connector

DMS3100E □□□□ - □□□□□ - F- BSS - □ (R1)



Shell Size	A	B	K±0.05	L	M ^{+0.78 0}	R±0.12	S±0.5	φ H ^{+0.25 -0.12}
10SL	5/8-24UNEF	11	2.2	56	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12	3.0	57	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11	2.9	64	14.6	23.01	30.18	3.3
16S	1-20UNEF	12	3.2	69	14.5	24.61	32.54	3.3
16	1-20UNEF	16	2.9	71	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16	4.2	72	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16	3.7	73	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16	4.0	78	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17	3.4	89	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18	3.4	95	21.3	39.67	50.80	3.8
32	2-18UNS	18	4.0	104	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18	4.1	110	22.4	49.20	63.50	4.5

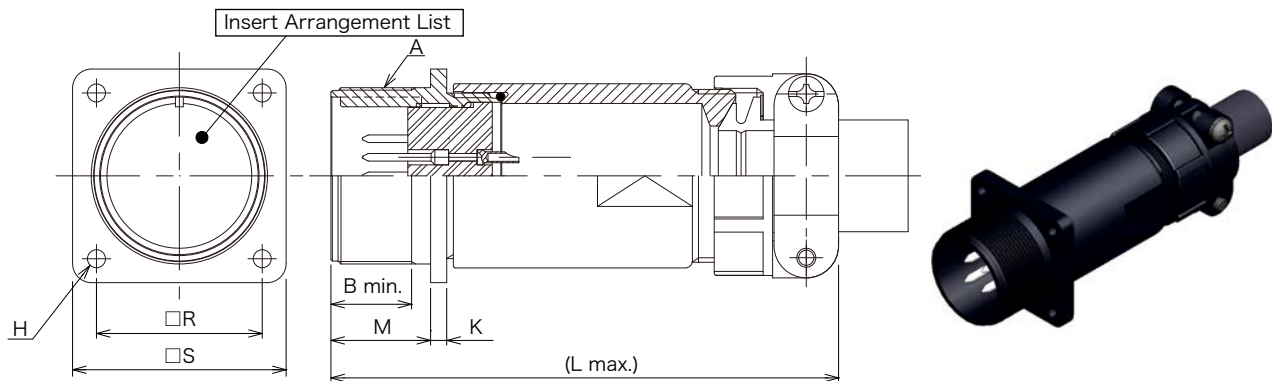
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DMS E/F/R-F Series

Wall Receptacle Connector

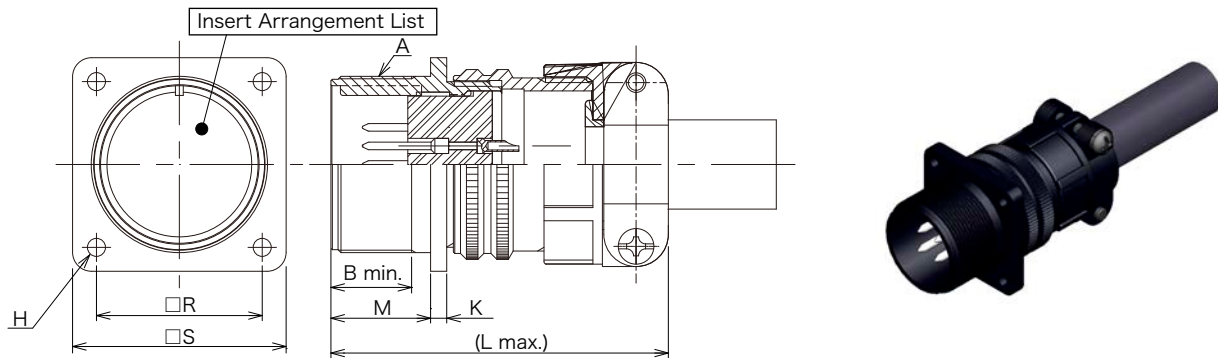
DMS3100E □□□□ - □□□□□ F - BSL - □ (R1)



Shell Size	A	B	K±0.05	L	M ^{+0.78 0}	R±0.12	S±0.5	φ H ^{+0.25 -0.12}
10SL	5/8-24UNEF	11	2.2	76	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12	3.0	77	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11	2.9	84	14.6	23.01	30.18	3.3
16S	1-20UNEF	12	3.2	85	14.5	24.61	32.54	3.3
16	1-20UNEF	16	2.9	91	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16	4.2	112	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16	3.7	93	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16	4.0	98	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17	3.4	109	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18	3.4	115	21.3	39.67	50.80	3.8
32	2-18UNS	18	4.0	124	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18	4.1	130	22.4	49.20	63.50	4.5

Wall Receptacle Connector

DMS3100E □□□□ - □□□□□ - F - BSN - □ (R1)



Shell Size	A	B	K±0.05	L	M ^{+0.78 0}	R±0.12	S±0.5	φ H ^{+0.25 -0.12}
10SL	5/8-24UNEF	11	2.2	50	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12	3.0	56	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11	2.9	55	14.6	23.01	30.18	3.3
16S	1-20UNEF	12	3.2	58	14.5	24.61	32.54	3.3
16	1-20UNEF	16	2.9	63	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16	4.2	67	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16	3.7	70	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16	4.0	69	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17	3.4	73	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18	3.4	75	21.3	39.67	50.80	3.8
32	2-18UNS	18	4.0	76	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18	4.1	80	22.4	49.20	63.50	4.5

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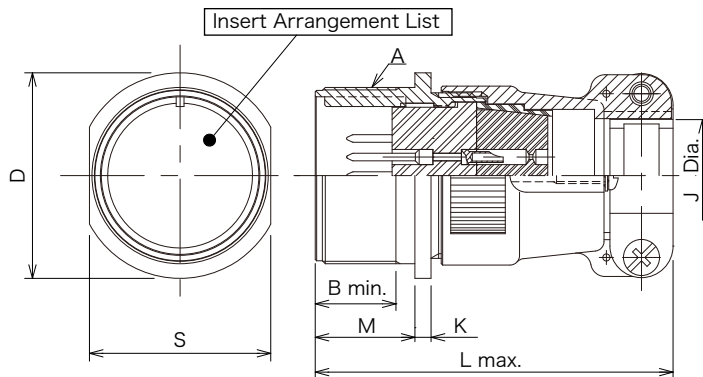
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DMS E/F/R-F Series

Cable Receptacle Connector

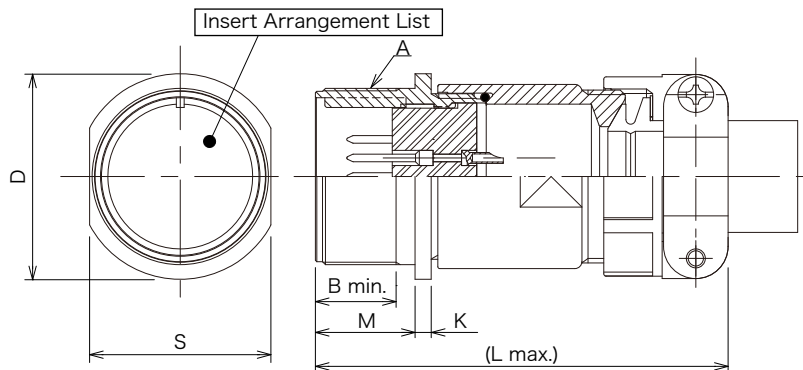
DMS3101E □□□□ - □□□□□ - F(R1)



Shell Size	A	B	L	$\phi D \pm 0.5$	$S \pm 0.5$	$\phi J \pm 0.3$
10SL	5/8-24UNEF	11	51	22.0	16.5	8.0
12S	3/4-20UNEF	12	52	25.0	19.3	8.3
14S	7/8-20UNEF	11	54	28.0	22.6	11.1
16S	1-20UNEF	12	60	31.0	25.5	14.2
16	1-20UNEF	16	65	31.0	25.5	14.2
18	1 1/8-18UNEF	16	69	33.9	28.7	15.8
20	1 1/4-18UNEF	16	68	37.0	32.0	19.1
22	1 3/8-18UNEF	16	68	40.0	35.0	19.1
24	1 1/2-18UNEF	17	77	43.3	38.2	24.0
28	1 3/4-18UNS	18	75	49.5	44.7	24.0
32	2-18UNS	18	77	55.5	50.8	32.0
36	2 1/4-16UN	18	76	62.3	57.3	38.0

Cable Receptacle Connector

DMS3101E □□□□ - □□□□□ - F- BSS - □ (R1)



Shell Size	A	B	L	$\phi D \pm 0.5$	$S \pm 0.5$
10SL	5/8-24UNEF	11	56	22.0	16.5
12S	3/4-20UNEF	12	57	25.0	19.3
14S	7/8-20UNEF	11	64	28.0	22.6
16S	1-20UNEF	12	65	31.0	25.5
16	1-20UNEF	16	71	31.0	25.5
18	1 1/8-18UNEF	16	72	33.9	28.7
20	1 1/4-18UNEF	16	73	37.0	32.0
22	1 3/8-18UNEF	16	78	40.0	35.0
24	1 1/2-18UNEF	17	89	43.3	38.2
28	1 3/4-18UNS	18	95	49.5	44.7
32	2-18UNS	18	104	55.5	50.8
36	2 1/4-16UN	18	110	62.3	57.3

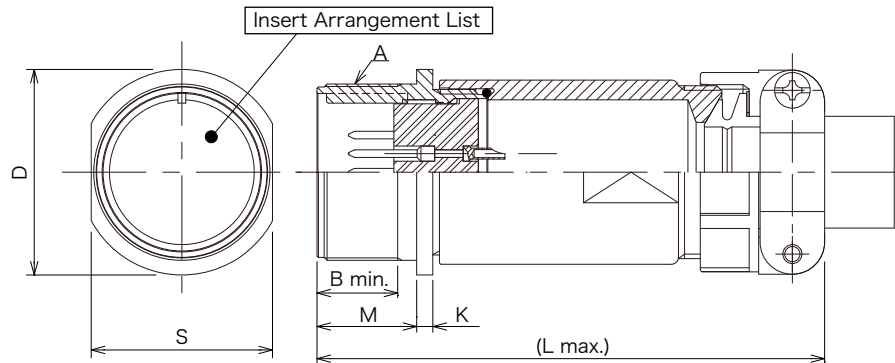
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DMS E/F/R-F Series

Cable Receptacle Connector

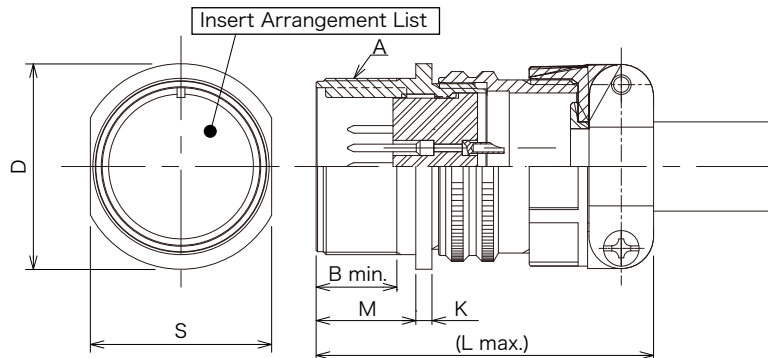
DMS3101E□□□□ - □□□□□ - F - BSL - □ (R1)



Shell Size	A	B	L	$\phi D \pm 0.5$	$S \pm 0.5$
10SL	5/8-24UNEF	11	76	22.0	16.5
12S	3/4-20UNEF	12	77	25.0	19.3
14S	7/8-20UNEF	11	84	28.0	22.6
16S	1-20UNEF	12	85	31.0	25.5
16	1-20UNEF	16	91	31.0	25.5
18	1 1/8-18UNEF	16	92	33.9	28.7
20	1 1/4-18UNEF	16	93	37.0	32.0
22	1 3/8-18UNEF	16	98	40.0	35.0
24	1 1/2-18UNEF	17	109	43.3	38.2
28	1 3/4-18UNS	18	115	49.5	44.7
32	2-18UNS	18	124	55.5	50.8
36	2 1/4-16UN	18	130	62.3	57.3

Cable Receptacle Connector

DMS3101E□□□□ - □□□□□ - F - BSN - □ (R1)



Shell Size	A	B	L	$\phi D \pm 0.5$	$S \pm 0.5$
10SL	5/8-24UNEF	11	50	22.0	16.5
12S	3/4-20UNEF	12	56	25.0	19.3
14S	7/8-20UNEF	11	55	28.0	22.6
16S	1-20UNEF	12	58	31.0	25.5
16	1-20UNEF	16	63	31.0	25.5
18	1 1/8-18UNEF	16	67	33.9	28.7
20	1 1/4-18UNEF	16	70	37.0	32.0
22	1 3/8-18UNEF	16	69	40.0	35.0
24	1 1/2-18UNEF	17	73	43.3	38.2
28	1 3/4-18UNS	18	75	49.5	44.7
32	2-18UNS	18	76	55.5	50.8
36	2 1/4-16UN	18	80	62.3	57.3

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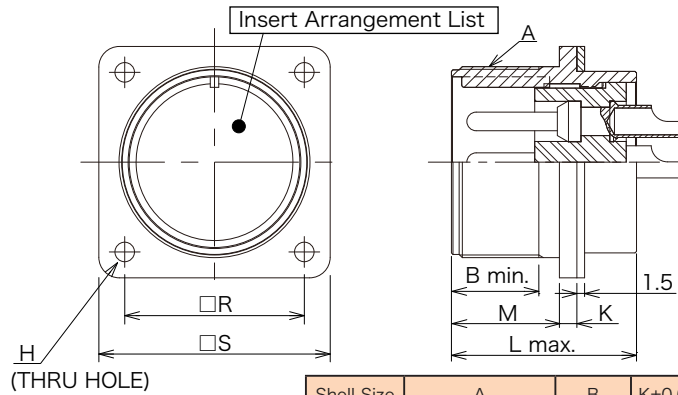
<https://www.connector.fujikura.com>

DMS E/F/R-F Series

Box Receptacle Connector

DMS3102E □□□□ - □□□□□ - F(R1)

DMS3102R □□□□ - □□□□□ - F (R1)(With Gasket)

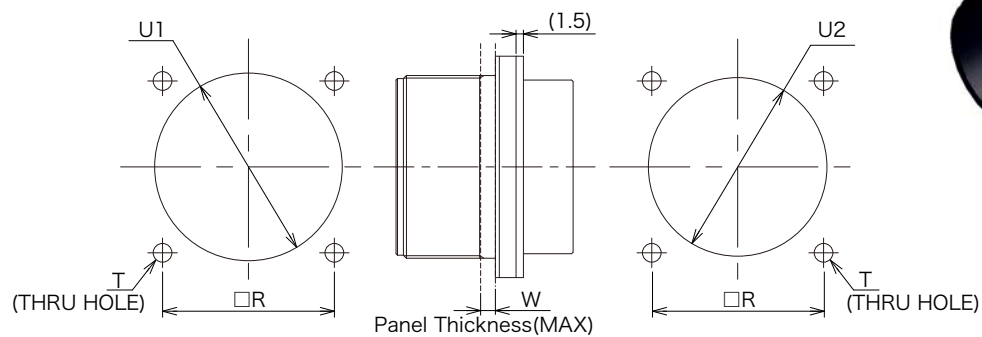


Shell Size	A	B	K±0.05	L	M ^{+0.78} ₀	R±0.12	S±0.5	φ H ^{+0.25} _{-0.12}
10SL	5/8-24UNEF	11	2.2	25.0	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12	3.0	27.0	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11	2.9	26.5	14.6	23.01	30.18	3.3
16S	1-20UNEF	12	3.2	25.6	14.5	24.61	32.54	3.3
16	1-20UNEF	16	2.9	33.3	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16	4.2	33.4	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16	3.7	32.1	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16	4.0	35.0	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17	3.4	36.0	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18	3.4	36.7	21.3	39.67	50.80	3.8
32	2-18UNS	18	4.0	39.0	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18	4.1	39.5	22.4	49.20	63.50	4.5

Box Receptacle Connector

DMS3102E □□□□ - □□□□□ - F(R1)

DMS3102R □□□□ - □□□□□ - F(R1)(With Gasket)



Shell Size	R±0.12	φ U1 ^{+0.2} ₀	φ U2 ^{+0.2} ₀	T	W
10SL	18.26	15.5	16.7	3.05	3.0
12S	20.62	16.8	19.9	3.05	3.0
14S	23.01	20.0	23.1	3.05	3.0
16S	24.61	23.0	26.3	3.05	3.0
16	24.61	22.9	26.3	3.05	3.0
18	26.94	27.0	29.4	3.05	3.0
20	29.36	30.0	32.6	3.05	3.0
22	31.75	33.0	35.8	3.05	3.0
24	34.93	36.3	39.0	3.75	3.0
28	39.67	43.0	45.3	3.75	3.0
32	44.45	48.3	51.6	4.40	3.0
36	49.23	54.3	57.9	4.40	3.0

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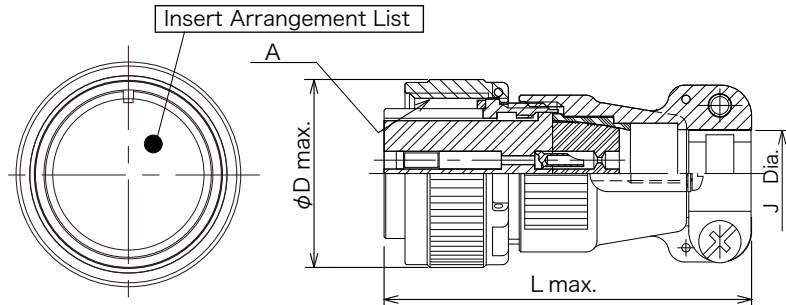
<https://www.connector.fujikura.com>

► DMS E/F/R-F Series

Straight Plug Connector

DMS3106E □□□□ - □□□□□ - F(R1)

DMS3106F □□□□ - □□□□□ - F(R1)(With Gasket)

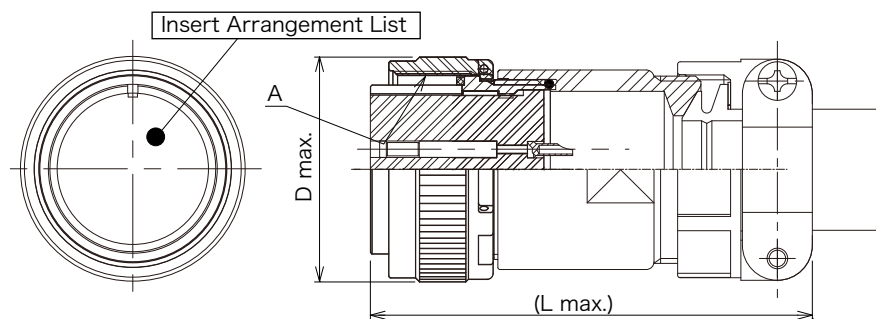


Shell Size	A	L	φ D	φ J±0.3
10SL	5/8-24UNEF	51	22.30	8.0
12S	3/4-20UNEF	51	26.25	8.3
14S	7/8-20UNEF	53	28.90	11.1
16S	1-20UNEF	59	31.90	14.2
16	1-20UNEF	63	31.90	14.2
18	1 1/8-18UNEF	67	33.80	15.8
20	1 1/4-18UNEF	67	37.55	19.1
22	1 3/8-18UNEF	68	40.85	19.1
24	1 1/2-18UNEF	76	43.70	24.0
28	1 3/4-18UNS	74	50.70	24.0
32	2-18UNS	74	57.20	32.0
36	2 1/4-16UN	72	63.40	38.0

Straight Plug Connector

DMS3106E □□□□ - □□□□□ - F(R1)

DMS3106F □□□□ - □□□□□ - F - BSS - □ (R1)(With Gasket)



Shell Size	A	L	φ D
10SL	5/8-24UNEF	56	22.30
12S	3/4-20UNEF	56	26.25
14S	7/8-20UNEF	62	28.90
16S	1-20UNEF	65	31.90
16	1-20UNEF	70	31.90
18	1 1/8-18UNEF	70	33.80
20	1 1/4-18UNEF	72	37.55
22	1 3/8-18UNEF	78	40.85
24	1 1/2-18UNEF	88	43.70
28	1 3/4-18UNS	93	50.70
32	2-18UNS	102	57.20
36	2 1/4-16UN	105	63.40

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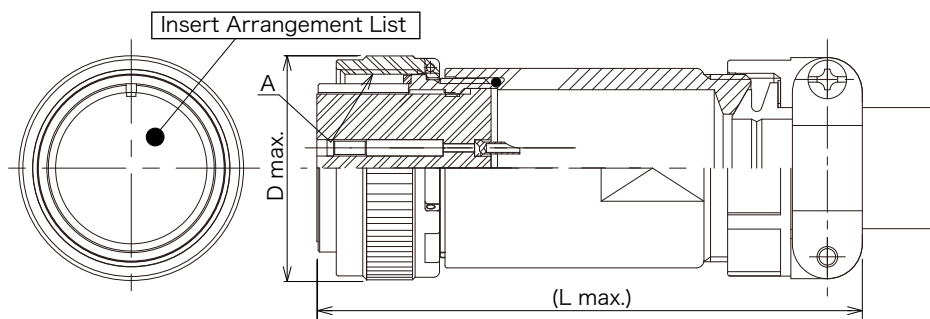
<https://www.connector.fujikura.com>

► DMS E/F/R-F Series

Straight Plug Connector

DMS3106E □□□□ - □□□□□ - F(R1)

DMS3106F □□□□ - □□□□□ - F - BSL - □ (R1)(With Gasket)



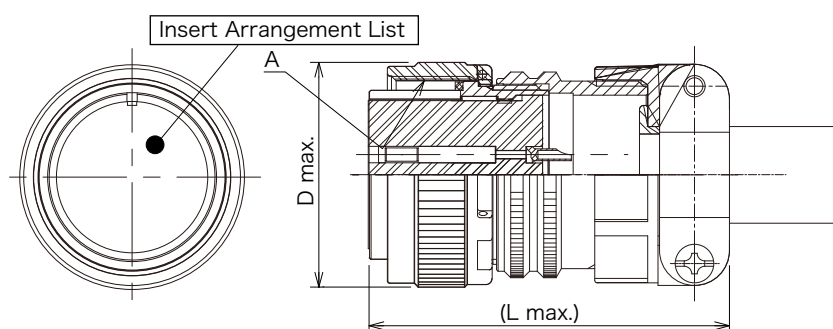
Shell Size	A	L	φ D
10SL	5/8-24UNEF	76	22.30
12S	3/4-20UNEF	76	26.25
14S	7/8-20UNEF	82	28.90
16S	1-20UNEF	85	31.90
16	1-20UNEF	90	31.90
18	1 1/8-18UNEF	90	33.80
20	1 1/4-18UNEF	92	37.55
22	1 3/8-18UNEF	98	40.85
24	1 1/2-18UNEF	108	43.70
28	1 3/4-18UNS	113	50.70
32	2-18UNS	122	57.20
36	2 1/4-16UN	125	63.40



Straight Plug Connector

DMS3106E □□□□ - □□□□□ - F(R1)

DMS3106F □□□□ - □□□□□ - F - BSN - □ (R1)(With Gasket)



Shell Size	A	L	φ D
10SL	5/8-24UNEF	50	22.30
12S	3/4-20UNEF	55	26.25
14S	7/8-20UNEF	63	28.90
16S	1-20UNEF	57	31.90
16	1-20UNEF	63	31.90
18	1 1/8-18UNEF	65	33.80
20	1 1/4-18UNEF	69	37.55
22	1 3/8-18UNEF	66	40.85
24	1 1/2-18UNEF	72	43.70
28	1 3/4-18UNS	73	50.70
32	2-18UNS	74	57.20
36	2 1/4-16UN	75	63.40



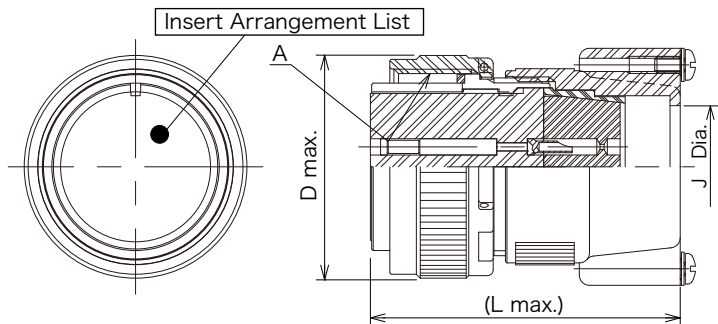
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► DMS E/F/R-F Series

Straight Plug Connector

DMS3106R □□□□ - □□□□□ - F(R1)(With Gasket)



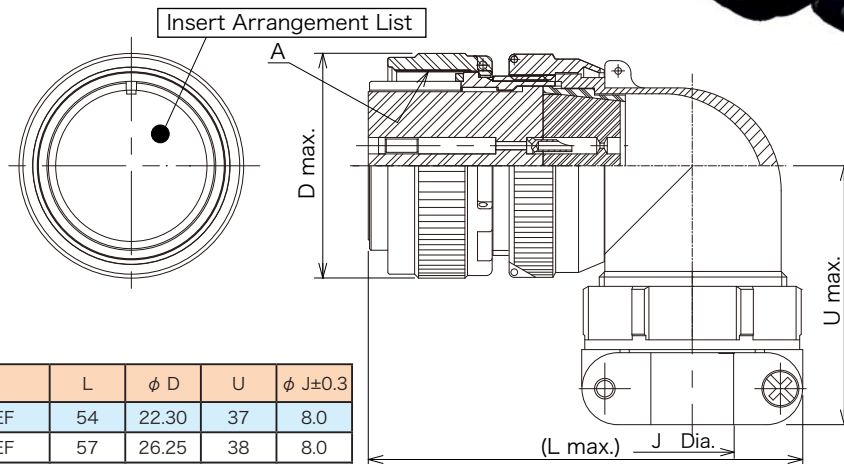
Shell Size	A	L	φ D	φ J±0.3
10SL	5/8-24UNEF	42	22.30	8.0
12S	3/4-20UNEF	43	26.25	8.3
14S	7/8-20UNEF	43	28.90	11.1
16S	1-20UNEF	47	31.90	14.2
16	1-20UNEF	51	31.90	14.2
18	1 1/8-18UNEF	55	33.80	15.8
20	1 1/4-18UNEF	55	37.55	19.1
22	1 3/8-18UNEF	56	40.85	19.1
24	1 1/2-18UNEF	61	43.70	24.0
28	1 3/4-18UNS	60	50.70	24.0
32	2-18UNS	60	57.20	32.0
36	2 1/4-16UN	58	63.40	38.0



Angle Plug Connector

DMS3108E □□□□ - □□□□□ - F(R1)

DMS3108F □□□□ - □□□□□ - F(R1)(With Gasket)



Shell Size	A	L	φ D	U	φ J±0.3
10SL	5/8-24UNEF	54	22.30	37	8.0
12S	3/4-20UNEF	57	26.25	38	8.0
14S	7/8-20UNEF	59	28.90	40	11.0
16S	1-20UNEF	65	31.90	47	14.2
16	1-20UNEF	69	31.90	47	14.2
18	1 1/8-18UNEF	69	33.80	46	15.8
20	1 1/4-18UNEF	76	37.55	47	19.0
22	1 3/8-18UNEF	79	40.85	52	19.0
24	1 1/2-18UNEF	86	43.70	54	23.8
28	1 3/4-18UNS	85	50.70	56	23.8
32	2-18UNS	101	57.20	67	32.0
36	2 1/4-16UN	101	63.40	71	38.0



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DMS E/F/R-F Series

Accessories

---Backshell---

Backshell

DMSE - □□□□ BS-F



Waterproof Straight Backshell

DMSE - □□□□ BSS - F(R1)



Waterproof Long Straight Backshell

DMSE - □□□□ BSSL - F(R1)



Straight Backshell

DMSE - □□□□ BSN - F



Angle Backshell

DMSE - □□□□ BA - F



Backshell (Type-R)

DMSE - □□□□ BSR - F



Front Gasket of Receptacle

DMSE - □□□□ FG(R1)



Rear Gasket of Receptacle

DMSE - □□□□ RG(R1)



※ Even if white powder appear on the Gasket surface,the performance is not affected.

※ Even if white powder appear on the Gasket surface,the performance is not affected.

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▶ DMS E/F/R-F Series

Accessories

---Cable Clamp---

Cable Clamp

DMS3057 - □□ A - F(R1)



Waterproof Cable Clamp

CE3057 - □□ A - □ - F(R1)



---Bushing---

Rubber Bushing

AN3420 - □□ (R1)



※ Even if white powder appear on the Bushing surface,the performance is not affected.

Environmental Bushing

CE3420 - □□ - □ (R1)



※ Even if white powder appear on the Bushing surface,the performance is not affected.

 DMS E/F/R-F Series

Crimp Tool for DMS-E/F/R-F Crimp Contacts

		TOOL						
		Applicable Wire	Crimp Tool Body		LOCATOR	GAGE	Semi-automatic	Note
Contact P/N	Contact Size	AWG	MILITARY P/N	DMC P/N	P/N		DMC P/N	
DMSE-#12P □ -C1	#12	4mm²	M22520/1-01	AF8	357J-53229T (with stopper)	M22520/3-1 G125	WA27F	Note: Stopper for 7 kinds of contacts will be attached to each locator part number.
DMSE-#12S □ -C1								
DMSE-#12P □ -C2	#12	AWG14-12	M22520/1-01	AF8				
DMSE-#12S □ -C2								
DMSE-#12P □ -C3	#12	AWG18-16	M22520/1-01	AF8				
DMSE-#12S □ -C3								
DMSE-S#16P □ -C1	#16	AWG18-16	M22520/1-01	AF8	357J-53230T (with stopper)		WA27F	
DMSE-#16P □ -C1								
DMSE-L#16P □ -C1								
DMSE-SS#16S □ -C1								
DMSE-S#16S □ -C1								
DMSE-#16S □ -C1								
DMSE-L#16S □ -C1								
DMSE-S#16P □ -C2	#16	AWG18-22	M22520/1-01	AF8				
DMSE-#16P □ -C2								
DMSE-L#16P □ -C2								
DMSE-SS#16S □ -C2								
DMSE-S#16S □ -C2								
DMSE-#16S □ -C2								
DMSE-L#16S □ -C2								
DMSE-S#16P □ -C3	#16	AWG26-22	M22520/1-01	AF8				
DMSE-#16P □ -C3								
DMSE-L#16P □ -C3								
DMSE-SS#16S □ -C3								
DMSE-S#16S □ -C3								
DMSE-#16S □ -C3								
DMSE-L#16S □ -C3								

Note : DMC stands for Daniels Manufacturing Corporation.

 DMS E/F/R-F Series

Crimp Tool for DMS-E/F/R-F Crimp Contacts

Contact P/N	Contact Size	Applicable Wire AWG	DMC P/N	DMC DIE ASSEMBLY P/N	LOKATOR P/N
DMSE-#0P □ -C1	#0	AWG 0 50mm ² AWG 2 (35mm ²) AWG 4 (25mm ²) 16mm ²	WA23	WA23-5	357J-53244T
DMSE-#0P □ -C2					
DMSE-#0P □ -C3					
DMSE-#0P □ -C4					
DMSE-#0P □ -C5					
DMSE-#0S □ -C1					
DMSE-#0S □ -C2					
DMSE-#0S □ -C3					
DMSE-#0S □ -C4					
DMSE-#0S □ -C5					
DMSE-L#0P □ -C1					
DMSE-L#0P □ -C2					
DMSE-L#0P □ -C3					
DMSE-L#0P □ -C4					
DMSE-L#0P □ -C5					
DMSE-L#0S □ -C1					
DMSE-L#0S □ -C2					
DMSE-L#0S □ -C3					
DMSE-L#0S □ -C4					
DMSE-L#0S □ -C5					
DMSE-#4P □ -C1	#4	AWG 4 16mm ² AWG 6 10mm ²		WA23-4	357J-53246T
DMSE-#4P □ -C2					
DMSE-#4P □ -C3					
DMSE-#4P □ -C4					
DMSE-#4S □ -C1					
DMSE-#4S □ -C2					
DMSE-#4S □ -C3					
DMSE-#4S □ -C4					
DMSE-L#4P □ -C1					
DMSE-L#4P □ -C2					
DMSE-L#4P □ -C3					
DMSE-L#4P □ -C4					
DMSE-L#4S □ -C1					
DMSE-L#4S □ -C2					
DMSE-L#4S □ -C3					
DMSE-L#4S □ -C4					
DMSE-#8P □ -C1	#8	10mm ² AWG 8 AWG 10 AWG 14/12		WA23-2	357J-53248T
DMSE-#8P □ -C2					
DMSE-#8P □ -C3					
DMSE-#8P □ -C4					
DMSE-#8S □ -C1					
DMSE-#8S □ -C2					
DMSE-#8S □ -C3					
DMSE-#8S □ -C4					
DMSE-L#8P □ -C1					
DMSE-L#8P □ -C2					
DMSE-L#8P □ -C3					
DMSE-L#8P □ -C4					
DMSE-L#8S □ -C1					
DMSE-L#8S □ -C2					
DMSE-L#8S □ -C3					
DMSE-L#8S □ -C4					