

DMS E/F/R Series

MIL-C-5015 Compatible Environment Resistant Type.

《Outline》

DDK'S 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 series are compatible and comply with MIL-C-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.

《Features》

- * Synthetic rubber inserts.
- * Grommet for moisture-proof.
- * Unified backshell with cable clamp.
- * Grommet and cable clamp combination for extra strength to hold cable.
- * Solder termination contacts.

《Application》

The DMS E/F/R 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.

《Material / Finish》

- Contact : Copper Alloy / Silver Plating
- Insert : Ethylene Propylene Rubber / Black
- Shell : Aluminum Alloy / Zinc Plating ,
Black chromate finish.
Olive drab chromate finish.

Receptacle Connector



Wall Receptacle
DMS3100E



Cable Receptacle
DMS3101E



Box Receptacle
DMS3102E / R

Plug Connector



Straight Plug
DMS3106E / F

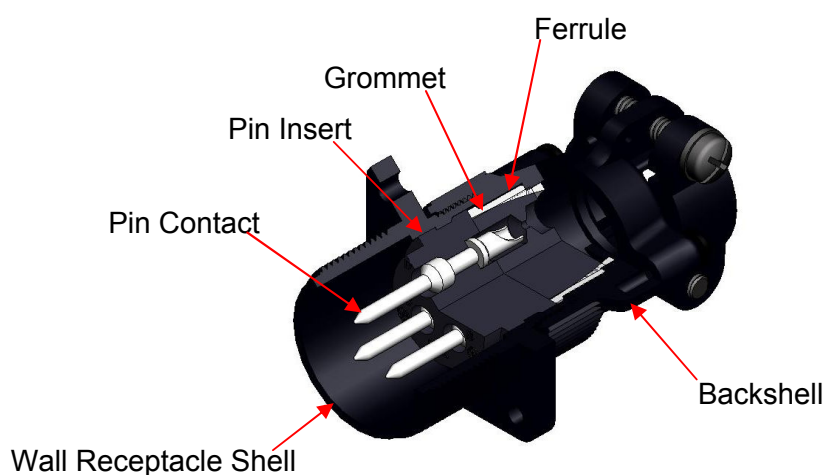


Angle Plug
DMS3108E / F

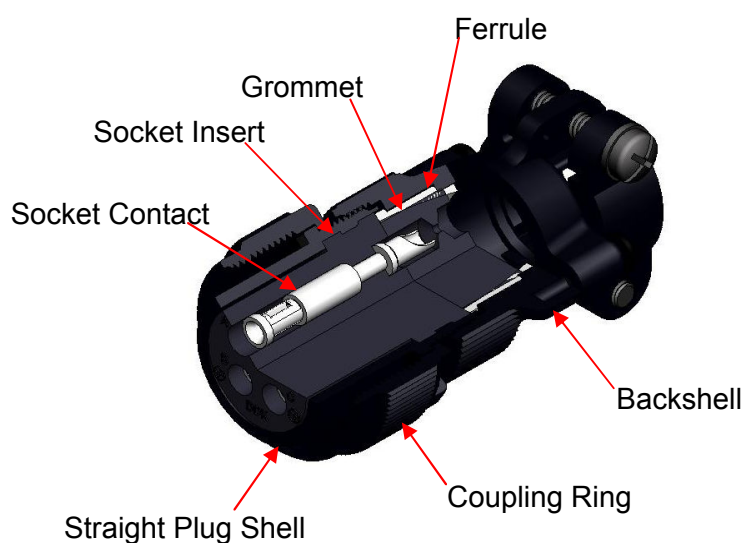
Specification

Insulation Resistance	More than 500MΩ at DC500V (at 25°C degree)
Temperature Range	-55°C ~ +125°C
Durability	500 cycle mating / unmating operations
Thermal Shock	MIL-STD-202 method 107 Temperature range of -55°C ~ +125°C
Humidity	Relative humidity : 95%±3% Temperature : 71°C±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



Wall Receptacle Connector
DMS3100E□□□□-□□P□-□

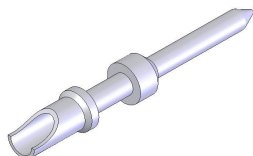


Straight Plug Connector
DMS3106□□□□□-□□S□-□

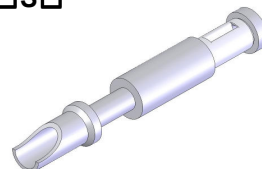
CONTACT

Solder Type

Pin Contact
DMSE - #□□P□

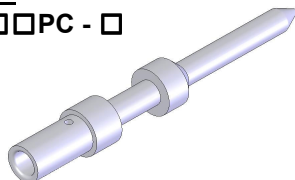


Socket Contact
DMSE - #□□S□

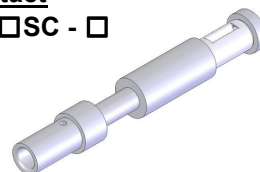


Crimp Type

Pin Contact
DMSE - #□□PC - □



Socket Contact
DMSE - #□□SC - □



■ 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

■ Current Rating ■

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

■ Voltage Rating ■

Service Rating	Voltage Rating(V)	
	DC	AC (r.m.s)
INST	250	200
A	700	500
D	1250	900
E	1750	1250
B	2450	1750
C	4200	3000

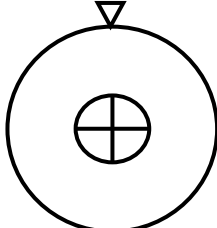
Insert Arrangement List

Contact Size



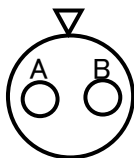
Front face of pin insert or rear face of socket insert illustrated.

1 Contacts

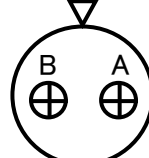


20 - 2
1 - #0
Serv. D

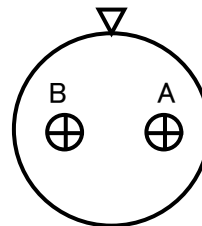
2 Contacts



10SL - 4
2 - #16
Serv. A

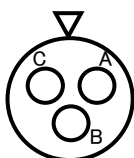


12S - 3
2 - #12
Serv. A

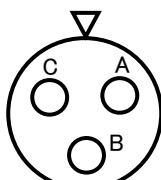


18 - 3
2 - #12
Serv. D

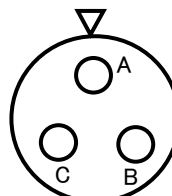
3 Contacts



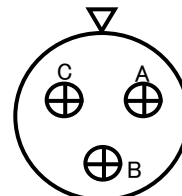
10SL - 3
3 - #16
Serv. A



14S - 7
3 - #16
Serv. A

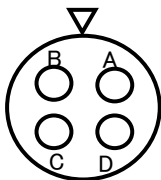


16S - 5
3 - #16
Serv. A

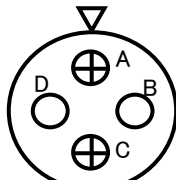


16 - 10
3 - #12
Serv. A

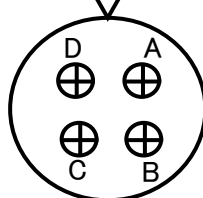
4 Contacts



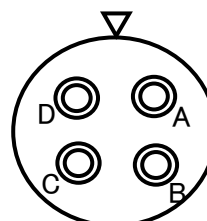
14S - 2
4 - #16
Serv. INST.



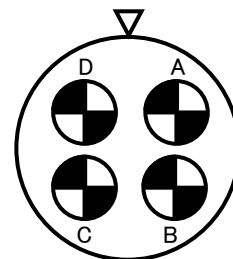
16 - 9
2 - #16 / 2 - #12
Serv. A



18 - 10
4 - #12
Serv. A

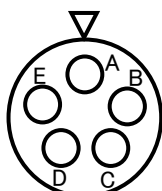


22 - 22
4 - #8
Serv. A

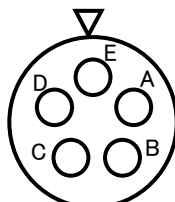


32 - 17
4 - #4
Serv. D

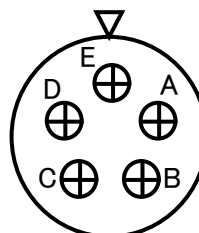
5 Contacts



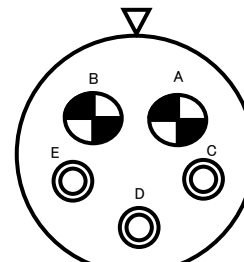
14S - 5
5 - #16
Serv. INST.



16S - 8
5 - #16
Serv. A



18 - 11
5 - #12
Serv. A



28 - 5B
2 - #4 / 3 - #8
Serv. D (A, B)
Serv. A (C, D, E)

Note: Serv = Service Rating

Insert Arrangement List

Contact Size



#16



#12



#8



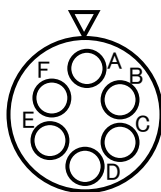
#4



#0

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

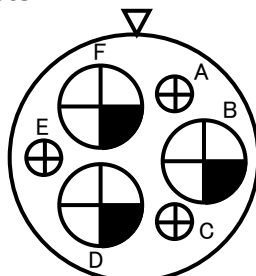
6 Contacts



14S - 6

6 - #16

Serv. **INST.**

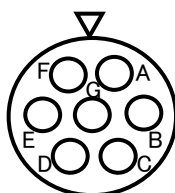


36 - 3

3 - #0 / 3 - #12

Serv. **D**

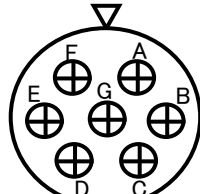
7 Contacts



16S - 1

7 - #16

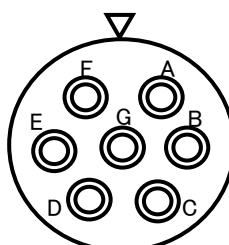
Serv. **A**



20 - 15

7 - #12

Serv. **A**

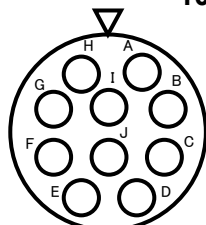


24 - 10

7 - #8

Serv. **A**

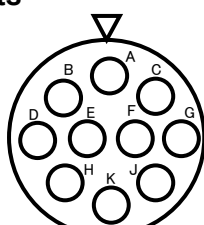
10 Contacts



18 - 1

10 - #16

Serv. **A (B,C,F,G)**
Serv. **INST. (Others)**

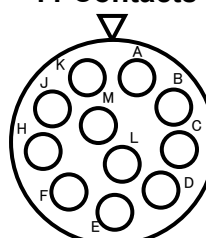


18 - 19

10 - #16

Serv. **A**

11 Contacts

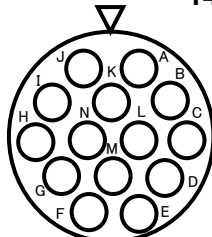


20 - 33

11 - #16

Serv. **A**

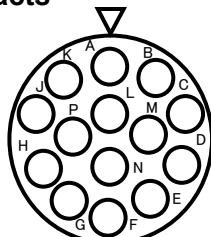
14 Contacts



20 - 27

14 - #16

Serv. **A**

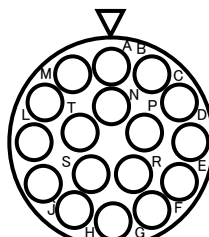


22 - 19

14 - #16

Serv. **A**

17 Contacts

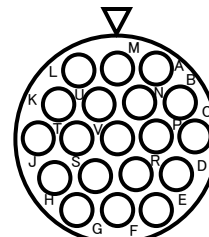


20 - 29

17 - #16

Serv. **A**

19 Contacts



22 - 14

19 - #16

Serv. **A**

Note: Serv = Service Rating

Insert Arrangement List

Contact Size



#16



#12



#8



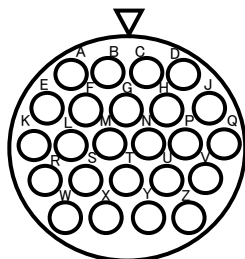
#4



#0

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

24 Contacts

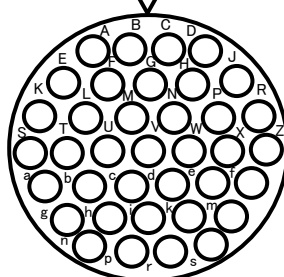


24 - 28

24 - #16

Serv. INST.

37 Contacts

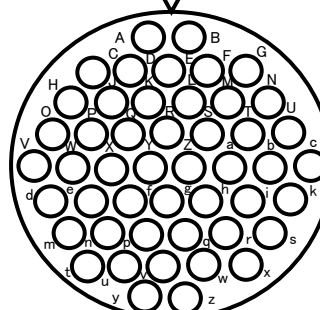


28 - 21

37 - #16

Serv. A

48 Contacts



36 - 10

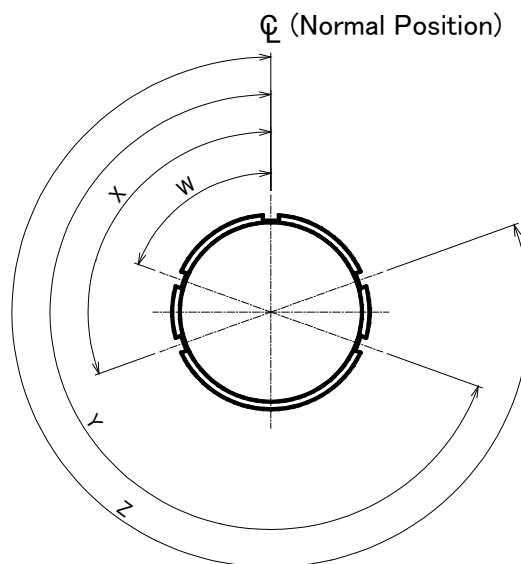
48 - #16

Serv. A

Note: Serv = Service Rating

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°	-
20-2	-	-	-	-
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

Insert Specifications

Insert No.	No. of Pins	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				2	5	A
16	16-9				3	2	A
	16-10						A
18	18-1					10	A (B, C, F, G) / INST(Other)
	18-3				2		A
	18-10				4		A
	18-11				5		A
	18-19					10	A
20	20-2	1					D
	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, DMS3102R10SL-4P, DMS3106E10SL-3S, DMS3106E10SL-4S)

DMS E/F/R Part Numbering System

(Example part Number shown.)

DMS 3106 F 20 - 29 S W - C - BSS - 1

Applicable Cable Diameter

- 0 : With non - waterproof cable clamp
- 1~8 : With waterproof cable clamp

Backshell Style

- BSN : With non - waterproof straight backshell.
- BSS : With waterproof straight backshell.
- BSL : With waterproof Long straight backshell.
- Omit : Applicable Cable Diameter

Refer to the following name of articles.

3100E / 3101E : With waterproof straight backshell,
grommet and ferrule.

3106E / F : With waterproof straight backshell,
grommet and ferrule.

3108E / F : With waterproof angle backshell,
grommet and ferrule.

Deviations

- Omit : Black chromate finish.
- A : Olive drab chromate finish.

Alternate Insert Position

- Omit : Normal position
- "W", "X", "Y", "Z" : Refer to page 7

Contact Configuration (style)

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

Insert Arrangement : Refer to page 4 - 6

Shell Size

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

Service Class

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

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

Connector Series

- DMS : Chromate Finish

Wall Receptacle Connector

DMS3100E□□□□ - □□P / S□ - □□□ - □

DMS3100E□□□□ - □□P / S□ - □

Wall Receptacle Shell
DMSE - □□□□WRS

Backshell
DMSE - □□□□BS

Ferrule
DMSE - □□□□FL

Grommet
DMSE - □□□□ - □□GM

DMS3100E□□□□ - □□P / S□ - BS□ - □

Cable Clamp
CE3057 - □□A - □

Waterproof Straight Backshell
DMSE - □□□□BSS

Waterproof Straight Backshell
DMSE - □□□□BSLS

DMS3100E□□□□ - □□P / S□ - □ - BSN - □

Cable Clamp
DMS3057 - □□AK

Straight Backshell
DMSE - □□□□BSN

DMS3100E□□□□ - □□P / S□ - □ - BA - □

Angle Backshell
DMSE - □□□□BA

Cable Receptacle Connector

DMS3101E□□□□ - □□P / S□ - □□□ - □

DMS3101E□□□□ - □□P / S□ - □

Cable Receptacle Shell
DMSE - □□□□CRS

Backshell
DMSE - □□□□BS

Ferrule
DMSE - □□□□FL

Grommet
DMSE - □□□□ - □□GM

Cable Clamp
CE3057 - □□A - □

Waterproof Straight Backshell
DMSE - □□□□BSS

DMS3101E□□□□ - □□P / S□ - BS□ - □

Waterproof Straight Backshell
DMSE - □□□□BSLS

DMS3101E□□□□ - □□P / S□ - □ - BSN - □

Cable Clamp
DMS3057 - □□AK

Straight Backshell
DMSE - □□□□BSN

DMS3101E□□□□ - □□P / S□ - □ - BA - □

Angle Backshell
DMSE - □□□□BA

Box Mounting Receptacle Connector

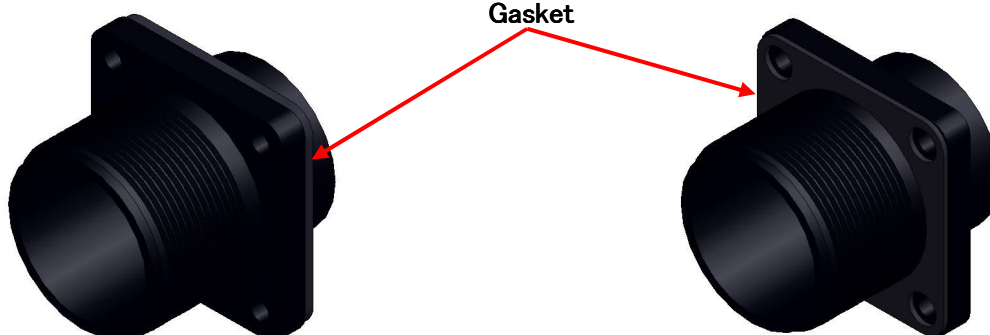
DMS3102E□□□□ - □□□□ - □

DMS3102R□□□□ - □□□□ - □ (With Gasket)

DMS3102E□□□□ - □□ P / S □ - □



DMS3102R□□□□ - □□ P / S □ - □



Straight Plug Connector

DMS3106E□□□□ - □□□□ - □
DMS3106F□□□□ - □□□□ - □ (With Gasket)

DMS3106F□□□□ - □□ P / S □ - □

Plug Shell Assembly
DMSE - □□□□PSA

Backshell
DMSE - □□□□
--

Ferrule
DMSE - □□□□FL

Grommet
DMSE - □□□□ - □□GM

Waterproof Straight Backshell
DMSE - □□□□BSS

DMS3106F□□□□ - □□ P / S □ - □ - BS□ - □

Waterproof Long Straight Backshell
DMSE - □□□□BSLS

Cable Clamp
DMS3057 - □□AK

DMS3106E□□□□ - □□ P / S □ - □ - BSN - 0

Straight Backshell
DMSE - □□□□BSN

Backshell (Type - R)
DMSE - □□□□BSR-□

DMS3106R□□□□ - □□ P / S □ - □

Angle Plug Connector

DMS3108E□□□□ - □□□□ - □

DMS3108F□□□□ - □□□□ - □ (With Gasket)

DMS3108F□□□□ - □□ P / S □ - □

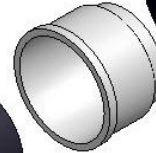
Angle Backshell

DMSE - □□□□BA



Ferrule

DMS - □□□□FL



Grommet

DMSE - □□□□ - □□GM



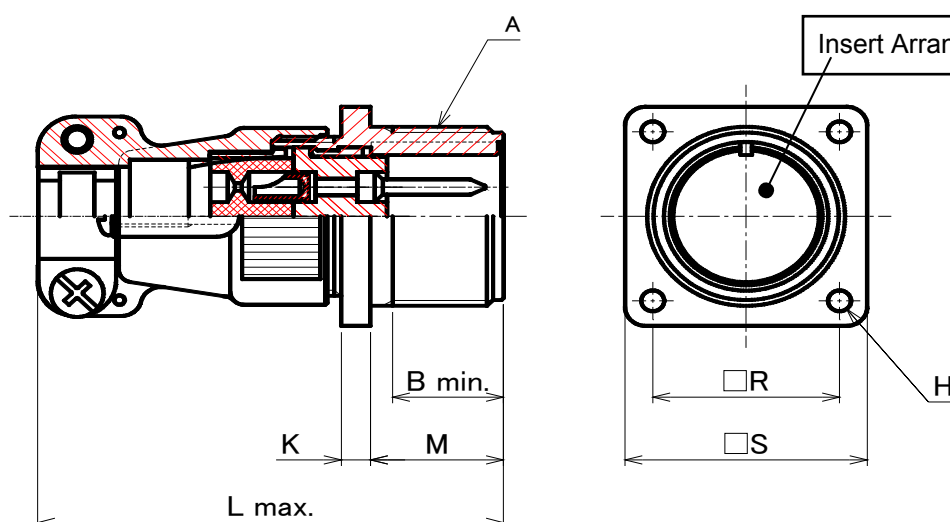
Plug Shell Assembly

DMSE - □□□□PSA



Wall Receptacle Connector

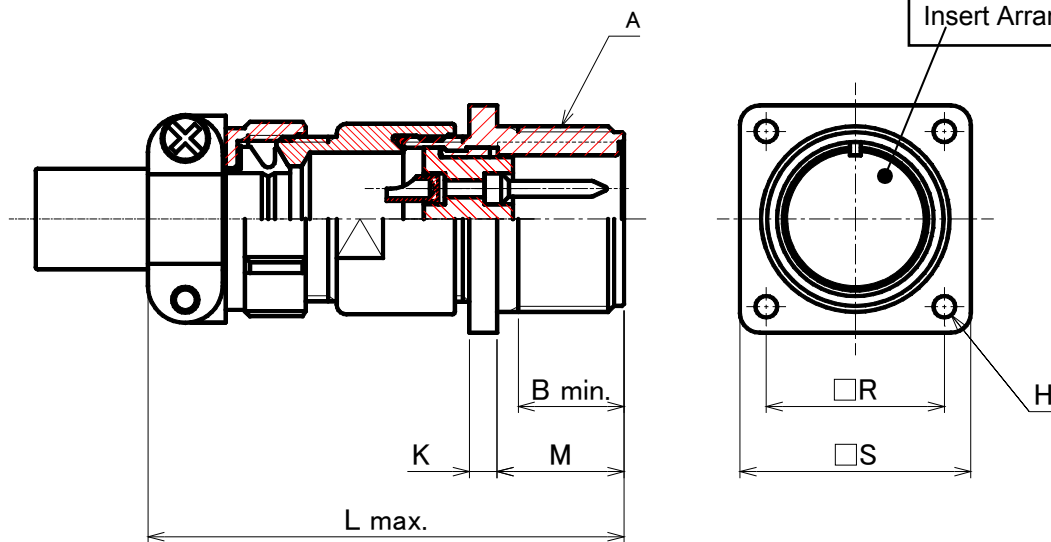
DMS3100E□□□□ - □□□□ - □



Shell Size	A	B	K±0.05	L	M ^{+0.78} ₀	R±0.12	S±0.5	ΦH ^{+0.25} _{-0.12}
10SL	5/8-24UNEF	12.0	2.2	52.5	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12.0	3.0	53.1	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11.0	2.9	59.3	14.6	23.01	30.18	3.3
16S	1-20UNEF	12.0	3.2	63.0	14.5	24.61	32.54	3.3
16	1-20UNEF	16.0	2.9	67.7	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16.0	4.2	69.2	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16.0	3.7	68.2	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16.0	4.0	70.9	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17.0	3.4	78.0	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18.0	3.4	78.0	21.3	39.67	50.80	3.8
32	2-18UNS	18.0	4.0	-	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18.0	4.1	75.0	22.4	49.20	63.50	4.5

Wall Receptacle Connector

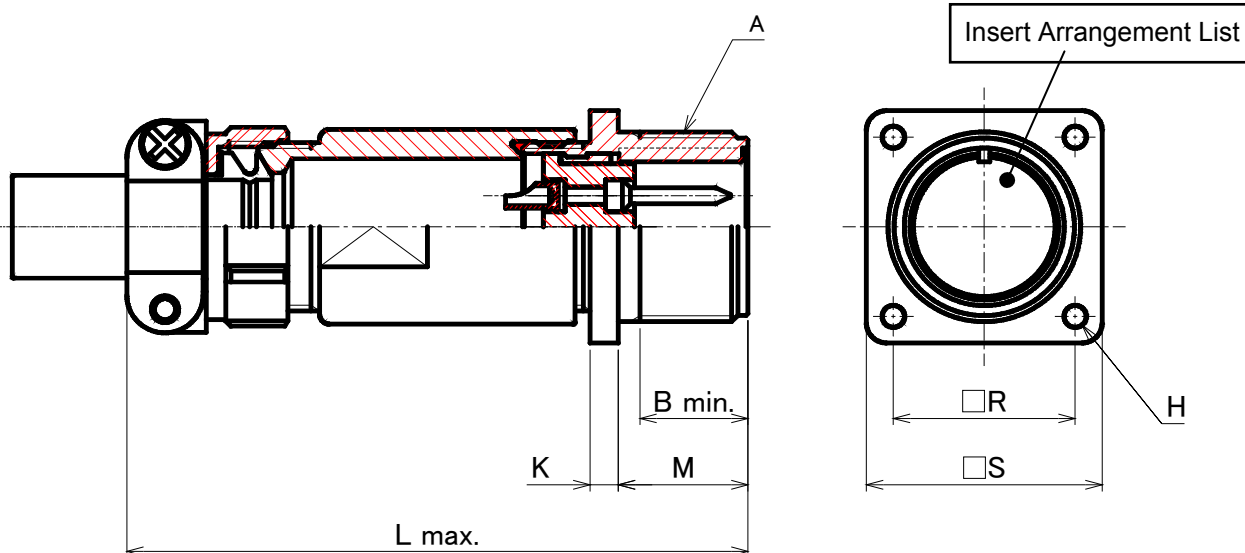
DMS3100E□□□□ - □□□□ - BSS - □



Shell Size	A	B	K±0.05	L	M ^{+0.78} ₀	R±0.12	S±0.5	ΦH ^{+0.25} _{-0.12}
10SL	5/8-24UNEF	12.0	2.2	54.7	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12.0	3.0	57.1	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11.0	2.9	62.5	14.6	23.01	30.18	3.3
16S	1-20UNEF	12.0	3.2	65.2	14.5	24.61	32.54	3.3
16	1-20UNEF	16.0	2.9	69.9	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16.0	4.2	72.1	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16.0	3.7	73.1	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16.0	4.0	78.0	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17.0	3.4	87.7	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18.0	3.4	93.6	21.3	39.67	50.80	3.8
32	2-18UNS	18.0	4.0	102.9	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18.0	4.1	108.8	22.4	49.20	63.50	4.5

Wall Receptacle Connector

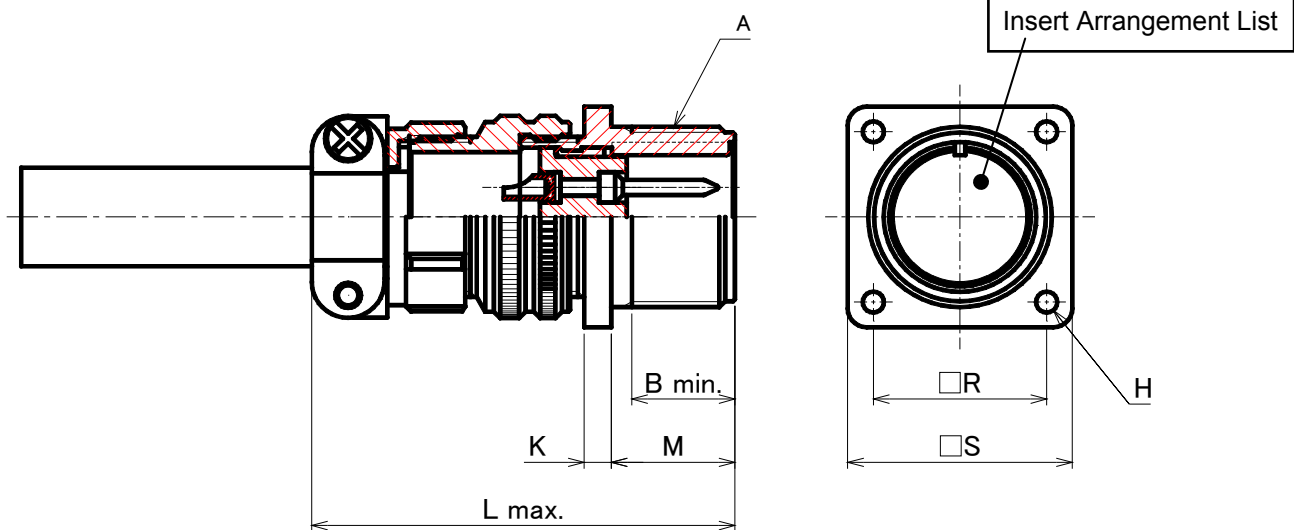
DMS3100E□□□□ - □□□□ - BSL - □



Shell Size	A	B	K±0.05	L	M ^{+0.78} ₀	R±0.12	S±0.5	ΦH ^{+0.25} _{-0.12}
10SL	5/8-24UNEF	12.0	2.2	74.7	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12.0	3.0	77.1	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11.0	2.9	82.5	14.6	23.01	30.18	3.3
16S	1-20UNEF	12.0	3.2	85.2	14.5	24.61	32.54	3.3
16	1-20UNEF	16.0	2.9	89.9	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16.0	4.2	112.1	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16.0	3.7	93.1	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16.0	4.0	98.0	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17.0	3.4	107.7	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18.0	3.4	113.6	21.3	39.67	50.80	3.8
32	2-18UNS	18.0	4.0	122.9	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18.0	4.1	128.8	22.4	49.20	63.50	4.5

Wall Receptacle Connector

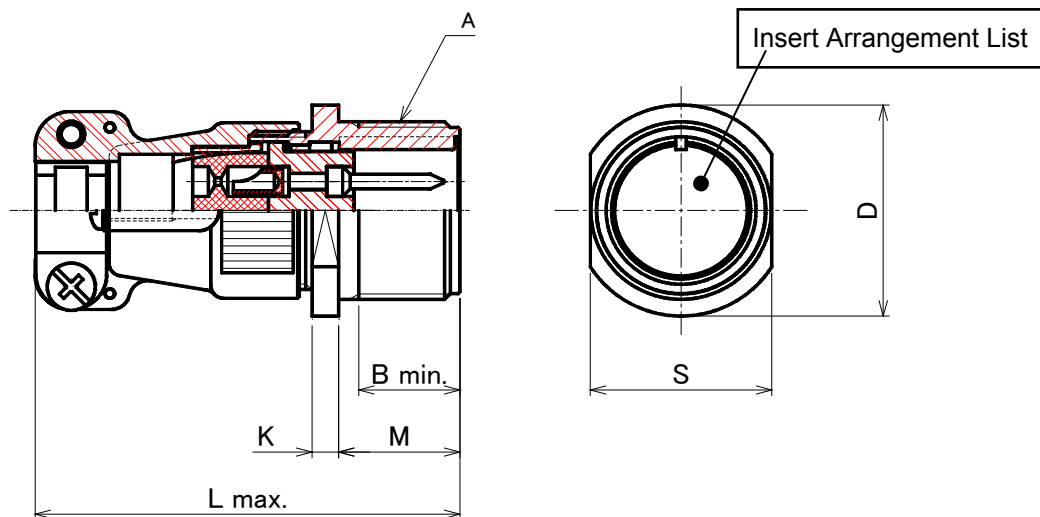
DMS3100E□□□□ - □□□□ - BSN - □



Shell Size	A	B	K±0.05	L	M ^{+0.78} ₀	R±0.12	S±0.5	ΦH ^{+0.25} _{-0.12}
10SL	5/8-24UNEF	12.0	2.2	50.1	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12.0	3.0	54.5	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11.0	2.9	53.7	14.6	23.01	30.18	3.3
16S	1-20UNEF	12.0	3.2	58.4	14.5	24.61	32.54	3.3
16	1-20UNEF	16.0	2.9	63.1	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16.0	4.2	65.8	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16.0	3.7	68.6	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16.0	4.0	67.5	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17.0	3.4	73.4	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18.0	3.4	75.0	21.3	39.67	50.80	3.8
32	2-18UNS	18.0	4.0	74.7	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18.0	4.1	78.7	22.4	49.20	63.50	4.5

Cable Receptacle Connector

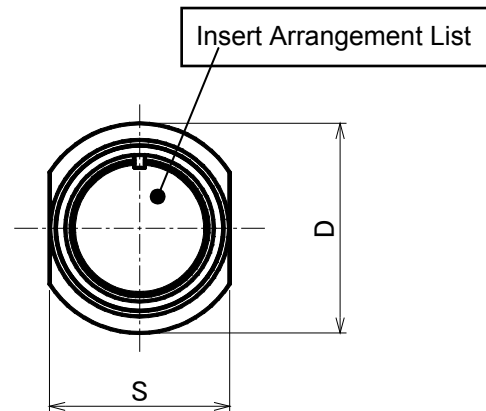
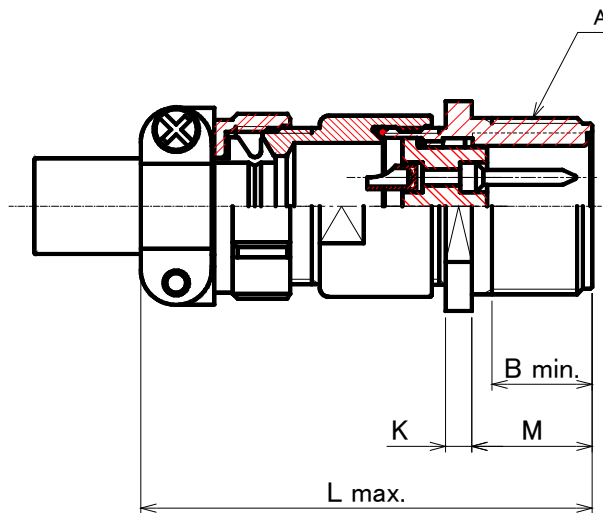
DMS3101E□□□□ - □□□□ - □



Shell Size	A	B	L	$\Phi D_{\pm 0.5}$	$S_{\pm 0.5}$
10SL	5/8-24UNEF	12.0	52.0	22.0	16.5
12S	3/4-20UNEF	12.0	53.1	25.0	19.3
14S	7/8-20UNEF	11.0	59.3	28.0	22.6
16S	1-20UNEF	12.0	63.0	31.0	25.5
16	1-20UNEF	16.0	67.7	31.0	25.5
18	1 1/8-18UNEF	16.0	69.2	33.9	28.7
20	1 1/4-18UNEF	16.0	70.9	37.0	32.0
22	1 3/8-18UNEF	16.0	70.9	40.0	35.0
24	1 1/2-18UNEF	17.0	78.0	43.3	38.2
28	1 3/4-18UNS	18.0	78.0	49.5	44.7
32	2-18UNS	18.0	-	55.5	50.8
36	2 1/4-16UN	18.0	75.0	62.3	57.3

Cable Receptacle Connector

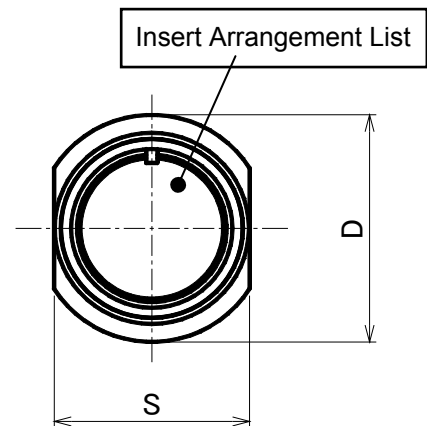
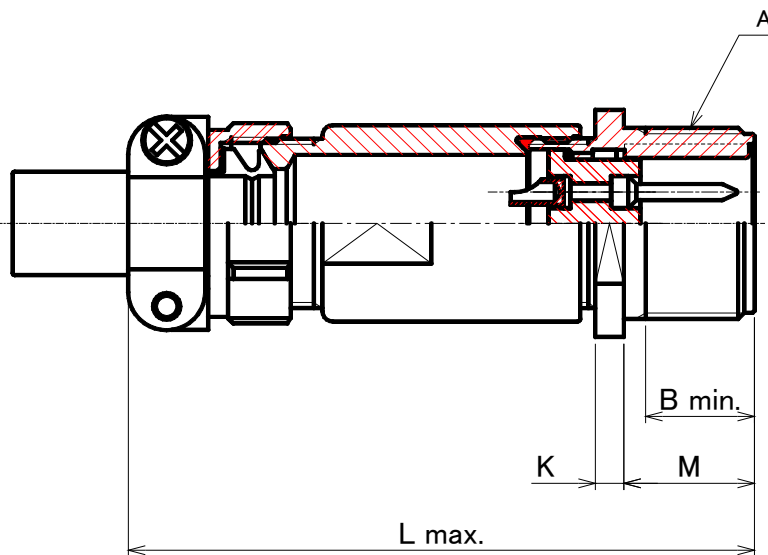
DMS3101E□□□□ - □□□□ - BSS - □



Shell Size	A	B	L	$\Phi D_{\pm 0.5}$	$S_{\pm 0.5}$
10SL	5/8-24UNEF	12.0	54.7	22.0	16.5
12S	3/4-20UNEF	12.0	57.1	25.0	19.3
14S	7/8-20UNEF	11.0	62.5	28.0	22.6
16S	1-20UNEF	12.0	65.2	31.0	25.5
16	1-20UNEF	16.0	69.9	31.0	25.5
18	1 1/8-18UNEF	16.0	72.1	33.9	28.7
20	1 1/4-18UNEF	16.0	73.1	37.0	32.0
22	1 3/8-18UNEF	16.0	78.0	40.0	35.0
24	1 1/2-18UNEF	17.0	87.7	43.3	38.2
28	1 3/4-18UNS	18.0	93.6	49.5	44.7
32	2-18UNS	18.0	102.9	55.5	50.8
36	2 1/4-16UN	18.0	108.8	62.3	57.3

Cable Receptacle Connector

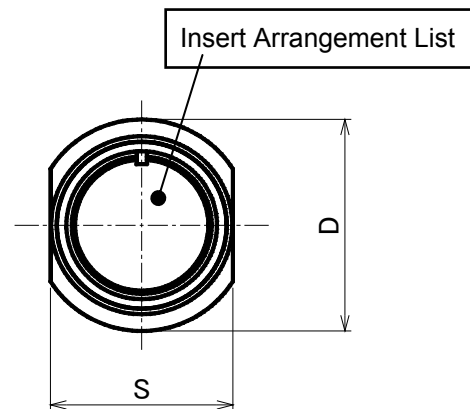
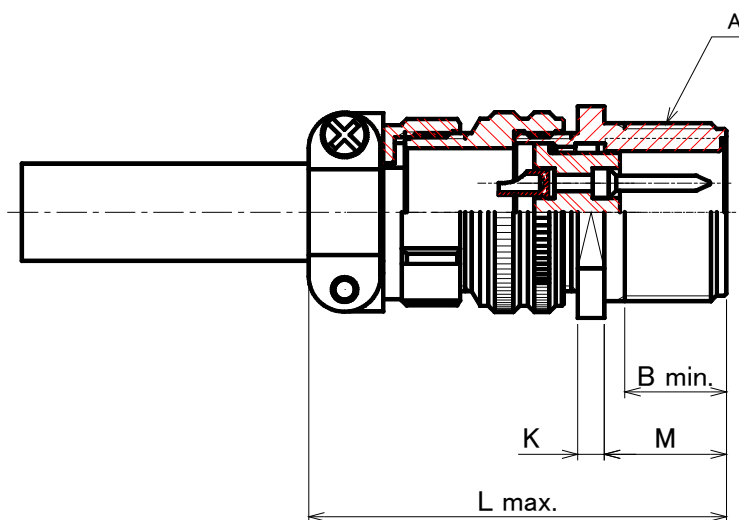
DMS3101E□□□□ - □□□□ - BSL - □



Shell Size	A	B	L	$\Phi D_{\pm 0.5}$	$S_{\pm 0.5}$
10SL	5/8-24UNEF	12.0	74.7	22.0	16.5
12S	3/4-20UNEF	12.0	77.1	25.0	19.3
14S	7/8-20UNEF	11.0	82.5	28.0	22.6
16S	1-20UNEF	12.0	85.2	31.0	25.5
16	1-20UNEF	16.0	89.9	31.0	25.5
18	1 1/8-18UNEF	16.0	92.1	33.9	28.7
20	1 1/4-18UNEF	16.0	93.1	37.0	32.0
22	1 3/8-18UNEF	16.0	98.0	40.0	35.0
24	1 1/2-18UNEF	17.0	107.7	43.3	38.2
28	1 3/4-18UNS	18.0	113.6	49.5	44.7
32	2-18UNS	18.0	122.9	55.5	50.8
36	2 1/4-16UN	18.0	128.8	62.3	57.3

Cable Receptacle Connector

DMS3101E□□□□ - □□□□ - BSN - □

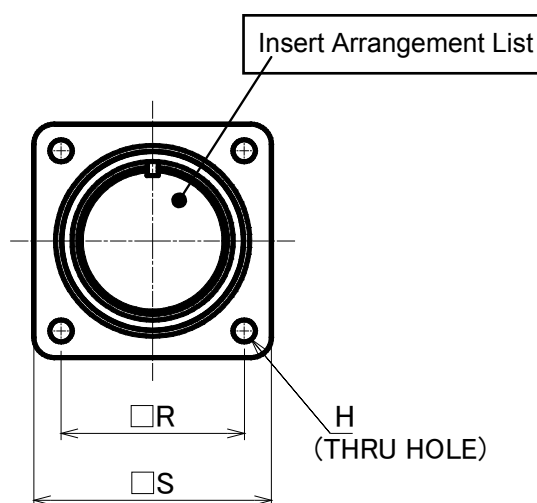
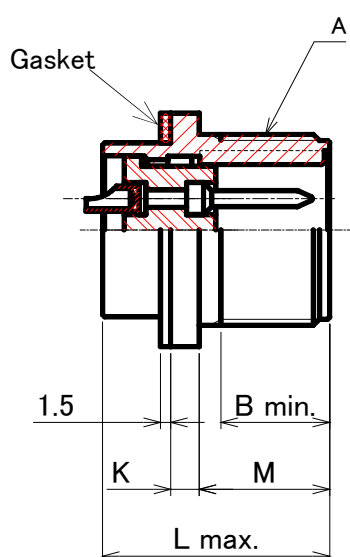


Shell Size	A	B	L	$\Phi D_{\pm 0.5}$	$S_{\pm 0.5}$
10SL	5/8-24UNEF	12.0	50.1	22.0	16.5
12S	3/4-20UNEF	12.0	54.5	25.0	19.3
14S	7/8-20UNEF	11.0	53.7	28.0	22.6
16S	1-20UNEF	12.0	58.4	31.0	25.5
16	1-20UNEF	16.0	63.1	31.0	25.5
18	1 1/8-18UNEF	16.0	65.8	33.9	28.7
20	1 1/4-18UNEF	16.0	68.6	37.0	32.0
22	1 3/8-18UNEF	16.0	67.5	40.0	35.0
24	1 1/2-18UNEF	17.0	73.4	43.3	38.2
28	1 3/4-18UNS	18.0	75.0	49.5	44.7
32	2-18UNS	18.0	74.7	55.5	50.8
36	2 1/4-16UN	18.0	78.7	62.3	57.3

Box Receptacle Connector

DMS3102E□□□□ - □□□□ - □

DMS3102R□□□□ - □□□□ - □ (With Gasket)

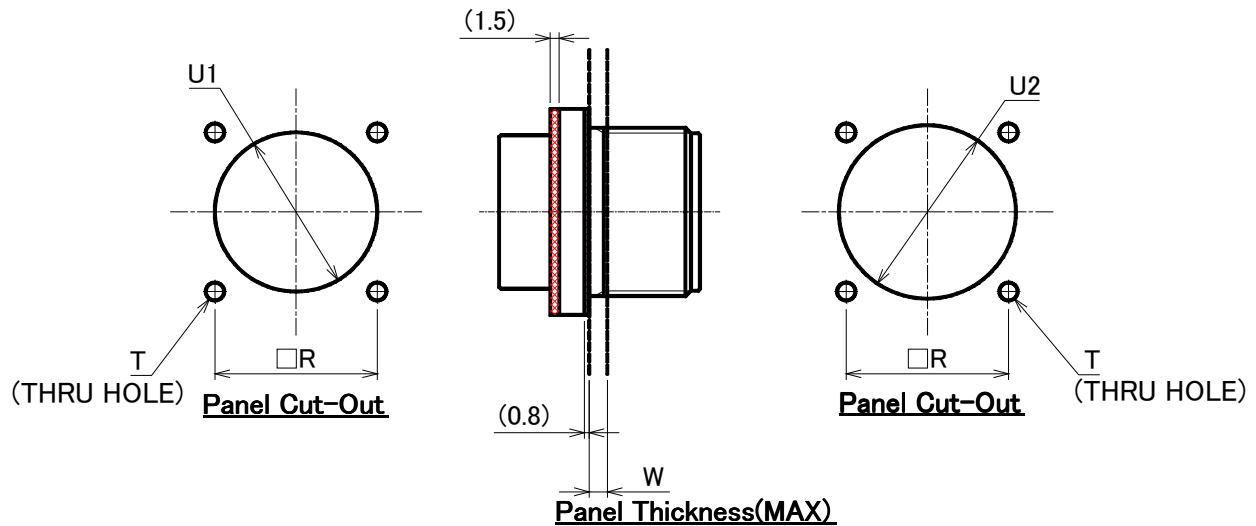


Shell Size	A	B	K±0.05	L	M ^{+0.78} ₀	R±0.12	S±0.5	ΦH ^{+0.25} _{-0.12}
10SL	5/8-24UNEF	12.0	2.2	25.0	14.5	18.26	25.40	3.0
12S	3/4-20UNEF	12.0	3.0	27.0	14.6	20.62	27.80	3.3
14S	7/8-20UNEF	11.0	2.9	26.5	14.6	23.01	30.18	3.3
16S	1-20UNEF	12.0	3.2	25.6	14.5	24.61	32.54	3.3
16	1-20UNEF	16.0	2.9	33.3	19.5	24.61	32.54	3.3
18	1 1/8-18UNEF	16.0	4.2	33.4	19.2	26.94	34.93	3.3
20	1 1/4-18UNEF	16.0	3.7	32.1	19.2	29.36	38.10	3.3
22	1 3/8-18UNEF	16.0	4.0	35.0	19.2	31.75	41.28	3.3
24	1 1/2-18UNEF	17.0	3.4	36.0	21.0	34.93	45.00	3.8
28	1 3/4-18UNS	18.0	3.4	36.7	21.3	39.67	50.80	3.8
32	2-18UNS	18.0	4.0	39.0	22.5	44.45	57.15	4.5
36	2 1/4-16UN	18.0	4.1	39.5	22.4	49.20	63.50	4.5

Box Receptacle Connector

DMS3102E□□□□ - □□□□ - □

DMS3102R□□□□ - □□□□ - □ (With Gasket)



Shell Size	$R \pm 0.12$	$\Phi U1 \begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$	$\Phi U2 \begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$	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

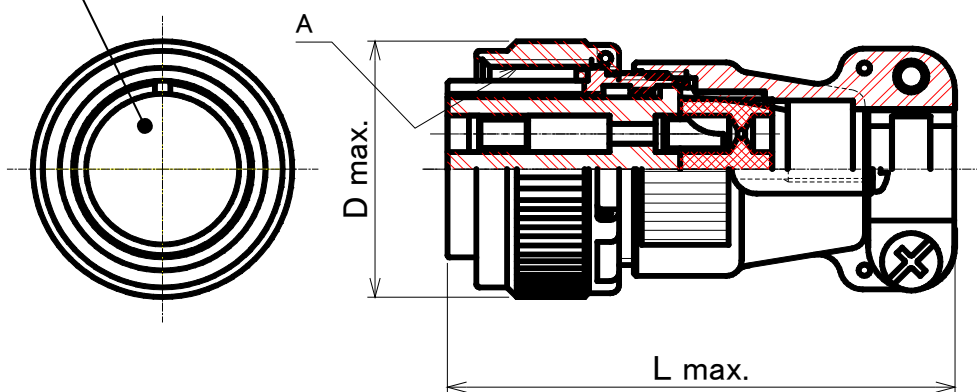
Straight Plug Connector

DMS3106E□□□□ - □□□□ - □

DMS3106F□□□□ - □□□□ - □ (With Gasket)



Insert Arrangement List



Shell Size	A	L	ΦD
10SL	5/8-24UNEF	43.6	22.30
12S	3/4-20UNEF	43.4	26.25
14S	7/8-20UNEF	43.8	28.90
16S	1-20UNEF	47.4	31.90
16	1-20UNEF	54.4	31.90
18	1 1/8-18UNEF	55.9	33.80
20	1 1/4-18UNEF	55.2	37.55
22	1 3/8-18UNEF	59.2	40.85
24	1 1/2-18UNEF	63.0	43.70
28	1 3/4-18UNS	63.6	50.70
32	2-18UNS	-	57.20
36	2 1/4-16UN	61.0	63.20

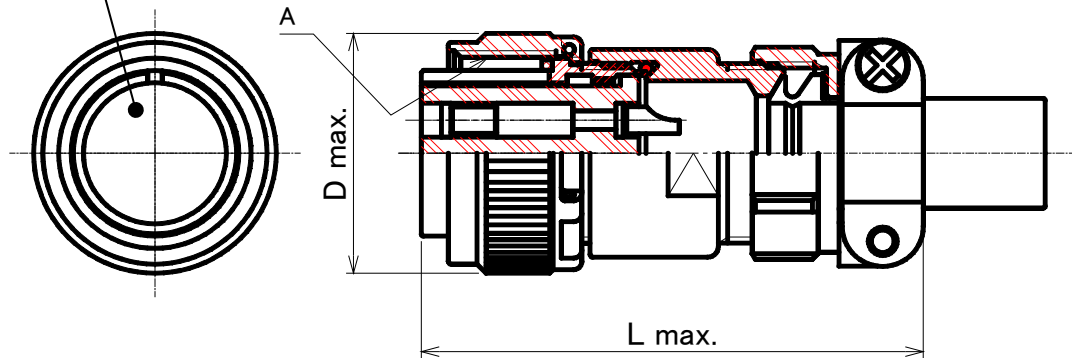
Straight Plug Connector

DMS3106E□□□□ - □□□□ - □

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



Insert Arrangement List



Shell Size	A	L	ΦD
10SL	5/8-24UNEF	54.8	22.30
12S	3/4-20UNEF	56.1	26.25
14S	7/8-20UNEF	62.0	28.90
16S	1-20UNEF	63.8	31.90
16	1-20UNEF	68.6	31.90
18	1 1/8-18UNEF	70.0	33.80
20	1 1/4-18UNEF	72.3	37.55
22	1 3/8-18UNEF	78.0	40.85
24	1 1/2-18UNEF	86.7	43.70
28	1 3/4-18UNS	91.9	50.70
32	2-18UNS	100.9	57.20
36	2 1/4-16UN	105.3	63.20

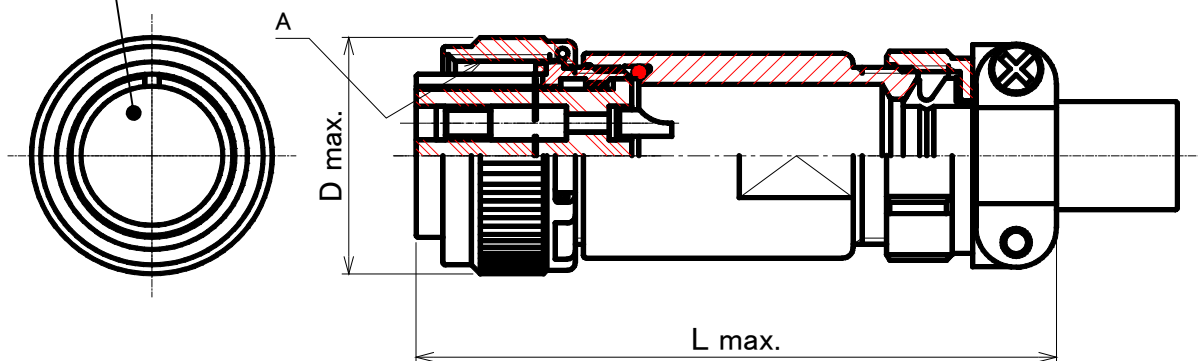
Straight Plug Connector

DMS3106E□□□□ - □□□□ - □

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



Insert Arrangement List



Shell Size	A	L	ΦD
10SL	5/8-24UNEF	74.8	22.30
12S	3/4-20UNEF	76.1	26.25
14S	7/8-20UNEF	82.0	28.90
16S	1-20UNEF	83.8	31.90
16	1-20UNEF	88.6	31.90
18	1 1/8-18UNEF	90.0	33.80
20	1 1/4-18UNEF	92.3	37.55
22	1 3/8-18UNEF	98.0	40.85
24	1 1/2-18UNEF	106.7	43.70
28	1 3/4-18UNS	111.9	50.70
32	2-18UNS	120.9	57.20
36	2 1/4-16UN	125.3	63.20

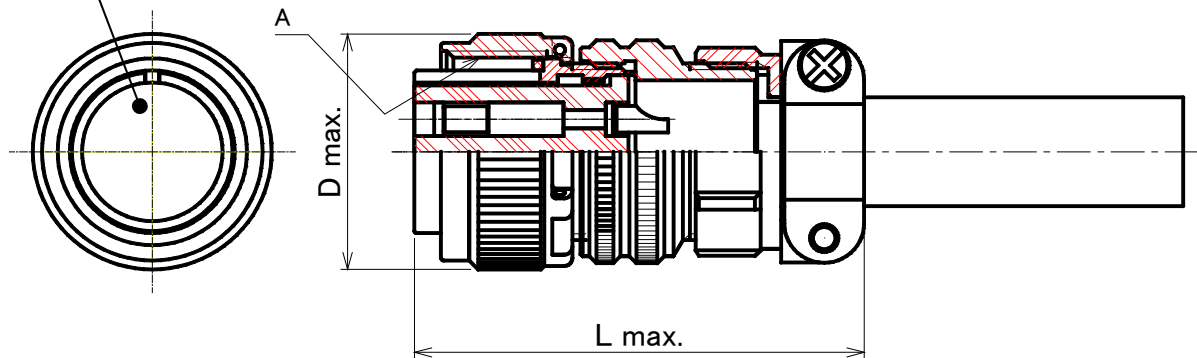
Straight Plug Connector

DMS3106E□□□□ - □□□□ - □

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



Insert Arrangement List



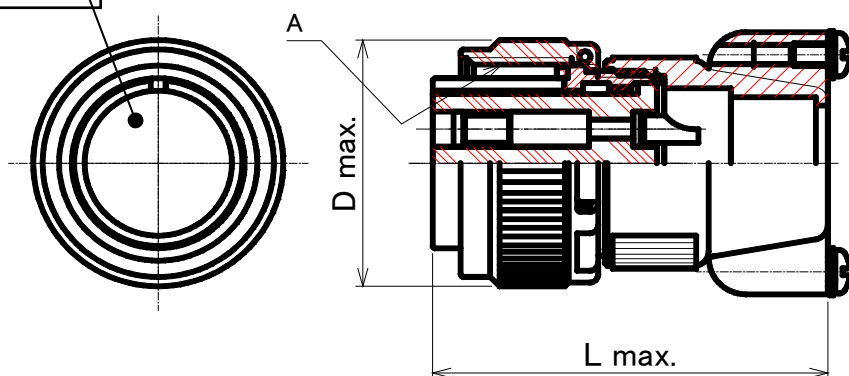
Shell Size	A	L	ΦD
10SL	5/8-24UNEF	50.1	22.30
12S	3/4-20UNEF	53.5	26.25
14S	7/8-20UNEF	63.0	28.90
16S	1-20UNEF	57.0	31.90
16	1-20UNEF	61.8	31.90
18	1 1/8-18UNEF	63.7	33.80
20	1 1/4-18UNEF	67.8	37.55
22	1 3/8-18UNEF	66.0	40.85
24	1 1/2-18UNEF	72.4	43.70
28	1 3/4-18UNS	73.3	50.70
32	2-18UNS	72.7	57.20
36	2 1/4-16UN	75.2	63.20

Straight Plug Connector

DMS3106R□□□□ - □□□□ - □ (With Gasket)



Insert Arrangement List



Shell Size	A	L	ΦD
10SL	5/8-24UNEF	43.6	22.30
12S	3/4-20UNEF	43.4	26.25
14S	7/8-20UNEF	43.8	28.90
16S	1-20UNEF	47.4	31.90
16	1-20UNEF	54.4	31.90
18	1 1/8-18UNEF	55.9	33.80
20	1 1/4-18UNEF	55.2	37.55
22	1 3/8-18UNEF	59.2	40.85
24	1 1/2-18UNEF	63.0	43.70
28	1 3/4-18UNS	63.6	50.70
32	2-18UNS	-	57.20
36	2 1/4-16UN	61.0	63.20

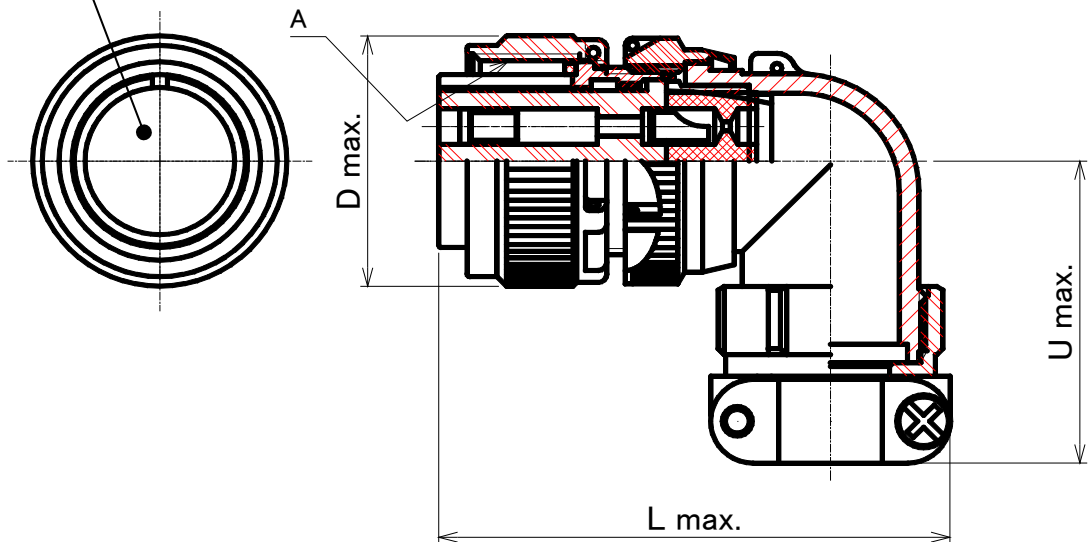
Angle Plug Connector

DMS3108E□□□□ - □□□□ - □

DMS3108F□□□□ - □□□□ - □ (With Gasket)



Insert Arrangement List



Shell Size	A	L	ΦD	U
10SL	5/8-24UNEF	55.6	22.30	38.1
12S	3/4-20UNEF	55.6	26.25	38.1
14S	7/8-20UNEF	58.7	28.90	40.5
16S	1-20UNEF	61.1	31.90	42.9
16	1-20UNEF	70.6	31.90	42.9
18	1 1/8-18UNEF	52.2	33.80	45.2
20	1 1/4-18UNEF	82.6	37.55	50.0
22	1 3/8-18UNEF	82.6	40.85	50.8
24	1 1/2-18UNEF	94.5	43.70	54.0
28	1 3/4-18UNS	94.5	50.70	55.6
32	2-18UNS	106.4	57.20	68.9
36	2 1/4-16UN	109.1	63.20	69.1

Accessories

Backshell

Backshell

DMSE - □□□□BS



Angle Backshell

DMSE - □□□□BA



Front Gasket of Receptacle

DMSE - □□□□ FG



Waterproof Straight Backshell

DMSE - □□□□BSS



Waterproof Long Straight Backshell

DMSE - □□□□BSLS



Straight Backshell

DMSE - □□□□BSN



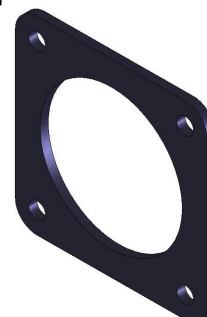
Backshell (Type-R)

DMSE - □□□□BSR



Rear Gasket of Receptacle

DMSE - □□□□RG



Accessories

Cable Clamp

Cable Clamp
DMS3057 - □□AK

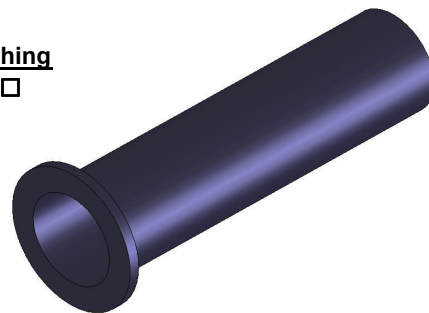


Waterproof Cable Clamp
CE3057 - □□A - □

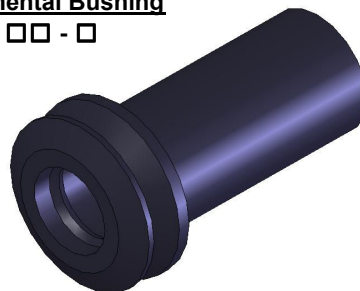


Bushing

Rubber Bushing
AN3420 - □□



Environmental Bushing
CE3420 - □□ - □



DMS E/F/R Part Numbering System

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

Date: July 18, 2008
Revision: A
Issued by: DDK Industrial Duty Connectors Division

DMS 3106 F 20 - 29 S W - C - BSS - 1
1 2 3 4 5 6 7 8 9 10

See code below:

1. Series

DMS : Chromate Finish

2.Shell Style

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

3.Service Class(Connector Class)

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

4.Shell Size

20 : 20 size

Shell size 10SL,14S,16S through 36 available

5.Insert Arrangement

20-29 : 20-29 Insert
Refer to pages xx-xx for insert availability

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. Deviations

Omit : Black chromate finish
A : Olive drab chromate finish

9.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

10.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	DMS3057-4AK	10SL,12S	AN3420-4	Φ5.6max
0	DMS3057-6AK	14S	AN3420-6	Φ7.9max
0	DMS3057-8AK	16S,16	AN3420-8	Φ8-Φ10.5
0	DMS3057-10AK	18	AN3420-10	Φ10.5-Φ14.1
0	DMS3057-12AK	20,22	AN3420-12	Φ8.5-Φ11
0	DMS3057-16AK	24,28	AN3420-16	Φ6.5-Φ8.7
0	DMS3057-20AK	32	AN3420-20	Φ12.5-Φ16
0	DMS3057-24AK	36	AN3420-24	Φ9.5-Φ13

Table 2

Number	Cable Clamp P/N	Shell Size	Bushing Used	Applicable Cable Diameter
1	CE3057-4A-1(Dxxx)	10SL,12S	CE3420-4-1	Φ3.6-Φ5.6
1	CE3057-6A-1(Dxxx)	14S	CE3420-6-1	Φ7-Φ9
1	CE3057-8A-1(Dxxx)	16S,16	CE3420-8-1	Φ8-Φ10.5
1	CE3057-10A-1(Dxxx)	18	CE3420-10-1	Φ10.5-Φ14.1
2	CE3057-10A-2 (Dxxx)		CE3420-10-2	Φ8.5-Φ11
3	CE3057-10A-3 (Dxxx)		CE3420-10-3	Φ6.5-Φ8.7
1	CE3057-12A-1(Dxxx)	20,22	CE3420-12-1	Φ12.5-Φ16
2	CE3057-12A-2 (Dxxx)		CE3420-12-2	Φ9.5-Φ13
3	CE3057-12A-3 (Dxxx)		CE3420-12-3	Φ6.8-Φ10
7	CE3057-12A-7 (Dxxx)		CE3420-12-7	Φ15-Φ17
1	CE3057-16A-1(Dxxx)	24,28	CE3420-16-1	Φ15-Φ19.1
2	CE3057-16A-2 (Dxxx)		CE3420-16-2	Φ13-Φ15.5
4	CE3057-16A-4 (Dxxx)		CZY005-GB-3	Φ19.1-Φ21.5
6	CE3057-16A-6 (Dxxx)		CE3420-16-6	Φ18-Φ20
7	CE3057-16A-7 (Dxxx)		CE3420-16-7	Φ12.5-Φ14
8	CE3057-16A-8 (Dxxx)		CE3420-16-8	Φ11-Φ12.5
1	CE3057-20A-1 (Dxxx)	32	CE3420-20-1	Φ22-Φ23.8
2	CE3057-20A-2 (Dxxx)		CE3420-20-2	Φ24-Φ26.6
3	CE3057-20A-3 (Dxxx)		CE3420-20-3	Φ20-Φ22.5
1	CE3057-24A-1 (Dxxx)	36	CE3420-24-1	Φ30-Φ32.5
2	CE3057-24A-2 (Dxxx)		CE3420-24-2	Φ27.5-Φ29.5



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331