



**MS/Standard
A,E(F),R Class**

Amphenol MIL-C-5015 Connectors MS-A Class



Wall Mounting Receptacle



Cable connecting Receptacle



Box Mounting Receptacle



Straight Plug



Right Angle Plug

MS-A

MS-A class connectors perform many of the virtual functions in powering, testing and ground support system. Class A applications include communication equipment, computers and shipboard installation where mechanical forces and physical parameters are not subject to extreme or rapid environmental changes.

Shells:

Shell components are fabricated from high grade aluminum alloy.

Electrically Zinc plate finish with an olive drab chromate after treatment offers corrosion resistance.

Contacts:

Pins and sockets are machined from copper alloy with silver plated finish.

Size 16 and 12 socket contacts incorporate a closed entry design.

Inserts:

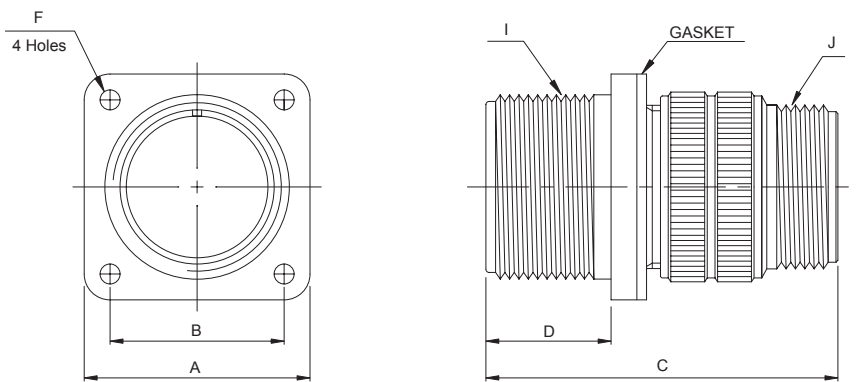
Inserts are resilient synthetic rubber, offering high dielectric strength, high arc resistance to vibration.

Proprietary design permits pressurization of either pin or socket insert.

Amphenol MIL-C-5015 Connectors

MS3100A

Wall mounting receptacle



MS3100A wall mounting receptacles are used with the MS3057 cable clamp or with conduit to eliminate need for the conduit box in applications where wires are carried thru walls or bulkheads.

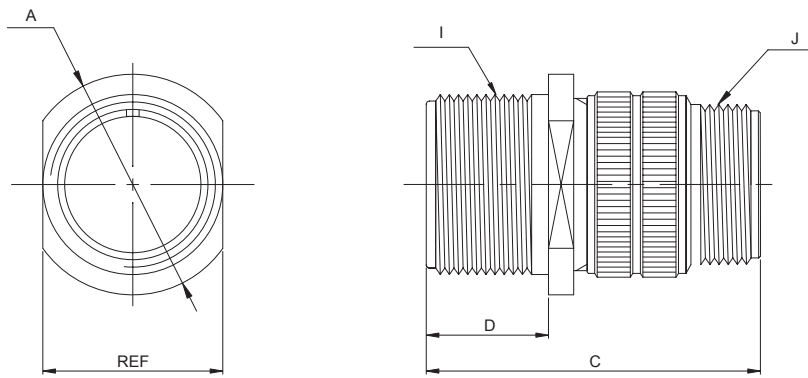
(mm)

Shell Size	□A ±0.79	□B ±0.12	C Max	D +0.79 -0.00	∅F +0.25 -0.12	I Thread-2A (UNEF)	J Thread-2A (UNEF)
10SL	25.40	18.26	38.88	14.28	3.20	5/8-24 NEF	5/8-24 NEF
12S	27.79	20.62	42.87	14.28	3.20	3/4-20 NEF	5/8-24 NEF
12	27.79	20.62	52.37	19.05	3.20	3/4-20 NEF	5/8-24 NEF
14S	30.18	23.01	42.87	14.28	3.20	7/8-20 NEF	3/4-20 NEF
14	30.18	23.01	52.37	19.05	3.20	7/8-20 NEF	3/4-20 NEF
16S	32.54	24.61	42.87	14.28	3.20	1-20 NEF	7/8-20 NEF
16	32.54	24.61	52.37	19.05	3.20	1-20 NEF	7/8-20 NEF
18	34.93	26.97	52.37	19.05	3.20	1 1/8-18 NEF	1-20 NEF
20	38.10	29.36	55.57	19.05	3.20	1 1/4-18 NEF	1 3/16-18 NEF
22	41.28	31.75	55.57	19.05	3.20	1 3/8-18 NEF	1 3/16-18 NEF
24	44.45	34.93	58.72	20.63	3.73	1 1/2-18 NEF	1 7/16-18 NEF
28	50.80	39.67	58.72	20.63	3.73	1 3/4-18 NS	1 7/16-18 NEF
32	57.15	44.45	67.92	22.23	4.39	2-18 NS	1 3/4-18 NS
36	63.50	49.23	67.92	22.23	4.39	2 1/4-16 UN	2-18 NS

Amphenol MIL-C-5015 Connectors

MS3101A

Cable Connecting Receptacle



MS3101A solid endbell cable connecting receptacles are used for cable extension requirements where mounting provisions are unnecessary.

(mm)

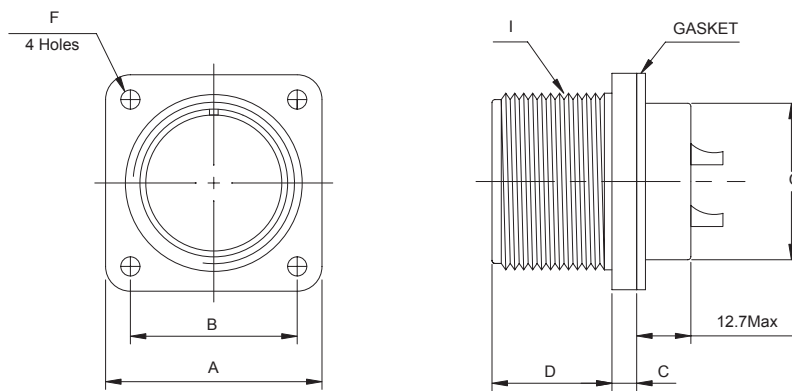
Shell Size	∅ A Max	C Max	D +0.79 -0.00	I Thread-2A (UNEF)	J Thread-2A (UNEF)
10SL	24.61	38.88	14.28	5/8-24 NEF	5/8-24 NEF
12S	26.97	42.87	14.28	3/4-20 NEF	5/8-24 NEF
12	26.97	52.37	19.05	3/4-20 NEF	5/8-24 NEF
14S	29.36	42.87	14.28	7/8-20 NEF	3/4-20 NEF
14	29.36	52.37	19.05	7/8-20 NEF	3/4-20 NEF
16S	31.75	42.87	14.28	1-20 NEF	7/8-20 NEF
16	31.75	52.37	19.05	1-20 NEF	7/8-20 NEF
18	34.13	52.37	19.05	1 1/8-18 NEF	1-20 NEF
20	37.31	55.57	19.05	1 1/4-18 NEF	1 3/16-18 NEF
22	40.48	55.57	19.05	1 3/8-18 NEF	1 3/16-18 NEF
24	43.66	58.72	20.63	1 1/2-18 NEF	1 7/16-18 NEF
28	50.01	58.72	20.63	1 3/4-18 NS	1 7/16-18 NEF
32	56.36	67.92	22.23	2-18 NS	1 3/4-18 NS
36	62.71	67.92	22.23	2 1/4-16 UN	2-18 NS

Amphenol MIL-C-5015 Connectors

MS3102A

BOX Mounting Receptacle

(Available with Plastic or Rubber insulators)



MS3102A box mounting receptacles are used on boxes and equipment cases where no cable support is required.

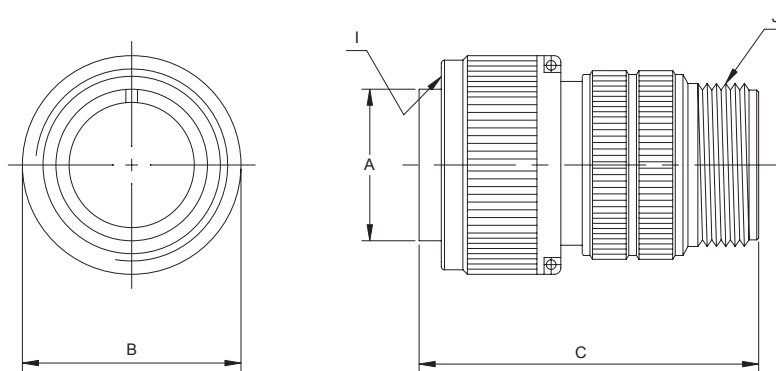
(mm)

Shell Size	□A ±0.79	□B ±0.12	C ±0.50	D +0.79 -0.00	∅F +0.25 -0.12	∅G Max	I Thread-2A (UNEF)
10SL	25.40	18.26	3.00	14.28	3.05	16.00	5/8-24 NEF
12S	27.80	20.62	3.00	14.28	3.05	16.50	3/4-20 NEF
12	27.80	20.62	3.00	19.05	3.05	16.50	3/4-20 NEF
14S	30.20	23.01	3.00	14.28	3.05	20.00	7/8-20 NEF
14	30.20	23.01	3.00	19.05	3.05	20.00	7/8-20 NEF
16S	32.50	24.61	3.00	14.28	3.05	23.00	1-20 NEF
16	32.50	24.61	3.00	19.05	3.05	23.00	1-20 NEF
18	34.90	26.97	4.00	19.05	3.05	26.00	1 1/8-18 NEF
20	38.10	29.36	4.00	19.05	3.05	29.00	1 1/4-18 NEF
22	41.30	31.75	4.00	19.05	3.05	32.50	1 3/8-18 NEF
24	44.50	34.93	4.00	20.63	3.73	35.50	1 1/2-18 NEF
28	50.80	39.67	4.00	20.63	3.73	42.00	1 3/4-18 NEF
32	57.20	44.45	4.00	22.23	4.39	48.00	2-18 NS
36	63.50	49.23	4.00	22.23	4.39	54.50	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3106A

Straight Plug



MS3106A straight plugs are used with 3100, 3101 and 3102 receptacles.

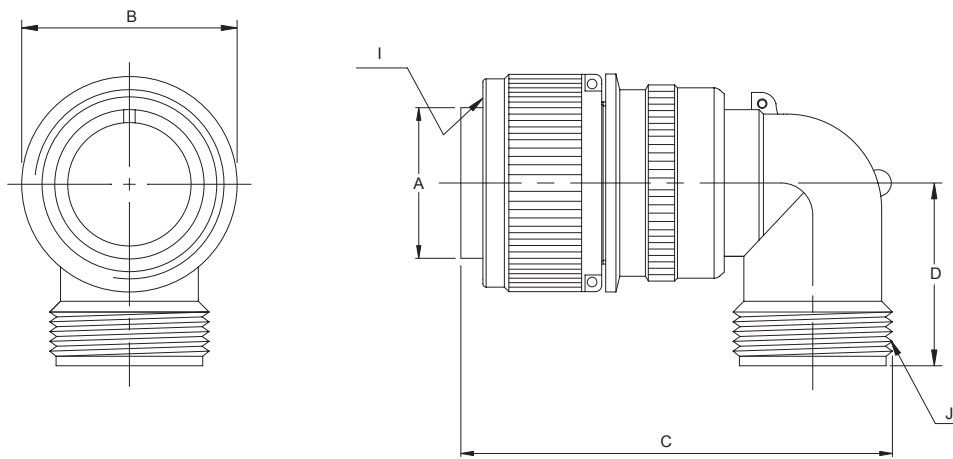
(mm)

Shell Size	Ø A +0.00 -0.38	Ø B Max	C Max	I Thread-2B (UNEF)	J Thread-2A (UNEF)
10SL	11.33	24.61	38.88	5/8-24 NEF	5/8-24 NEF
12S	14.10	26.97	42.87	3/4-20 NEF	5/8-24 NEF
12	14.10	26.97	52.37	3/4-20 NEF	5/8-24 NEF
14S	17.15	29.36	42.87	7/8-20 NEF	3/4-20 NEF
14	17.15	29.36	52.37	7/8-20 NEF	3/4-20 NEF
16S	20.45	31.75	42.87	1-20 NEF	7/8-20 NEF
16	20.45	31.75	52.37	1-20 NEF	7/8-20 NEF
18	23.62	34.13	52.37	1 1/8-18 NEF	1-20 NEF
20	26.67	37.31	55.57	1 1/4-18 NEF	1 3/16-18 NEF
22	29.85	40.48	55.57	1 3/8-18 NEF	1 3/16-18 NEF
24	33.02	43.66	58.72	1 1/2-18 NEF	1 7/16-18 NEF
28	38.61	50.01	58.72	1 3/4-18 NS	1 7/16-18 NEF
32	44.96	56.36	67.92	2-18 NS	1 3/4-18 NS
36	50.29	62.71	67.92	2 1/4-16 UN	2-18 NS

Amphenol MIL-C-5015 Connectors

MS3108A

Right Angle Plug



MS3108A Right Angle plugs, have a solid endbell and are used where wire must be brought at an abrupt angle. Either the split or solid endbells on the 3108 are capable of being rotated and locked.

(mm)

Shell Size	Ø A +0.00 -0.38	Ø B Max	C Max	D Max	I Thread-2B (UNEF)	J Thread-2A (UNEF)
10SL	11.33	24.61	46.02	25.40	5/8-24 NEF	5/8-24 NEF
12S*	14.10	26.97	50.80	26.90	3/4-20 NEF	5/8-24 NEF
12	14.10	26.97	57.15	26.90	3/4-20 NEF	5/8-24 NEF
14S	17.15	29.36	53.97	28.50	7/8-20 NEF	3/4-20 NEF
14	17.15	29.36	58.72	28.50	7/8-20 NEF	3/4-20 NEF
16S	20.45	31.75	60.32	30.10	1-20 NEF	7/8-20 NEF
16	20.45	31.75	65.07	30.10	1-20 NEF	7/8-20 NEF
18	23.62	34.13	68.27	33.30	1 1/8-18 NEF	1-20 NEF
20	26.67	37.71	76.98	34.90	1 1/4-18 NEF	1 3/16-18 NEF
22	29.85	40.48	76.98	34.90	1 3/8-18 NEF	1 3/16-18 NEF
24	33.02	43.66	86.51	39.60	1 1/2-18 NEF	1 7/16-18 NEF
28	38.61	50.01	86.51	39.60	1 3/4-18 NS	1 7/16-18 NEF
32	44.96	56.36	95.25	47.60	2-18 NS	1 3/4-18 NS
36	50.29	62.71	100.02	52.30	2 1/4-16 UN	2-18 NS

* No Tooling

Amphenol MIL-C-5015 Connectors MS/DS-E/F Class



Wall Mounting Receptacle



Cable connecting Receptacle



Box Mounting Receptacle



Straight Plug



Right Angle Plug

These MS connectors satisfy all the performance requirements of MIL-C-5015 and are recommended for conditions where vibration, moisture, pressure and/ or temperature and extreme. Strain relief is supplied on most shell sizes.

Shells:

Shell components are fabricated from high grade aluminum alloy.

The standard hardware plating is electrically zinc plated finish with an olive drab chromate after treatment for corrosion resistance.

Consult Amphenol Daeshin for other plating options.

Contacts:

Contacts are silver plated copper alloy for maximum corrosion resistance, maximum current carrying capacity and low millivolt drop.

Size 16 and 12 socket contacts incorporate a closed entry design.

Inserts:

Inserts are resilient synthetic rubber, offering high dielectric strength, high arc resistance to vibration.

Proprietary design permits pressurization of either pin or socket insert.

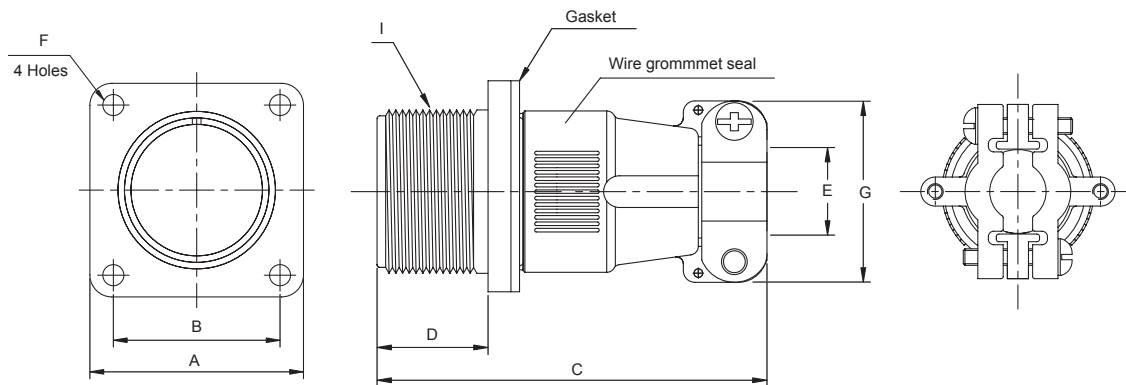
Strain relief clamp:

Strain relief clamp minimizes tension at the solder well connection and provides a positive mechanical moisture seal.

Complete field serviceability is possible with the strain relief clamp.

Amphenol MIL-C-5015 Connectors MS3100E(F)

Wall Mounting Receptacle Integral Cable Clamp



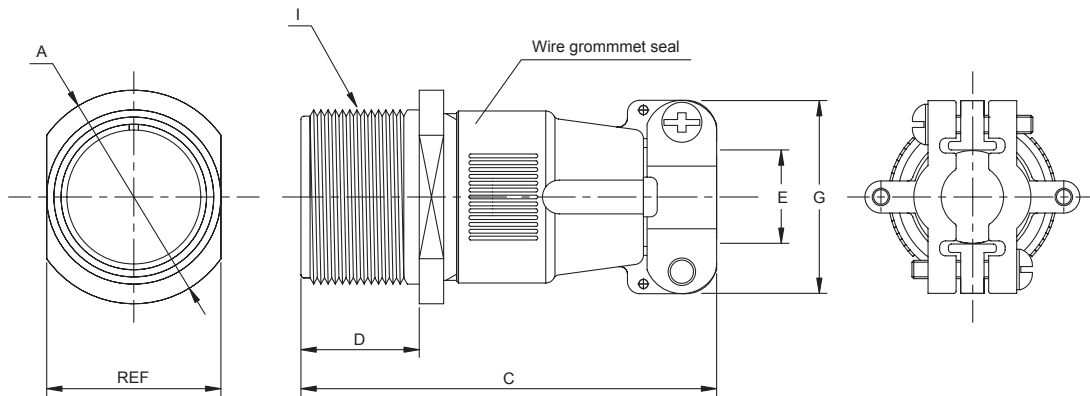
MS3100E/F wall mounting receptacles are used to carry wires thru walls or bulkheads, or to provide a means of disconnection at a bulkhead MS 3100E/F receptacles mate with 3106 and 3108 plugs.

(mm)

Shell Size	□A ±0.79	□B ±0.12	C Max	D +0.79 -0.00	∅E Max	∅F +0.25 -0.12	∅G Max	I Thread-2A (UNEF)
10SL	25.40	18.26	57.15	14.28	7.90	3.05	23.0	5/8-24 NEF
12S	27.79	20.62	57.15	14.28	7.90	3.05	23.0	3/4-20 NEF
12	27.79	20.62	66.67	19.05	7.90	3.05	23.0	3/4-20 NEF
14S	30.18	23.01	57.15	14.28	11.2	3.05	26.0	7/8-20 NEF
14	30.18	23.01	66.67	19.05	11.2	3.05	26.0	7/8-20 NEF
16S	32.54	24.61	57.15	14.28	14.2	3.05	29.0	1-20 NEF
16	32.54	24.61	66.67	19.05	14.2	3.05	29.0	1-20 NEF
18	34.93	26.97	68.27	19.05	16.0	3.05	31.6	1 1/8-18 NEF
20	38.10	29.36	69.85	19.05	19.1	3.05	37.5	1 1/4-18 NEF
22	41.28	31.75	69.85	19.05	19.1	3.05	37.5	1 3/8-18 NEF
24	44.45	34.93	75.41	20.63	23.8	3.73	43.0	1 1/2-18 NEF
28	50.80	39.67	76.98	20.63	23.8	3.73	43.0	1 3/4-18 NS
32	57.15	44.45	76.98	22.23	32.0	4.39	52.0	2-18 NS
36	63.50	49.23	83.33	22.23	35.0	4.39	58.0	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors MS3101E(F)

Cable Connecting Receptacle Integral Cable Clamp



MS3101E/F cable connecting receptacles are used for cable extension requirements, where mounting provisions are unnecessary. MS3101E/F receptacles mate with 3106 and 3108 plugs.

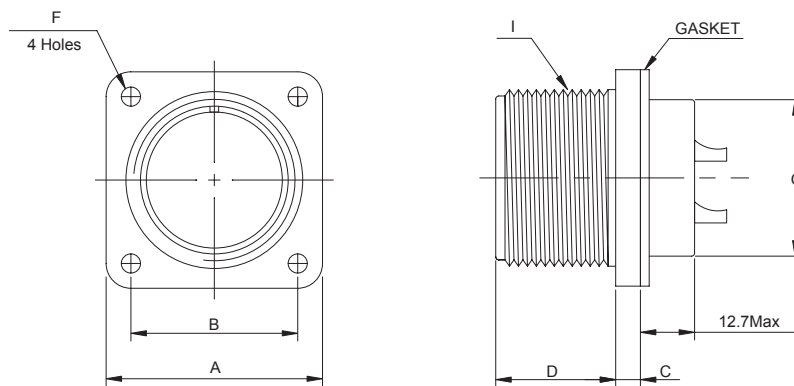
(mm)

Shell Size	A Max	C Max	D +0.79 -0.00	Ø E Max	Ø G Max	I Thread-2A (UNEF)
10SL	25.40	57.15	14.28	7.9	23.0	5/8-24 NEF
12S	27.79	57.15	14.28	7.9	23.0	3/4-20 NEF
12	27.79	66.67	19.05	7.9	23.0	3/4-20 NEF
14S	30.18	57.15	14.28	11.2	26.0	7/8-20 NEF
14	30.18	66.67	19.05	11.2	26.0	7/8-20 NEF
16S	32.54	57.15	14.28	14.2	29.0	1-20 NEF
16	32.54	66.67	19.05	14.2	29.0	1-20 NE
18	34.93	68.27	19.05	16.0	31.6	1 1/8-18 NEF
20	38.10	69.85	19.05	19.1	37.5	1 1/4-18 NEF
22	41.28	69.85	19.05	19.1	37.5	1 3/8-18 NEF
24	44.45	75.41	20.63	23.8	43.0	1 1/2-18 NEF
28	50.80	76.98	20.63	23.8	43.0	1 3/4-18 NS
32	57.15	76.98	22.23	32.0	52.0	2-18 NS
36	63.50	83.33	22.23	35.0	58.0	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3102E

Box Mounting Receptacle



MS3102E box mounting receptacles are used in junction boxes or as an integral part of equipment. These connectors are identical with 3102A in construction.

(mm)

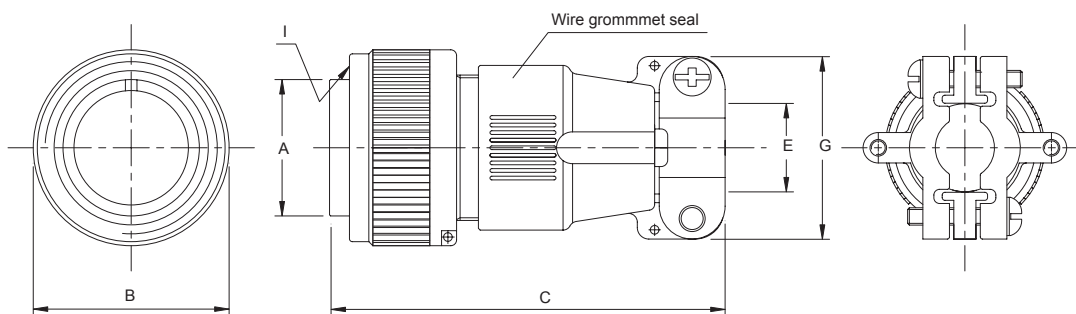
Shell Size	□A ±0.79	□B ±0.12	C ±0.5	D +0.79 -0.00	∅F +0.25 -0.12	∅G Max	I Thread-2A (UNEF)
10SL	25.40	18.26	3.0	14.28	3.05	16.0	5/8-24 NEF
12S	27.79	20.62	3.0	14.28	3.05	16.5	3/4-20 NEF
12	27.79	20.62	3.0	19.05	3.05	16.5	3/4-20 NEF
14S	30.18	23.01	3.0	14.28	3.05	20.0	7/8-20 NEF
14	30.18	23.01	3.0	19.05	3.05	20.0	7/8-20 NEF
16S	32.54	24.61	3.0	14.28	3.05	23.0	1-20 NEF
16	32.54	24.61	3.0	19.05	3.05	23.0	1-20 NEF
18	34.93	26.97	4.0	19.05	3.05	26.0	1 1/8-18 NEF
20	38.10	29.36	4.0	19.05	3.05	29.0	1 1/4-18 NEF
22	41.28	31.75	4.0	19.05	3.05	32.5	1 3/8-18 NEF
24	44.45	34.93	4.0	20.63	3.73	35.5	1 1/2-18 NEF
28	50.80	39.67	4.0	20.63	3.73	42.0	1 3/4-18 NS
32	57.15	44.45	4.0	22.23	4.39	48.0	2-18 NS
36	63.50	49.23	4.0	22.23	4.39	54.5	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3106E(F)

Straight Plug

Integral Cable Clamp



MS3106E/F straight plugs mate with 3100,3101 and 3102 receptacles

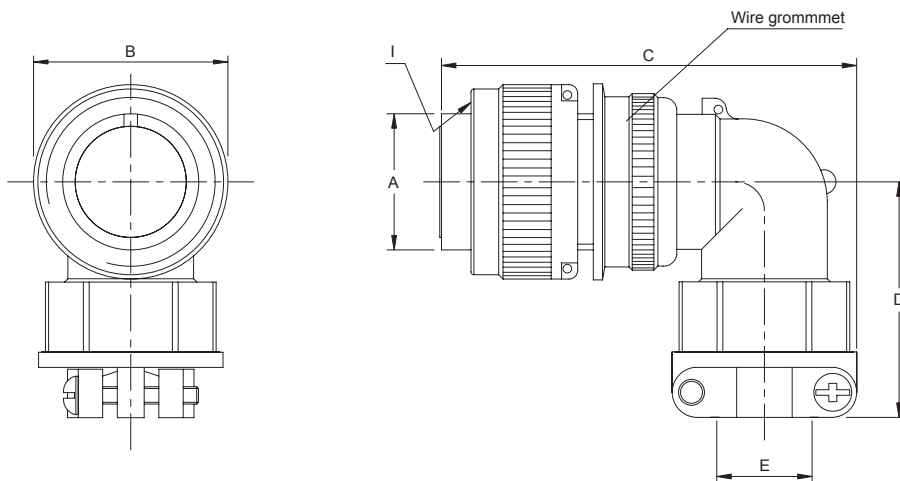
(mm)

Shell Size	A +0.00 -0.38	B Max	C Max	Ø E Max	Ø G Max	I Thread-2B (UNEF)
10SL	11.33	24.61	57.15	7.9	23.0	5/8-24 NEF
12S	14.10	26.97	57.15	7.9	23.0	3/4-20 NEF
12	14.10	26.97	66.67	7.9	23.0	3/4-20 NEF
14S	17.15	29.36	57.15	11.2	26.0	7/8-20 NEF
14	17.15	29.36	66.67	11.2	26.0	7/8-20 NEF
16S	20.45	31.75	57.15	14.2	29.0	1-20 NEF
16	20.45	31.75	66.67	14.2	29.0	1-20 NEF
18	23.62	34.13	68.27	16.0	31.6	1 1/8-18 NEF
20	26.67	37.31	69.85	19.1	37.5	1 1/4-18 NEF
22	29.85	40.48	69.85	19.1	37.5	1 3/8-18 NEF
24	33.02	43.66	75.41	23.8	43.0	1 1/2-18 NEF
28	38.61	50.01	76.98	23.8	43.0	1 3/4-18 NS
32	44.96	56.36	76.98	32.0	52.0	2-18 NS
36	50.29	62.71	83.33	35.0	58.0	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3108E

Right Angle Plug



MS3108E Right angle plugs are used where there is limited space and where wires must be brought at abrupt angles. This plug mate with 3100, 3101 and 3102 receptacles

(mm)

Shell Size	A +0.00 -0.38	B Max	C Max	D Max	Ø E Max	I Thread-2B (UNEF)
10SL	11.33	24.61	55.57	38.1	7.9	5/8-24 NEF
12S*	14.10	26.97	55.57	38.1	7.9	3/4-20 NEF
12*	14.10	26.97	64.28	38.1	7.9	3/4-20 NEF
14S	17.15	29.36	58.72	40.4	11.2	7/8-20 NEF
14	17.15	29.36	68.27	40.4	11.2	7/8-20 NEF
16S	20.45	31.75	61.11	42.8	14.2	1-20 NEF
16	20.45	31.75	70.63	42.8	14.2	1-20 NEF
18	23.62	34.13	72.23	45.2	16.0	1 1/8-18 NEF
20	26.67	37.31	82.55	50.0	19.1	1 1/4-18 NEF
22	29.85	40.48	82.55	50.8	19.1	1 3/8-18 NEF
24	33.02	43.66	94.46	53.9	23.8	1 1/2-18 NEF
28	38.61	50.01	94.46	55.5	23.8	1 3/4-18 NS
32	44.96	56.36	106.37	65.8	32.0	2-18 NS
36	50.29	62.71	109.14	69.0	35.0	2 1/4-16 UN

* No Tooling

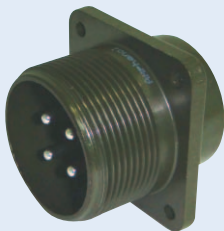
Amphenol MIL-C-5015 Connectors MS/DS R-Class



Wall Mounting Receptacle



Cable connecting Receptacle



Box Mounting Receptacle



Straight Plug



Right Angle Plug

Specification requirements for greater reliability in a shorter, lighter weight environmental resistant connector led to the design of the MS-R.

These low profile assemblies were attained by moving the axial compression nut and grommet assembly forward and flash with the rear of the insert.

The silicon rubber grommet, with its low coefficient of friction, assures easier threading of wire bundles and quicker assembly and serviceability of the unit.

Molded webs in each wire hole insure a moisture barrier around each wire.

The addition 'O'ring at the main joint of all MS3106R plugs provide a main joint seal supplementary to interfacial seal, thus insuring of higher degree of reliability when connectors halves from different sources are employed.

MS-R types are recommended for new design applications.

Shells:

Shell component are fabricated from high grade aluminum alloy. All components have the standard electrically zinc plated finish with an olive drab chromate after treatment for corrosion resistance. Consult Amphenol Daeshin for other plating options.

Contacts:

Contacts are machined from copper alloy for maximum current carrying capacity and low millivolt drop.

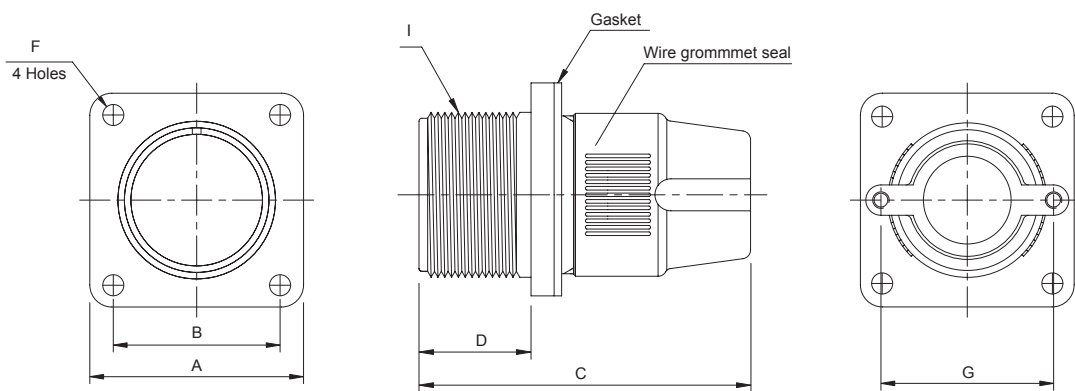
Inserts:

Resilient synthetic rubber insert provide an outstanding moisture barrier, maximum vibration resistance and high dielectric strength. Either pin or socket insert can be pressurized.

Amphenol MIL-C-5015 Connectors

MS3100R

Wall Mounting Receptacle



MS3100R receptacles are identical in purpose to the MS3100F.
The MS3100R features a shorter lightweight endbell.

(mm)

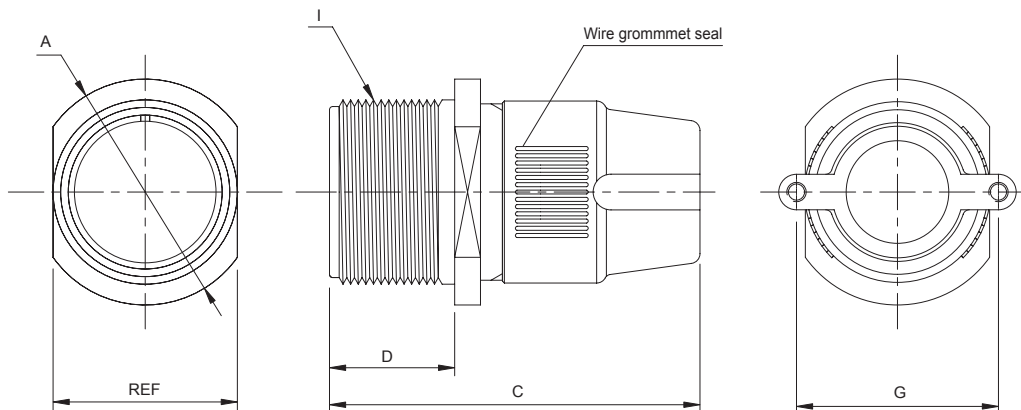
Shell Size	□A ±0.79	□B ±0.12	C Max	D +0.79 -0.00	G ±0.12	∅F +0.25 -0.12	I Thread-2A (UNEF)
10SL	25.40	18.26	46.68	14.28	19.0	3.05	5/8-24 NEF
12S	27.79	20.62	46.68	14.28	19.0	3.05	3/4-20 NEF
12	27.79	20.62	55.39	19.05	19.0	3.05	3/4-20 NEF
14S	30.18	23.01	46.68	14.28	22.6	3.05	7/8-20 NEF
14	30.18	23.01	66.67	19.05	22.6	3.05	7/8-20 NEF
16S	32.54	24.61	46.68	14.28	26.2	3.05	1-20 NEF
16	32.54	24.61	55.39	19.05	26.2	3.05	1-20 NEF
18	34.93	26.97	57.93	19.05	31.2	3.05	1 1/8-18 NEF
20	38.10	29.36	57.93	19.05	34.3	3.05	1 1/4-18 NEF
22	41.28	31.75	57.93	19.05	39.8	3.05	1 3/8-18 NEF
24	44.45	34.93	57.93	20.63	40.5	3.73	1 1/2-18 NEF
28	50.80	39.67	57.93	20.63	40.5	3.73	1 3/4-18 NS
32	57.15	44.45	57.93	22.23	48.0	4.39	2-18 NS
36	63.50	49.23	58.97	22.23	53.0	4.39	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3101R

Cable Connecting Receptacle

(Receptacle with no mounting flange)



MS3101R cable connecting receptacles are identical in purpose to the MS3101E.

The MS3101R features a shorter lightweight endbell.

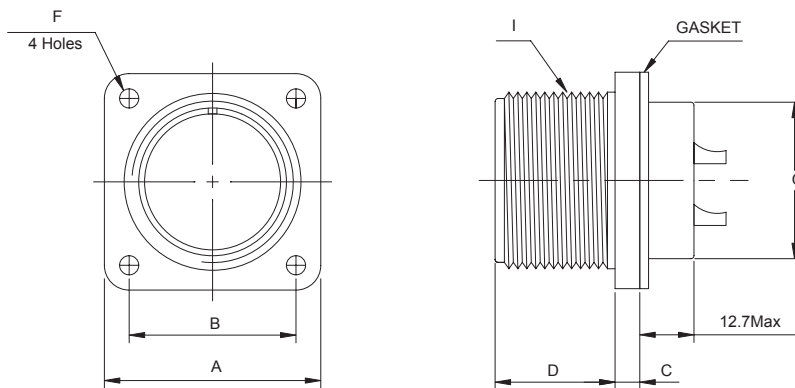
(mm)

Shell Size	A Max	C Max	D +0.79 -0.00	G ±0.12	I Thread-2A (UNEF)
10SL	24.61	46.68	14.28	19.0	5/8-24 NEF
12S	26.97	46.68	14.28	19.0	3/4-20 NEF
12	26.97	55.39	19.05	19.0	3/4-20 NEF
14S	29.36	46.68	14.28	22.6	7/8-20 NEF
14	29.36	55.39	19.05	22.6	7/8-20 NEF
16S	31.75	46.68	14.28	26.2	1-20 NEF
16	31.75	55.39	19.05	26.2	1-20 NEF
18	34.13	57.93	19.05	31.2	1 1/8-18 NEF
20	37.31	57.93	19.05	34.3	1 1/4-18 NEF
22	40.48	57.93	19.05	39.8	1 3/8-18 NEF
24	43.66	57.93	20.63	40.5	1 1/2-18 NEF
28	50.01	57.93	20.63	40.5	1 3/4-18 NS
32	56.36	57.93	22.23	48.0	2-18 NS
36	62.71	58.97	22.23	53.0	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3102R

Box Mounting Receptacle



MS3102R box mounting receptacles are used in junction boxes or as an integral part of equipment. These connectors are identical with 3102A in construction.

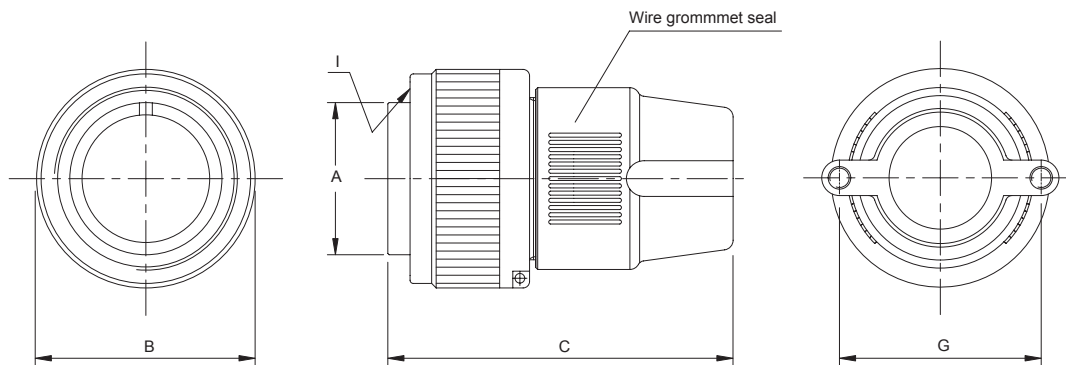
(mm)

Shell Size	□A ±0.79	□B ±0.12	C ±0.5	D +0.79 -0.00	∅F +0.25 -0.12	∅G Max	I Thread-2A (UNEF)
10SL	25.40	18.26	3.0	14.28	3.05	16.0	5/8-24 NEF
12S	27.79	20.62	3.0	14.28	3.05	16.5	3/4-20 NEF
12	27.79	20.62	3.0	19.05	3.05	16.5	3/4-20 NEF
14S	30.18	23.01	3.0	14.28	3.05	20.0	7/8-20 NEF
14	30.18	23.01	3.0	19.05	3.05	20.0	7/8-20 NEF
16S	32.54	24.61	3.0	14.28	3.05	23.0	1-20 NEF
16	32.54	24.61	3.0	19.05	3.05	23.0	1-20 NEF
18	34.93	26.97	4.0	19.05	3.05	26.0	1 1/8-18 NEF
20	38.10	29.36	4.0	19.05	3.05	29.0	1 1/4-18 NEF
22	41.28	31.75	4.0	19.05	3.05	32.0	1 3/8-18 NEF
24	44.45	34.93	4.0	20.63	3.73	35.5	1 1/2-18 NEF
28	50.80	39.67	4.0	20.63	3.73	42.0	1 3/4-18 NS
32	57.15	44.45	4.0	22.23	4.39	48.0	2-18 NS
36	63.50	49.23	4.0	22.23	4.39	55.0	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3106R

Straight Plug



MS3106R straight plugs are identical in purpose to the MS3106F.

The MS3106R has the shorter endbell.

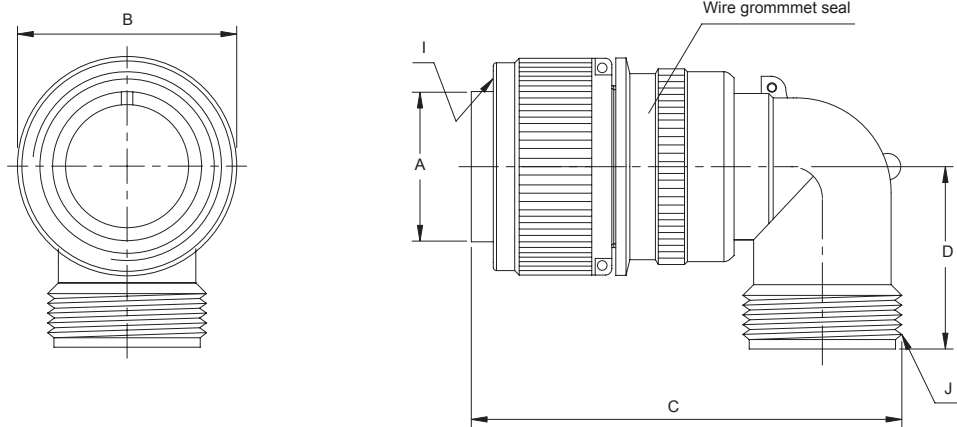
(mm)

Shell Size	A +0.00 -0.38	B Max	C Max	G ±0.12	I Thread-2B (UNEF)
10SL	11.33	24.61	46.68	19.0	5/8-24 NEF
12S	14.10	26.97	46.68	19.0	3/4-20 NEF
12	14.10	26.97	55.39	19.0	3/4-20 NEF
14S	17.15	29.36	46.68	22.6	7/8-20 NEF
14	17.15	29.36	55.39	22.6	7/8-20 NEF
16S	20.45	31.75	46.68	26.2	1-20 NEF
16	20.45	31.75	55.39	26.2	1-20 NEF
18	23.62	34.13	57.93	31.2	1 1/8-18 NEF
20	26.67	37.31	57.93	34.3	1 1/4-18 NEF
22	29.85	40.48	57.93	39.8	1 3/8-18 NEF
24	33.02	43.66	57.93	40.5	1 1/2-18 NEF
28	38.61	50.01	57.93	40.5	1 3/4-18 NS
32	44.96	56.36	57.93	48.0	2-18 NS
36	50.29	62.71	58.97	53.0	2 1/4-16 UN

Amphenol MIL-C-5015 Connectors

MS3108R

Right Angle Plug



MS3108R Right angle plugs are used where there is limited space and where wires must be brought at abrupt angles.

(mm)

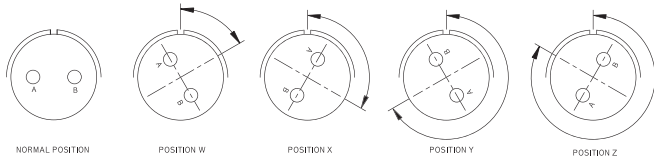
Shell Size	Ø A +0.00 -0.38	Ø B +0.00 -0.38	C Max	D Max	I Thread-2B (UNEF)	J Thread-2A (UNEF)
10SL	11.33	24.61	46.02	25.4	5/8-24 NEF	5/8-24NEF
12S*	14.10	26.97	50.80	26.9	3/4-20 NEF	5/8-24 NEF
12*	14.10	26.97	57.15	26.9	3/4-20 NEF	5/8-24 NEF
14S	17.15	29.36	53.97	28.5	7/8-20 NEF	3/4-20 NEF
14	17.15	29.36	58.72	28.5	7/8-20 NEF	3/4-20 NEF
16S	20.45	31.75	60.32	30.1	1-20 NEF	7/8-20 NEF
16	20.45	31.75	65.07	30.1	1-20 NEF	7/8-20 NEF
18	23.62	34.13	68.27	33.3	1 1/8-18 NEF	1-20 NEF
20	26.67	37.31	76.98	34.9	1 1/4-18 NEF	1 3/16-18 NEF
22	29.85	40.48	76.98	34.9	1 3/8-18 NEF	1 3/16-18 NEF
24	33.02	43.66	86.51	39.6	1 1/2-18 NEF	1 7/16-18 NEF
28	38.61	50.01	86.51	39.6	1 3/4-18 NS	1 7/16-18 NEF
32	44.96	56.36	95.25	47.6	2-18 NS	1 3/4-18 NS
36	50.29	62.71	100.02	52.3	2 1/4-16 UN	2-18 NS

* No tooling

Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Insert Arrangements & Alternate Positioning



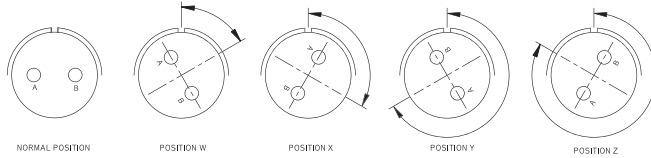
Contact Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees				
			0	4	8	12	16	W	X	Y	Z	
10SL-2	A	1					1	-	-	-	-	
10SL-3	A	3					3	-	-	-	-	
10SL-4	A	2					2	63	-	-	-	
12S-1	A	2					2	-	-	-	-	
12S-3	A	2					2	70	145	215	290	
12S-5	D	1				1		-	-	-	-	
14S-1	A	3					3	-	-	-	-	
14S-2	Inst	4					4	-	120	240	-	
14S-5	Inst	5					5	-	110	-	-	
14S-6	Inst	6					6	-	-	-	-	
14S-7	A	3					3	90	180	270	-	
14S-9	A	2					2	70	145	215	290	
14S-07	A	7					7	-	-	-	-	
16S-1	A	7					7	80	-	-	280	
16S-4	D	2					2	35	110	250	325	
16S-5	A	3					3	70	145	215	290	
16S-8	A	5					5	-	170	265	-	
16-9	A	4				2	2	35	110	250	325	
16-10	A	3					3	90	180	270	-	
16-11	A	2					2	35	110	250	325	
16-12	A	1		1				-	-	-	-	
16-13	A	2					2	35	110	250	325	
18-1	A/Inst	10					10	70	145	215	290	
18-3	D	2					2	35	110	250	325	
18-4	D	4					4	35	110	250	325	
18-5	D	3					2	1	80	110	250	280
18-8	A	8					1	7	70	-	290	
18-9	Inst.	7					2	5	80	110	250	280
18-10	A	4					4	-	120	240	-	
18-11	A	5					5	-	170	265		
18-12	A	6					6	80	-	-	280	
18-13	A	4			1	3		80	110	250	280	
18-15	A	4					4	-	120	240	-	

Contact Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees				
			0	4	8	12	16	W	X	Y	Z	
18-19	A	10					10	-	120	240	-	
18-20	A	5					5	90	180	270	-	
18-21	A	3					3	-	-	-	-	
18-22	D	3					3	70	145	215	290	
18-32	A	8					8	-	-	-	-	
20-2	D	1	1					-	-	-	-	
20-3	D	3					3	40	145	215	290	
20-4	D	4					4	45	110	250	-	
20-7	D/A	8					8	80	110	250	280	
20-8	Inst.	6			2		4	80	110	250	280	
20-11	Inst.	13					13	-	-	-	-	
20-15	A	7					7	80	-	-	280	
20-16	A	9					2	7	80	110	250	280
20-17	A	6					5	1	90	180	270	-
20-18	A	9					3	6	35	110	250	325
20-19	A	3					3		90	180	270	-
20-22	A	6					3	3	80	110	250	280
20-23	A	2					2		35	110	250	325
20-27	A	14					14	35	110	250	325	
20-29	A	17					17	80	-	-	20	
20-33	A	11					11	-	-	-	-	
20-01	A	10					10	-	-	-	-	
22-1	D	2					2		35	110	250	325
22-2	D	3					3		70	145	215	290
22-4	A	4					2	2	35	110	250	325
22-7	E	1	1						-	-	-	-
22-8	E	2					2		35	110	250	325
22-9	E	3					3		70	145	215	290
22-10	E	4					4	35	110	250	325	
22-11	B	2					2	35	110	250	325	
22-12	D	5					3	80	110	250	280	
22-13	D/A	5					4	1	34	110	250	325
22-14	A	19					19	80	110	250	280	

Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Insert Arrangements & Alternate Positioning



Contact Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees			
			0	4	8	12	16	W	X	Y	Z
22-15	E/A	6				5	1	80	110	250	280
22-18	A/D	8					8	80	110	250	280
22-19	A	14					14	80	110	250	280
22-20	A	9					9	35	110	250	325
22-21	A	3	1				2	-	-	-	-
22-22	A	4			4			-	110	250	-
22-23	D/A	8				8		35	-	250	-
22-27	D/A	9			1		8	80	-	250	280
22-28	A	7				7		80	-	-	280
24-2	D	7				7		80	-	-	28
24-5	A	16					16	80	110	250	280
24-6	D/A	8				8		80	110	250	280
24-7	A	16				2	14	80	110	250	280
24-9	A	2		2				35	110	250	325
24-10	A	7			7			80	-	-	280
24-11	A	9			3	6		35	110	250	32
24-12	A	5		2		3		80	110	250	280
24-20	D	11				2	9	80	110	250	280
24-22	D	4			4			45	110	250	-
24-28	Inst	24					24	80	110	250	280
24-02	A	9				9		-	-	-	-
24-03	A	12					12	-	-	-	-
28-1	D/A	9			3	6		80	110	250	280
28-3	E	3			3			70	145	215	290
28-6	D	3		3				70	145	215	290
28-7	D	2		2				35	110	250	325
28-9	D	12				6	6	80	110	250	280
28-10	D/A	7		2	2	3		80	110	250	280
28-11	A	22				4	18	80	110	250	280
28-12	A	26					26	90	180	270	-
28-15	A	35					35	80	110	250	280
28-16	A	20					20	80	110	250	280
28-17	B/D/A	15					15	-	-	-	-

Contact Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position-Degrees				
			0	4	8	12	16	W	X	Y	Z	
28-18	A	12					12	-	-	-	-	
28-19	B/D/A	10				4	6	80	110	250	280	
28-20	A	14					10	4	80	110	250	280
28-21	A	37						37	80	110	250	280
28-22	D	6		3				3	70	145	215	290
28-05	A	5			5				-	-	-	-
28-51	A	12					12		-	-	-	-
32-1	E/D	5	2			3		80	110	250	280	
32-5	D	2	2					35	110	250	325	
32-6	A	23		2	3	2	16	80	110	250	325	
32-7	INST/A	35				7	28	80	125	235	280	
32-8	A	30				6	24	80	125	235	280	
32-9	D	14		2			12	80	110	250	280	
32-15	D	8	2			6		35	110	250	280	
32-17	D	4		4				45	110	250	280	
32-22	A	54					54	80	110	250	280	
32-03	A	3		3				-	-	-	-	
32-59	A	42			2		40	-	-	-	-	
36-1	D	22				4	18	80	110	250	280	
36-3	D	6	3			3		70	145	215	290	
36-4	D/A	3	3					70	145	215	290	
36-5	A	4	4					-	120	240	-	
36-7	A	47				7	40	80	110	250	280	
36-8	A	47				1	46	80	110	250	280	
36-9	A	31		1	2	14	14	80	125	235	280	
36-10	A	48					48	80	125	235	280	
36-15	D/A	35					35	60	125	245	305	
36-30	A	30				30		-	-	-	-	
36-40	A	40				22	18	-	-	-	-	
36-52	A	52					52	72	144	216	288	
36-02	A	27				27		-	-	-	-	
36-03	A	20				20		-	-	-	-	
36-04	A	22				22		-	-	-	-	

Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Contact Arrangements

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

		Front of Socket Insert	Front of Socket Insert				
Insert Arrangement	10SL-2	10SL-3	10SL-4	12S-1	12S-3	12S-5	14S-1
Service Rating	A	A	A	A	A	D	A
Number of Contacts	1	3	2	2	2	1	3
Contact Size	16	16	16	16	16	12	16
Insert Arrangement	14S-2	14S-5	14S-6	14S-7	14S-9	14S-07	16S-1
Service Rating	Inst.	Inst.	Inst.	A	A	A	A
Number of Contacts	4	5	6	3	2	7	7
Contact Size	16	16	16	16	16	16	16
Insert Arrangement	16S-4	16S-5	16S-8	16-9	16-10	16-11	
Service Rating	D	A	A	A	A	A	
Number of Contacts	2	3	5	2	3	2	
Contact Size	16	16	16	12	16	12	



CONTACT LEGEND 16 12 8 4 0

Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Contact Arrangements

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

Insert Arrangement	16-12	16-13	18-1	18-3	18-4
Service Rating	A	A	B, C, F, G=A; Bal.=Inst	D	D
Number of Contacts	1	2	10	2	4
Contact Size	4	12	16	12	16
Insert Arrangement	18-5	18-8	18-9	18-10	18-11
Service Rating	D	A	Inst.	A	A
Number of Contacts	2 1	1 7	2 5	4	5
Contact Size	12 16	12 16	12 16	12	12
Insert Arrangement	18-12	18-13	18-15	18-19	18-20
Service Rating	A	A	A	A	A
Number of Contacts	6	1 3	4	10	5
Contact Size	16	8 12	12	16	16

CONTACT LEGEND 16 12 8 4 0

Amphenol MIL-C-5015 Connectors

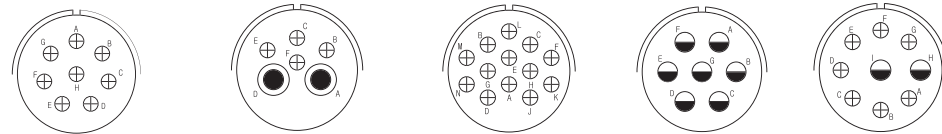
MS- A,E/F,R Class

Contact Arrangements

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



Insert Arrangement	18-21	18-22	18-32	20-2	20-3	20-4
Service Rating	A	D	A	D	D	D
Number of Contacts	3	3	8	1	3	4
Contact Size	12	16	16	0	12	12



Insert Arrangement	20-7	20-8	20-11	20-15	20-16
Service Rating	H, G=D: C, D, E, F=A	Inst.	Inst.	A	A
Number of Contacts	8	2 4	13	7	2 7
Contact Size	16	8 16	16	12	12 16



Insert Arrangement	20-17	20-18	20-19	20-22
Service Rating	A	A	A	A
Number of Contacts	5 1	3 6	3	3 3
Contact Size	12 16	12 16	8	8 16



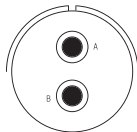
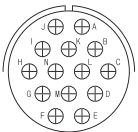
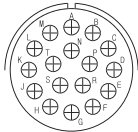
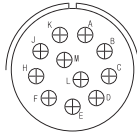
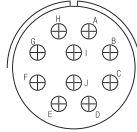
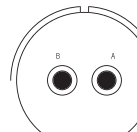
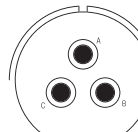
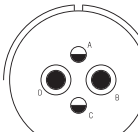
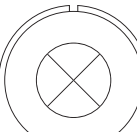
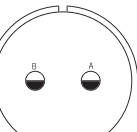
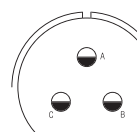
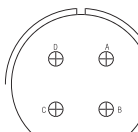
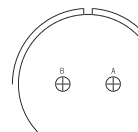
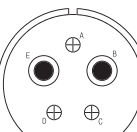
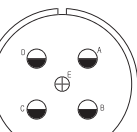

CONTACT LEGEND 16 12 8 4 0

Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Contact Arrangements

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

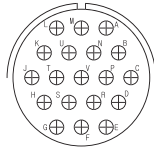
					
Insert Arrangement	20-23	20-27	20-29	20-33	20-01
Service Rating	A	A	A	A	A
Number of Contacts	2	14	17	11	10
Contact Size	8	16	16	16	16
					
Insert Arrangement	22-1	22-2	22-4	22-7	22-8
Service Rating	D	D	A	E	E
Number of Contacts	2	3	2 2	1	2
Contact Size	8	8	8 12	0	12
					
Insert Arrangement	22-9	22-10	22-11	22-12	22-13
Service Rating	E	E	B	D	E=D; A, B, C, D=A
Number of Contacts	3	4	2	2 3	4 1
Contact Size	12	16	16	8 16	12 16
					
	CONTACT LEGEND 16 12 8 4 0				

Amphenol MIL-C-5015 Connectors

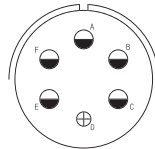
MS- A,E/F,R Class

Contact Arrangements

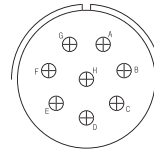
Front face of pin insert or rear face of socket insert illustrated



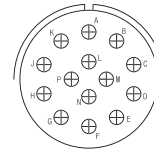
Insert Arrangement 22-14
Service Rating A
Number of Contacts 19
Contact Size 16



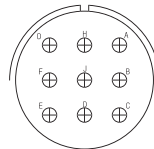
22-15
D=E; A, B, C, E, F=A
5 1
12 16



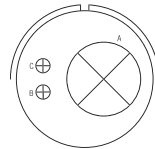
22-18
A,B,F,G,H=D; C,D,E=A
8
16



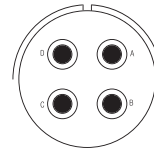
22-19
A
14
16



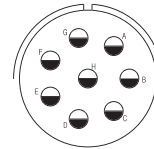
Insert Arrangement 22-20
Service Rating A
Number of Contacts 9
Contact Size 16



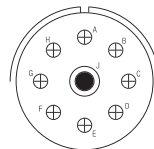
22-21
A
1 2
0 16



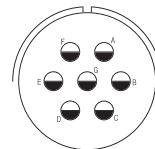
22-22
A
4
8



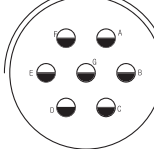
22-23
H=D; Bal.=A
8
12



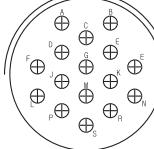
Insert Arrangement 22-27
Service Rating J=D; Bal.=A
Number of Contacts 1 8
Contact Size 8 16



22-28
A
7
12



24-2
D
7
12



24-5
A
16
16



CONTACT LEGEND 16 12 8 4 0

Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Contact Arrangements

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

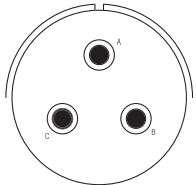
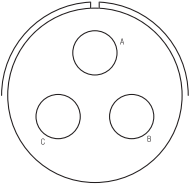
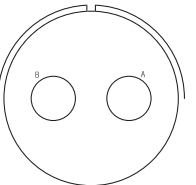
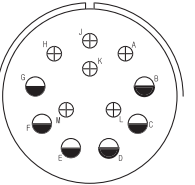
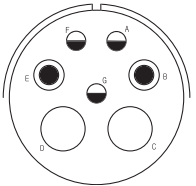
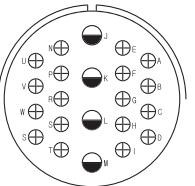
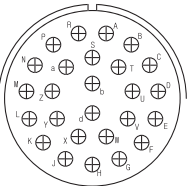
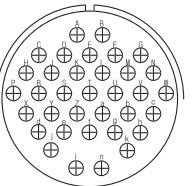
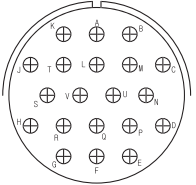
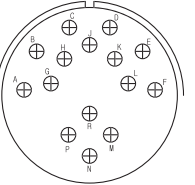
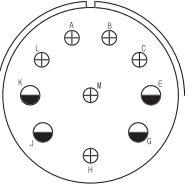
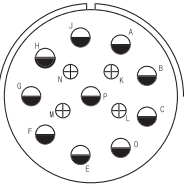
Insert Arrangement	24-6	24-7	24-9	24-10
Service Rating	A, G, H=D; Bal.=A	A	A	A
Number of Contacts	8	2 14	2	7
Contact Size	12	12 16	4	8
Insert Arrangement	24-11	24-12	24-20	24-22
Service Rating	A	A	D	D
Number of Contacts	3 6	2 3	2 9	4
Contact Size	8 12	4 12	1 16	8
Insert Arrangement	24-28	24-02	24-03	28-1
Service Rating	Inst.	A	A	A, J, E=D; Bal.=A
Number of Contacts	24	9	12	3 6
Contact Size	16	12	16	8 12
	CONTACT LEGEND 16 12 8 4 0			


Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Contact Arrangements

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

				
Insert Arrangement	28-3	28-6	28-7	28-9
Service Rating	E	D	D	D
Number of Contacts	3	3	2	6 6
Contact Size	8	4	4	12 16
				
Insert Arrangement	28-10	28-11	28-12	28-15
Service Rating	G=D; Bal. A	A	A	A
Number of Contacts	2 2 3	4 18	26	35
Contact Size	4 8 12	12 16	16	16
				
Insert Arrangement	28-16	28-17	28-19	28-20
Service Rating	A	R=B;M,N,P=D;A to L=A	H,M=B;A,B=D;Bal.=A	A
Number of Contacts	20	15	4 6	10 4
Contact Size	16	16	12 16	12 16



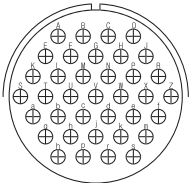
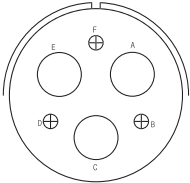
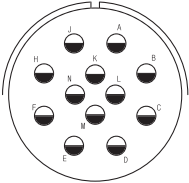
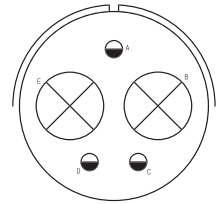
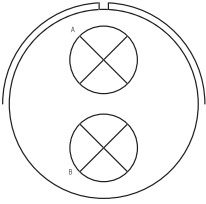
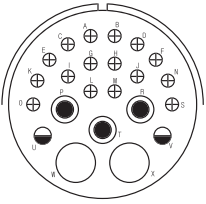
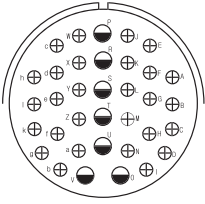
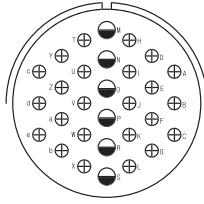
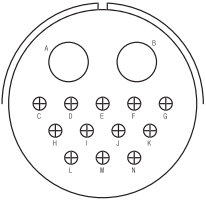
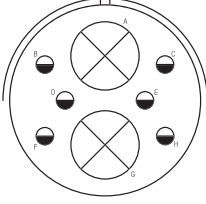
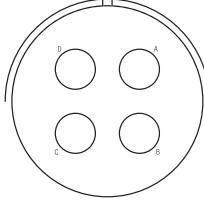

CONTACT LEGEND 16 12 8 4 0

Amphenol MIL-C-5015 Connectors

MS- A,E/F,R Class

Contact Arrangements

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

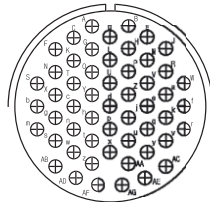
				
Insert Arrangement	28-21	28-22	28-51	32-1
Service Rating	A	D	A	A=E; B, C, D, E=D
Number of Contacts	37	3 3	12	2 3
Contact Size	16	4 16	12	0 12
				
Insert Arrangement	32-5	32-6	32-7	32-8
Service Rating	D	A	A, B, h, j=Inst.; Bal.=A	A
Number of Contacts	2	2 3 2 16	7 28	6 24
Contact Size	0	4 8 12 16	12 16	12 16
				
Insert Arrangement	32-9	32-15	32-17	
Service Rating	D	D	D	
Number of Contacts	2 12	2 6	4 4	
Contact Size	4 16	0 12	4	
				
	CONTACT LEGEND 16 12 8 4 0			

Amphenol MIL-C-5015 Connectors

MS Series A,E/F,R Class

Contact Arrangements

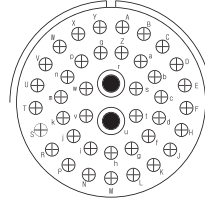
Front face of pin insert or rear face of socket insert illustrated



32-22

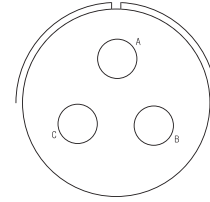
Insert Arrangement
Service Rating
Number of Contacts
Contact Size

A
54
16



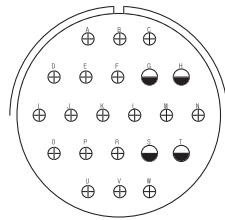
32-59

A
2 40
8 16



32-03

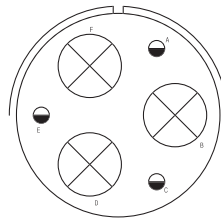
A
3
4



36-1

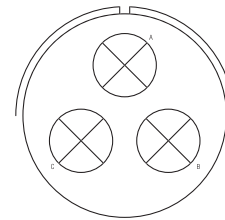
Insert Arrangement
Service Rating
Number of Contacts
Contact Size

D
4 18
12 16



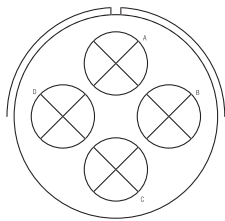
36-3

D
3 3
0 12



36-4

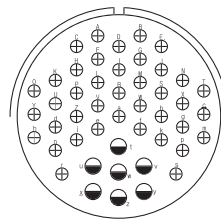
A=D; B, C=A
3
0



36-5

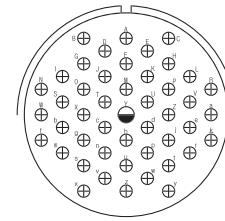
Insert Arrangement
Service Rating
Number of Contacts
Contact Size

A
4
0



36-7

A
7 40
12 16



36-8

A
1 46
12 16

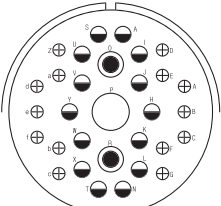
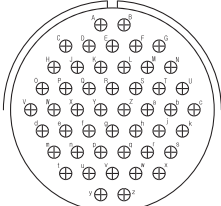
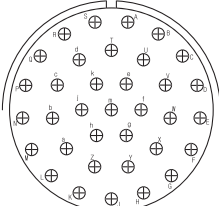
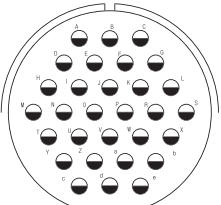
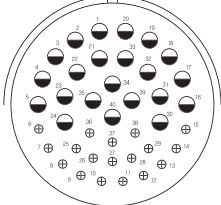
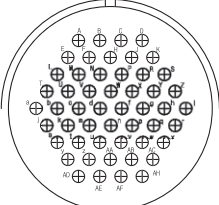
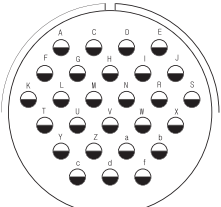
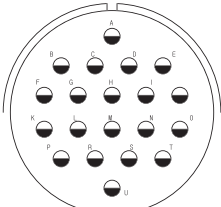
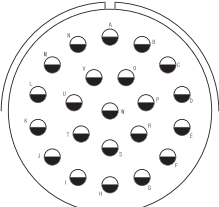



CONTACT LEGEND

16 12 8 4 0

Amphenol MIL-C-5015 Connectors MS Series A,E/F,R Class Contact Arrangements

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

			
Insert Arrangement	36-9	36-10	36-15
Service Rating	A	A	M=D; Bal.=A
Number of Contacts	1 2 14 14	48	35
Contact Size	4 8 12 16	16	16
			
Insert Arrangement	36-30	36-40	36-52
Service Rating	A	A	A
Number of Contacts	30	22 18	52
Contact Size	12	12 16	16
			
Insert Arrangement	36-02	36-03	36-04
Service Rating	A	A	A
Number of Contacts	27	20	22
Contact Size	12	12	12
	 CONTACT LEGEND 16 12 8 4 0		

Amphenol MIL-C-5015 Connectors

MS Series

Accessories



Plug Protection Cap



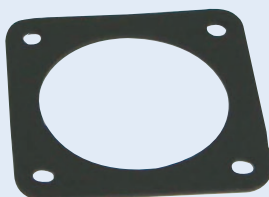
Receptacle Protection Cap



Cable Clamp



Telescoping Bushing



Sealing Gasket

Protection Caps

These metal dust caps are used to protect the plugs and receptacles.

They are furnished with sash chains and are available with bead chains.

MS3057 Cable Clamp

MS3057 style cable clamp was designed for use with jacketed cable or wire protected by tubing. Both clamping halves float maximum strain relief. For unjacketed cable or wires, Use corresponding MS3420 telescoping bushing.

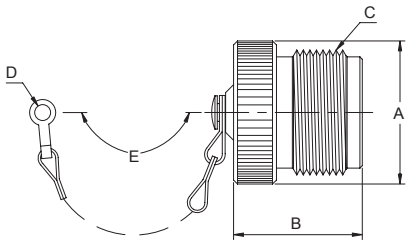
Telescoping bushings keep dirt, oil and moisture out of end bell.

Sealing Gasket

Sealing Gasket is being supplied separately

Amphenol MIL-C-5015 Connectors MS Series Accessories Dimension

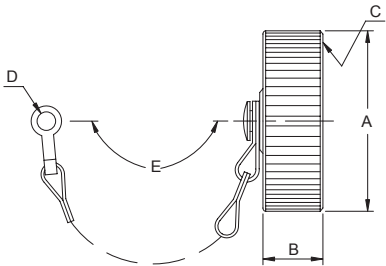
Plug Protection Cap MS25042



Part Number	Size	Ø A Max	Ø B Max	C Thread 2A	Ø D -0.3	E Approx
MS25042-10D	10S,10SL	18.5	17.2	5/8-24 NEF	4.2	102
MS25042-12D	12S,12	20.4	21.4	3/4-20 NEF	4.2	114
MS25042-14D	14S,14	23.6	21.4	7/8-20 NEF	4.2	114
MS25042-16D	16S,16	26.0	21.4	1-20 NEF	4.2	114
MS25042-18D	18	29.9	21.4	1/8-18 NEF	4.2	114
MS25042-20D	20	33.1	21.4	1/4-18 NEF	4.2*	127
MS25042-22D	22	36.2	21.4	3/8-18 NEF	4.2*	127
MS25042-24D	24	39.4	21.4	1/2-18 NEF	4.2*	140
MS25042-28D	28	45.7	21.4	3/4-18 NS	4.2*	197
MS25042-32D	32	52.0	21.4	2-18 NS	4.2**	197
MS25042-36D	36	59.0	21.4	1/4-16 UN	4.2**	197

These externally threaded metal dust caps are used to protect the MS3106 and MS3108 plugs.
Material is aluminum alloy. They are furnished with sash chains and are available with bead chains.
Optional termination holes are also available. (*5.0) (**5.8)

Receptacle Protection Cap MS25043

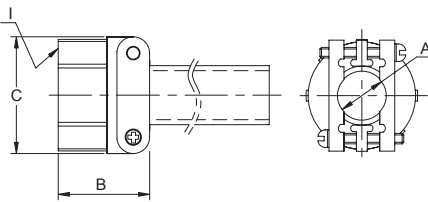


Part Number	Size	Ø A Max	Ø B Max	C Thread 2A	Ø D -0.3	E Approx
MS25043-10D	10S,10SL	20.2	15.8	5/8-24 NEF	4.2	102
MS25043-12D	12S,12	23.4	15.8	3/4-20 NEF	4.2	114
MS25043-14D	14S,14	27.9	15.8	7/8-20 NEF	4.2	114
MS25043-16D	16S,16	29.8	15.8	1-20 NEF	4.2	114
MS25043-18D	18	32.2	15.8	1 1/8-18 NEF	4.2	114
MS25043-20D	20	36.3	15.8	1 1/4-18 NEF	4.2	127
MS25043-22D	22	39.9	15.8	1 3/8-18 NEF	4.2	127
MS25043-24D	24	43.7	15.8	1 1/2-18 NEF	4.2*	140
MS25043-28D	28	50.0	15.8	1 3/4-18 NS	4.2*	197
MS25043-32D	32	56.5	15.8	?-18 NS	4.2**	197
MS25043-36D	36	61.5	15.8	2 1/4-16 UN	4.2**	197

These internally threaded metal dust caps are used to protect MS3100, MS3101 and MS3102 receptacles.
Metal is aluminum alloy. They are furnished with sash chains and are available with bead chains.
Optional termination holes are also available. (*4.58) (**5.00)

Amphenol MIL-C-5015 Connectors MS/DS Series Accessories Dimension

Cable Clamp MS3057

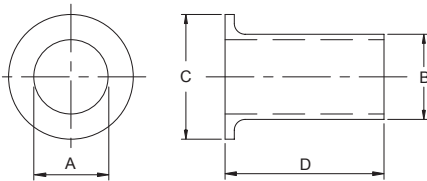


Part Number	Size	Ø A ±0.4	B ±0.8	Ø C ±0.8	I Thread-2B
MS3057-4A	10SL,12S	5.6	20.3	23.3	5/8-24 NEF
MS3057-6A	14S,14	7.9	22.5	25.9	3/4-20 NEF
MS3057-8A	16S,16	11.1	24.4	28.9	7/8-20 NEF
MS3057-10A	18	14.3	23.6	32.2	1-20 NEF
MS3057-12A	20,22	15.9	23.6	37.8	1 3/16-18 NEF
MS3057-16A	24,28	19.1	26.0	43.4	1 7/16-18 NEF
MS3057-20A	32	23.8	27.7	52.1	1 3/4-18 NS
MS3057-24A	36	31.8	29.2	57.3	2-18 NS

MS3057 style cable clamp was designed for use with jacketed cable or wire protected by tubing.

Both clamping halves float maximum strain relief. for unjacketed cable or wires, use corresponding MS3420 telescoping bushing. To order clamp without bushing, add-1 to the P/N.

Telescoping Bushing MS3420



Part Number	Size	Ø A Max	Ø B Max	Ø C	D
MS3420-4	10SL,12S	5.6	7.7	12.8	69.9
MS3420-6	14S,14	7.9	10.9	15.7	66.7
MS3420-8	16S,16	11.1	14.0	18.9	63.5
MS3420-10	18	14.3	15.6	22.6	60.3
MS3420-12	20,22	15.9	18.8	27.5	57.2
MS3420-16	24,28	19.1	23.6	33.4	54.0
MS3420-20	32	23.8	31.5	40.6	50.8
MS3420-24	36	31.8	34.7	46.9	47.6

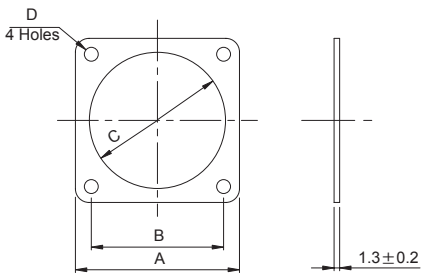
Telescoping grand bushings (used with 3057 clamp) keep dirt, oil and moisture out of endbell.

Taping or wrapping wires is eliminated since bushing protects wires going thru clamp.

Combinations of bushing may be used to decrease cable entry diameter to improve sealing.

Amphenol MIL-C-5015 Connectors MS-A,E/F,R & B Class Accessories Dimension

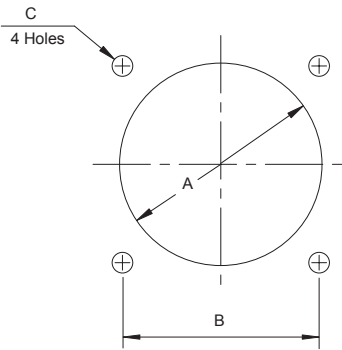
Sealing Gasket BMA 31



Part Number	Shell Size	□ A	□ B	∅ C	D +0.2
BMA31-10	10S,10SL	25.40	18.26	14.9	3.2
BMA31-12	12S,12	27.79	20.62	16.4	3.2
BMA31-14	14S,14	30.18	23.01	20.4	3.2
BMA31-16	16S,16	32.54	24.61	23.0	3.2
BMA31-18	18	34.94	26.97	25.9	3.2
BMA31-20	20	38.10	29.36	29.1	3.2
BMA31-22	22	41.28	31.75	32.0	3.2
BMA31-24	24	44.45	34.93	35.3	3.8
BMA31-28	28	50.80	39.67	41.5	3.8
BMA31-32	32	57.15	44.45	47.5	4.6
BMA31-36	36	63.50	49.23	54.7	4.6

The flat gasket of synthetic rubber material is provided to take complete advantage of waterproof and pressure sealing features. It is use with the flange mounted receptacle.

Panel Mounting Hole(Reference)



Shell Size	∅ A ±0.5	□ B ±0.12	C +0.2
10SL	17.5	18.26	3.2
12S	18.5	20.62	3.2
12	18.5	20.62	3.2
14S	22.0	23.01	3.2
14	22.0	23.01	3.2
16S	25.0	24.61	3.2
16	25.0	24.61	3.2
18	30.0	26.97	3.2
20	33.0	29.36	3.2
22	35.0	31.75	3.2
24	39.0	34.93	3.8
28	45.0	39.67	3.8
32	52.0	44.45	4.6
36	59.0	49.23	4.6

Amphenol MIL-C-5015 Connectors MS Basic Construction

Amphenol MIL-C-5015 connectors meet the latest performance requirements of MIL-C-5015.

These connectors represent well-proven electrical capability at an acceptable cost for most equipment where durability is important. MIL-C-5015 features threaded coupling & single key & keyway polarization representing maximum simplicity in design. Applications include industrial machines, military ground support equipment, ordnance & shipboard installation. Amphenol MIL-C-5015 connectors are available in classes A, B, E/F, R, and also offer a range of pre-earth connectors.

Therefore, you will always find the right connector in Amphenol, with us, for conditions & performance requirements you may have.

1. Characteristics

Insulation resistance.	5,000 Mega ohms minimum(at 25 °C)
Temperature range	-55°C to 125°C
Durability	500 Cycle connection/Disconnection

2. Dielectric with standing voltage

Service rating	Test voltage AC(rms)	Operating voltage	
		AC	DC
Inst	1,000	200	250
A	2,000	500	700
D	2,800	900	1,250
E	3,500	1,250	1,750
B	4,500	1,750	2,450
C	7,000	3,000	4,200

3. Contact engagement and separation forces

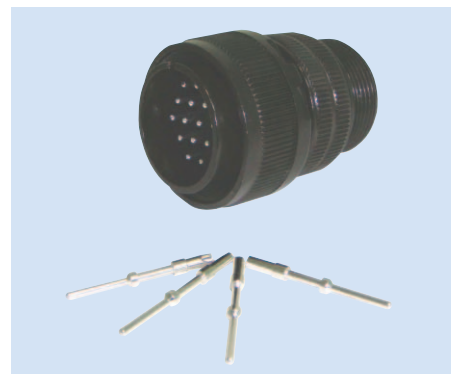
Contact mating end size	Minimum separation force(ounce)	Maximum average engagement force (ounce)	Maximum average engagement force (ounce)
#16	2	24	30
#12	3	24	30
#8	5	-	160
#4	10	-	240
#0	15	-	320

4. Electrical data

Contact size	Pin contact Diam,	Solder Pot Diam,	Rated Current (Mated with insulators)	Contact resistance	
				Test current DC A	Potential Drop(Max) mV
#16	1.6	1.9	13A	13A	49
#12	2.4	3.0	23A	23A	42
#8	3.6	5.4	46A	46A	26
#4	5.7	8.4	80A	80A	23
#0	9.1	12.2	150A	150A	21

5. Wire range accommodations

Size	A.W.G	Wire normal square size(mm ²)	Dielectric material outer diam.
#16	#22~#16	≤1.3	1.7~3.3
#12	#14~#12	≤3.5	2.9~4.3
#8	#10~#8	≤8.0	4.2~6.4
#4	#6~#4	≤22.0	7.0~9.4
#0	#2~#0	≤50.0	10.6~14.0



Amphenol MIL-C-5015 Connectors MS/DS Series How to order

MIL-C-5015 (Solder Contacts)

MS 3102 A 18 - 10 P W XXX
1 2 3 4 5 6 7 8

1. Connector Type
MS - designates Military Standard
DS - Amphenol MIL- C-5015 Europe use
2. Connector Style
3100- wall mounting receptacle
3101- cable connecting plug
3102- box mounting receptacle
3106- straight plug
3108- 90° Right angle plug
3. Service Class
A - General purpose, Solid Endbell
E - Environmental resisting, with grommet seal & strain relief back shell
F - Environmental resisting with grommet seal & strain relief back shell
3106F and 3108E style include a front 'O' ring seal
R - Environmental resisting with grommet seal, light weight and shorter
Overall length 310R style include a front 'O' ring seal
- 4, 5. Shell size and insert arrangement - see tables, page 26.27
6. Contact Types
P- designates pin contact, (+) Male
S- designates socket contact, (-) Female
7. Insert Rotation
No suffix-Normal
"W", "X", "Y", or "Z" - See page 26.27
8. Plating information
No suffix - Olive Drab Zinc
CD - Cadmium
C1 - Cobalt (Without +6 Cr)
621 - Black Zinc
689 - Electro-less Nickel
426 - Electro-less Nickel & gold flash contacts

MIL-C-5015 (Crimp Contacts)

MS 4102 A 18 - 10 P W XXX
1 2 3 4 5 6 7 8

1. Connector Type
MS - designates Military Standard
2. Connector Style
4100 - wall mounting receptacle
4101 - cable connecting plug
4102 - box mounting receptacle
4106 - straight plug
4108 - 90° Right angle plug
3. Service Class
A - General purpose, Solid Endbell
E - Environmental resisting, with grommet seal & strain relief back shell
F - Environmental resisting with grommet seal & strain relief back shell
3106F and 3108E style include a front 'O' ring seal
R - Environmental resisting with grommet seal, light weight and shorter
Overall length 310R style include a front 'O' ring seal
- 4, 5. Shell size and insert arrangement - see tables, page 26.27
6. Contact Types
P- designates pin contact, (+) Male
S- designates socket contact, (-) Female
7. Insert Rotation
No suffix - Normal
"W", "X", "Y", or "Z" - See page 26.27
8. Plating information
No suffix - Olive Drab Zinc
CD - Cadmium
C1 - Cobalt (Without +6 Cr)
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