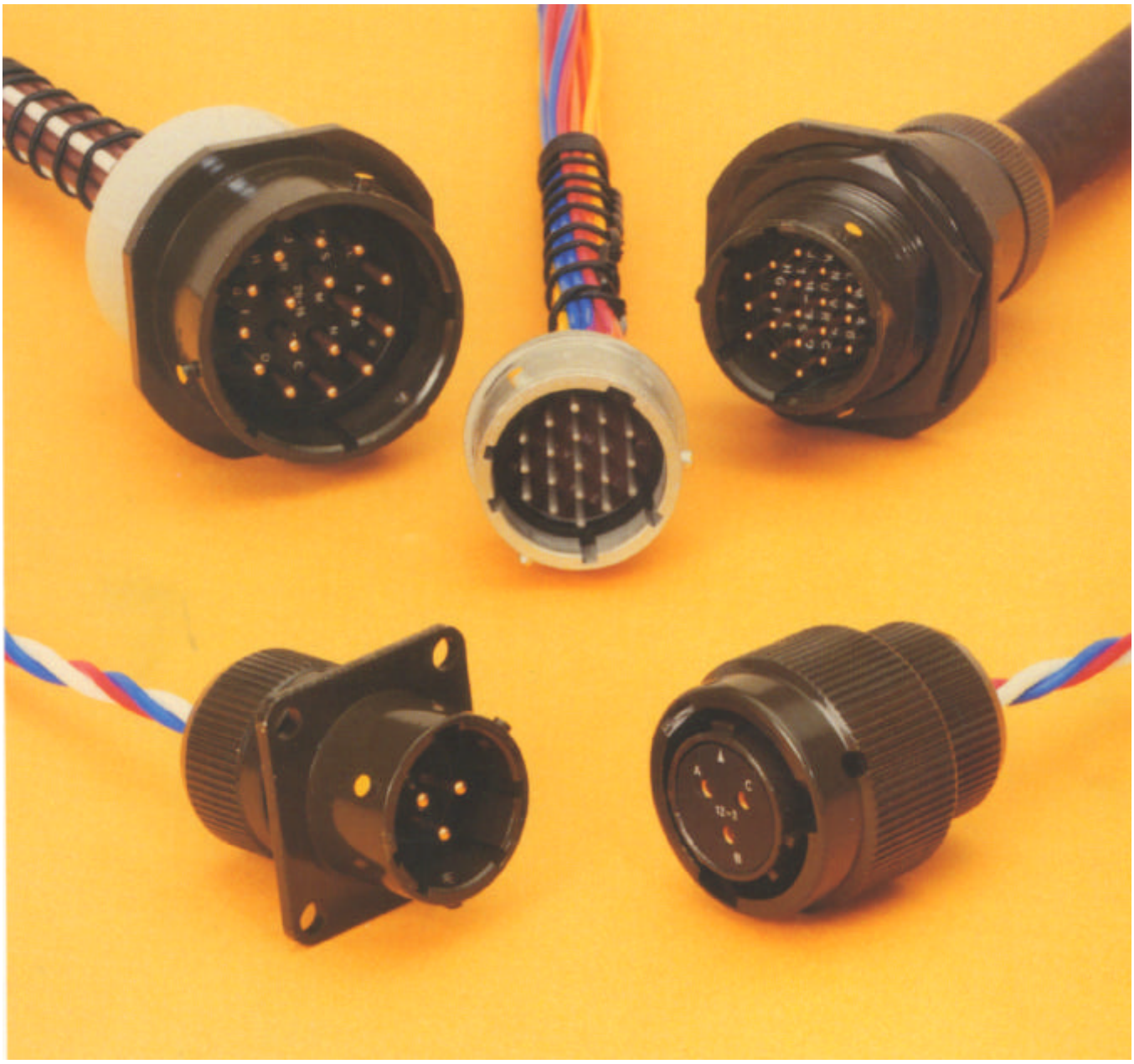
62 GB- Series Plugs

CE-2Pa

Miniature Bayonet Lock Connectors
Complies with MIL-C-26482



This miniature bayonet lock connector series offers designers important features not found in any other range of connectors.

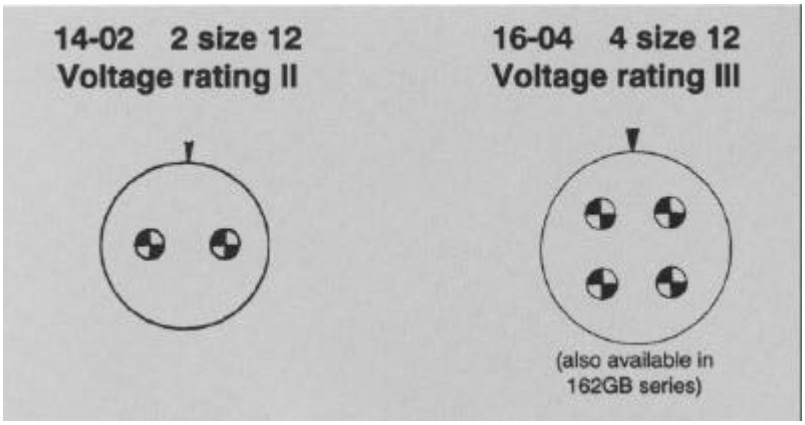
They are developed and manufactured entirely in the U.K. by AMPHENOL Ltd., and have full qualification approval to British Standards Specification BS 9522 F0017 and British Defence Specification DEF STAN 59-35 (Part 3) Sec. 7.

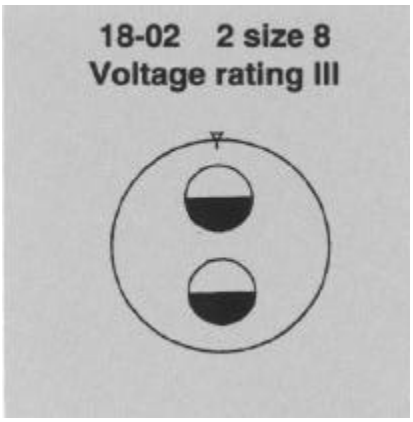
This catalogue to be used in conjunction with Catalogues:
CE-2Ra – 62GB Series Receptacles
CE-2Aa – 62GB Series Accessories

Amphenol

62GB and Pattern 608

New Planforms





Current:

(a) Maximum current per individual contact (in isolation)* at ambient temperature of 85°C

Contact size 12: 23 A

(b) Maximum current per contact through all contacts simultaneously at an ambient temperature of 85°C

Contact size 12: 20 A

Current:

(a) Maximum current per individual contact (in isolation)* at ambient temperature of 85°C

Contact size 8: 45 A

(b) Maximum current per contact through all contacts simultaneously at an ambient temperature of 85°C

Contact size 8: 40 A

	Sea level 1013 mbar á			8500m (27,900ft) 320 mbar			21,340m (70,OOOft) 44 mbar		
Voltage rating	I	II	III	I	II	III	I	II	III
Working voltages ** (nominal)	700	1200	1500	550	650	800	330	380	450
d.c. or a.c. peak Voltage proof d.c. or a.c. peak	2100	3000	3000	1100	1300	1300	660	760	750

* i.e. when only one contact per connector is electrically loaded.

á 1 mbar=10^2 N/m^2=100 Pa

** Establishment of electrical safety factors is the responsibility of the user

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Amphenol ® 62GB solder connectors

This catalogue to be used in conjunction with Catalogues:
CE-2Ra – 62GB Series Receptacles
CE-2Aa – 62GB Series Accessories

This miniature bayonet lock connector series offers designers important features not found in any other range of connectors. The range has full qualification approval to British Standards Specification BS 9522 FOO 17 and British Defence Specification DEF STAN 59-35 (Part 3) Sec. 7.

62GB Series connectors - developed and manufactured entirely in the United Kingdom by Amphenol Limited. They are the first and only British connectors to have achieved this. A doubly strong position which Amphenol are well geared to handle. The manufacturing facilities of the Whitstable plant have been cited as exemplary in Europe. Certainly the layout is extensive and extremely efficient; safety awards have been attained every time returns have been submitted to the British Safety Council.

62GB Series connectors have been well established with Government authorities on an international scale and users can be found in Sweden, Denmark, Norway, Finland, Germany, Spain, Holland, India, Canada and Italy.

Derating

Connectors must be derated under the following operating conditions:

1. At elevated ambient temperatures, the current ratings are reduced so that total maximum hot spot temperature of 125°C is not exceeded.

2. At high altitudes, revised voltage ratings become effective as shown on page 7.

3. When connectors to different specifications are intermated (e.g. BS 9522 FOO 17 and MIL-C26482), the combination must not be operated under conditions more severe than the less stringent clause of either specification.

   Amphenol 62GB connectors are designed to meet the most stringent requirements of both specifications.

Military Specifications

British Standards Specification BS 9522 FOO 17 closely corresponds to the United States Military Specification MIL-C-26482 solder terminations. Certain differences exist between the schedules which can be seen on pages 2 and 3.

Approved gauges are used to check interchangeability of 62GB series with other connectors manufactured to BS 9522 FOO 17 or MIL-C-26482.

Basic Construction

Connector shells are machined from solid aluminium bar stock - not forged or extruded as in competitive designs. Machining has inherent advantages in terms of strength and adaptability. 62GB Series can be supplied in brass or stainless steel, for instance.

The normal shell finish used, which has a high resistance to corrosion, is zinc cobalt olive drab. Other finishes may be supplied to special order, such as cadmium plate which is available by adding deviation (714) to the end of part number.

Inserts are of polychloroprene rubber compounded to an Amphenol specification. Operating temperature range is -55°C to 125°C, and the connectors have gold-plated contacts designed for soldered connections. Configurations for size 20 contacts range between 2 contacts in the size 8 12.7mm (0.5in diameter) shell up to a maximum of 61 contacts in the size 2436.1 mm (1.5in diameter) shell. Intermediate sizes, and contact data for heavier current ratings are shown in the insert availability chart on page 6 and 7.

Hermetic connectors with glass sealed dialectric are manufactured with mild steel shells and nickel iron contacts plated tin over copper.

* Other finishes are available on request.

Protection Against Mis-Mating or Cross-Plugging

In BS 9522 FOO 17 positive shell-to-shell keying is provided with keys and keyways in a choice of either the normal (N) or any of the four preferred alternate positions: B, C, E and F. This prevents mismating between shells of different orientations and overcomes the difficulties associated with rotated inserts and a standard key-keyway orientation. In the latter system, damage to the inserts or contacts can result if excessive force is used to engage non-mating pairs.

Rotated inserts are, however, permissible in BS 9522 FOO 17 connectors if required to mate with or replace units to MIL-C-26482 mounted in existing equipment. Connectors have normal orientations manufactured to BS 9522 FOO 17 or MIL-C-26482 are fully intermateable as also are connectors with inserts in positions W, X, Y or Z.

Schedule of Tests
Required for Qualification Approval

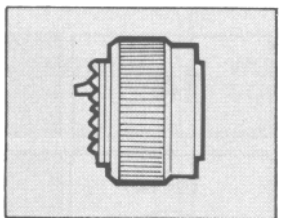
Tests	Brief Description
Visual Examination	
Dimensions, outline mass(including contacts) Compatability Gauging procedure	
Polarization	
Engaging and separating force, connector	Engagement max: 0,90 Nm (8.0 lbf.in.) to 4,97 Nm (44 lbf.in.) according to shell size. Separation min: 0,22 Nm (2.0 lbf.in.) to 1,58 Nm (14.0 lbf.in.) according to shell size.
Contact Holding Force	0,21 N (0.047 lbf) min.size 20 0,56 N (0.126 lbf)min. size 16
Sealing (air pressure)	Max leakage 28,53 uNm/s (1 cm3/h), 1 bar (14.5 p.s.i.) differential.
Sealing Hermetic	Hermetic receptacles have a max leak of 0.1 micron cubic foot per hour (1 x 10-6Cm3/s)
Contact Resistance	5 milliohms max.
Housing (Shell) Continuity	200 milliohms max. 5 milliohms max. grounding spring styles.
Insulation Resistance	5,000 Megaohms at 500 - 50 V d.c.
Voltage Proof	See page 7. Duration 1 minute
Soldering	As BS 9520: 1974, Clause 1.2.6.6, Method 2.
Bumping	As BS 9520: 1974, Clause 1.2.6.1. 4,000 -10 bumps / 390m / s2 (40 gn).
Vibration	As BS 9520: 1974, Clause 1.2.6.2.1. Procedure A. 10 Hz to 5000 Hz, 0.75 mm / 10 gn.
Shock	As BS 9520: 1974, Clause 1.2.6.3. 981 m/s2 (100 g n).
Acceleration (Steady State)	As BS 9520: 1974, Clause 1.2.6.4. 490 m/s2 (50 gn).
Rapid Change of Temperature	As BS 9520: 1974, Clause 1.2.6.7. -550 C to - 1250 C.
Climatic Sequence	As BS 9520: 1974, Clause 1.2.6.11. Severity 55/125/56.
Flammability	As BS 9520: 1974, Clause 1.2.6.8. Direct flame applied, duration 1 minute.
Damp Heat (Steady State)	As BS 9520: 1974, Clause 1.2.6.14. Severity 56 days.

Schedule of Tests
Required for Qualification Approval

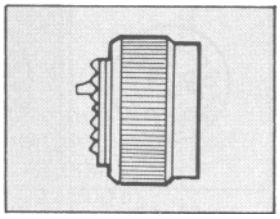
Tests	Brief Description
Immersion (at low air pressure)	3 cycles at 30 mins each cycle, total immersion in water at pressure 44 m bar.
Mechanical Endurance	500 operations minimum
High Temperature Endurance	Long term: 1,000 hrs. at 850 C ambient carrying the specified current. Short term: 250 hrs at 1250 C, no current.
Mould Growth	As BS 9520: 1974, Clause 1.2.6.15. 28 days duration.
Salt Mist	As BS 9520: 1974, Clause 1.2.6.16. Severity 1.
Dust	As BS 9520: 1974, Clause 1.2.6.17 Exposure 30 minutes.
Robustness of Terminations	44,5 N (101bf) size 16 22,2 N (5 lbf) size 20
Contact Retention (in insert)	67,0 N (15 lbf) min. size 20 112,0 N (25 lbf) min. size 16
Insert Retention (in shell)	517 KN1m2 (751bf/in2) min.
Test Prod Damage	Moment: 0,056 Nm (0.5 lbf in) size 20 0,225 Nm (2 lbf in) size 16
Impact	Five impacts, drop height 1 m (3ft.3 in.).
Grounding Spring Holding Force Plugs with grounding springs only.	1,17 N (0.263 lbf) to 2,74 N (0.616 lbf) according to size.
Fluid Resistance	Immersion in 4 solvents and 9 fluids including aircraft fuels, lubricating oils and hydraulic fluids.
Compass Safe Distance	As BS 9520: 1974, Clause 1.2.5.11. 127 mm (5.0 in) min.

Connector Styles Available

Plugs

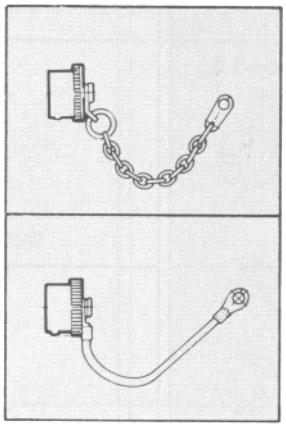


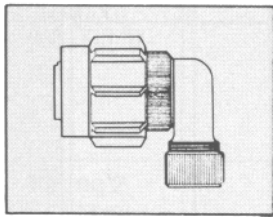
Straight Plug
See Pages 14-17



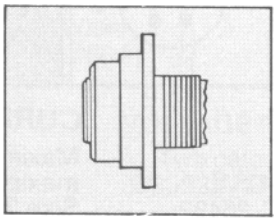
Grounded Plug
See Page 14

Accessories
See Catalogue CE-2Aa



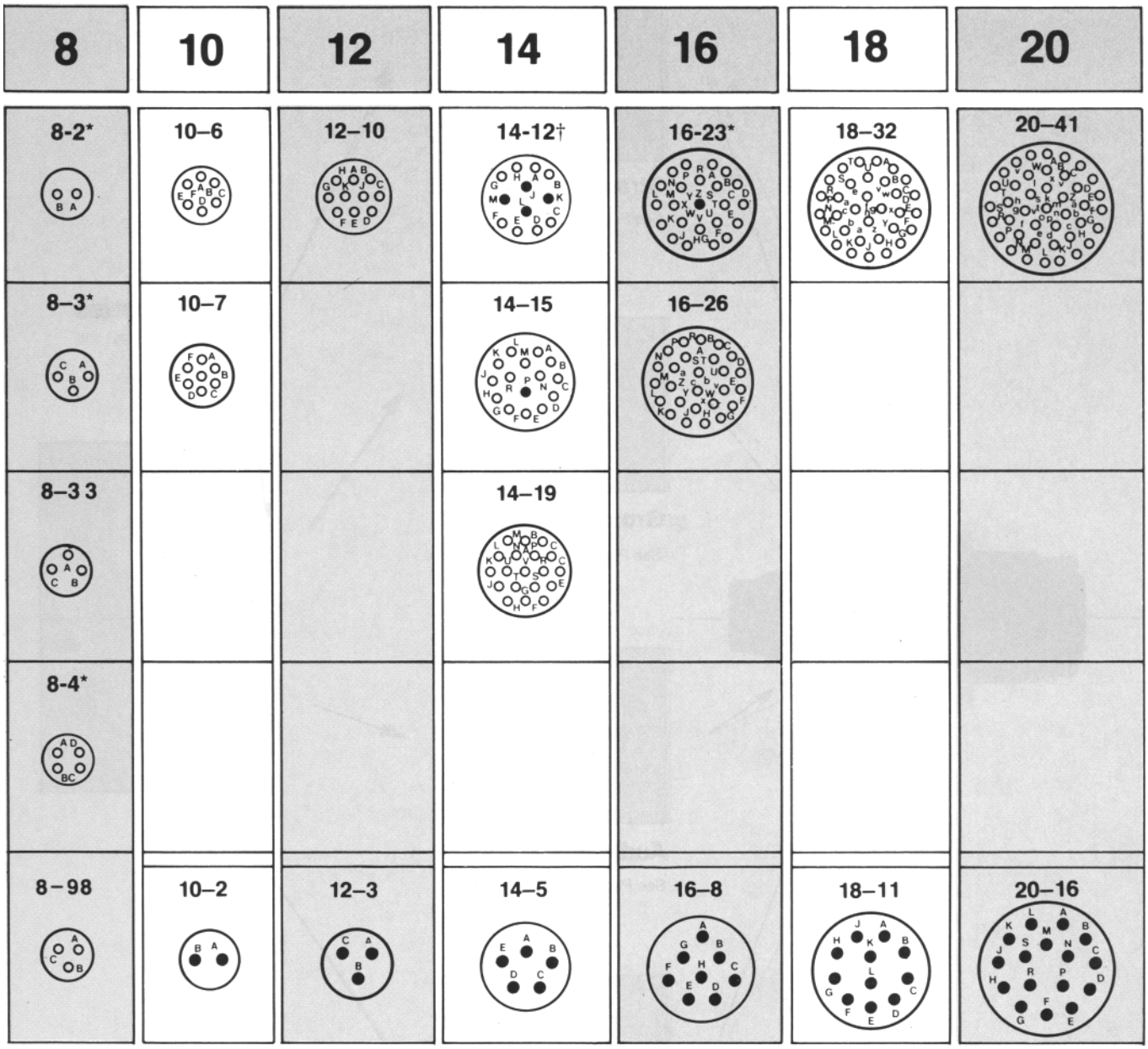


Audio Plug
See Page 18



Push on - Pull off
See Page 19

Insert Availability



NOTES

* This insert arrangement is not included in B.S. spec., but is available and. listed in MIL-C-26482.

á Due to the arrangement of contacts in the 14-12 insert arrangement it is classified, for current derating, in the shell size range 18-24.

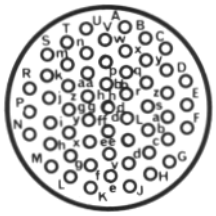
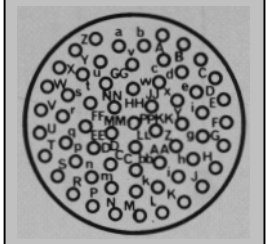
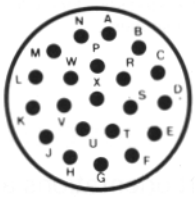
Lettering of inserts shown above corresponds to view of front (mating surface of pin inserts or rear face (cable accessory end) of socket inserts.

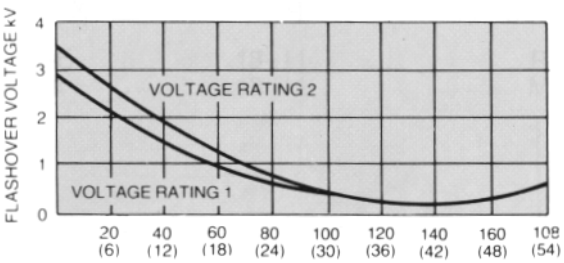
KEY ● No 16 size contacts
O No 20 size contacts

CURRENT RATING

Maximum current per individual contact (in isolation) at a maximum ambient temperature of 85°C: Size 20 contact 7.5A Size 16 contact 13-OA The performance of 62GB Series connectors at all times exceeds the maximum continuous bunched rating of the appropriate size wire, or cable of equivalent temperature rating. This bunched rating is therefore the determining factor. In the case of mixed loadings, the greatest individual load shall be the bunched loading. In any combination of ambient temperature plus temperature rise due to current flow through the contacts, the maximum connector internal hot spot temperature of 125°C must not be exceeded. That is, when only one contact per connector is loaded.

Insert Availability

		VOLTAGE RATINGS			
22	**24**	**ALTITUDE**	**D.C. WORKING VOLTAGE**	**A.C. WORKING VOLTAGE R.M.S.**	**PROOF VOLTAGE D.C. OR A.C. PEAK**
22-55 	**24-61** 	**Rating 1** Sea level	700	500	2100
		300 mb at 20°C 8,500m (27,800 ft)	550	390	1100
		44 mb at 20°C 20,000m (66,000 ft)	330	230	660
22-21  † Available to special order only		**Rating 2** Sea level	120	850	3000
		300 mb at 20°C 8,500m (27,800 ft)	650	460	1300
		44 mb at 20"C 20,000m (66,000 ft)	380	270	760



ALTITUDE-THOUSANDS OF FEET (METRES)
Relationship between flashover voltage and altitude for each voltage rating

VOLTAGE RATINGS

Two categories of voltage rating are specified in BS9522 F0017, F0038 and N0001.

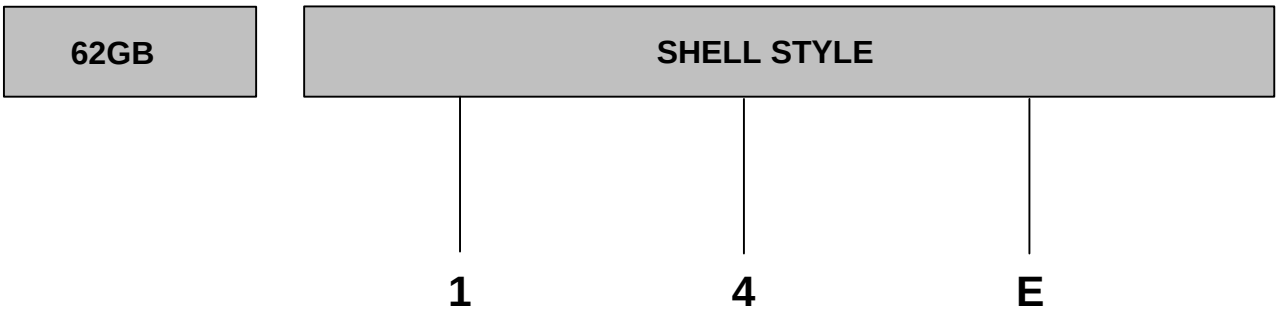
Rating 1 (700V d.c. working at sea-level) Applicable to the high contact density inserts shown in the upper section of the insert availability diagram above.

Rating 2 (1200V d.c. working at sea-level) Applicable to the inserts shown in the lower section of the insert availability diagram.

Altitude derating. Information on voltage derating for operation at altitudes above sea-level can be obtained from the flashover voltage altitude curves on the left.

Ordering 62GB Series Connectors

To obtain the specific connector required write down the connector number from the typical example below. Only inserts shown in the availability chart on p. 10&11 can be specified. All connectors are delivered with protective dust covers



Series designation
62 GB - Aluminium shell
62 GB SS -Stainless steel shell*
62 GB CU - Brass shell*
*consult factory for availability
62GB-XXH-Hermetic mild steel shell.

Specification key
1 - Styles originally specified in MIL-C-26482
5 - Styles exclusive to BS9522 F0017

Shell style
0 - Receptacle wall mounting
1 - Receptacle cable mounting
2 - Receptacle box mounting
3 - Receptacle, solder flange mounting
4 - Receptacle, internally threaded with cable accessories as illustrated, for single hole mounting
6 - Plug cable mounting
7- Receptacle, plain shell, single hole mounting

Environmental code
A - Plain shell, exposed solder buckets. No grommet
E - Insert seal and grommet seal with grommet nut (excluding 12E which has plain shell and no grommet or nut)
F - As (E) but grommet nut has integral strain relief clamp
H - Hermetic seal no cable accessories
J - As (E) but with resilient gland seal and nut for unscreened jacketed cable. No grommet supplied. See pp. 26-27 for accessory to accept screened jacketed cable.
P - Potting construction complete with potting mould
T - Exposed solder buckets. Threaded shell for cable accessories

HOW TO ORDER FROM MS CONNECTOR NUMBERS

Connector numbers in the AMPHENOL and MS numbering systems. Only alternative insert orientations are specified in MIL-C-26482 which does not include alternative key/keyway orientations.

MS31	-	14	E	18 -11	P	X
62GB	-	14	E	18 -11	P	X

Ordering 62GB Series Connectors

INSERT ARRANGEMENT

18	11	P	B	(044)

Shell size (in sixteenths of an inch) 8, 10, 12, 14, 16 18,20,22,24

Number of contacts
2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 16, 19, 21', 23, 26, 32, 41, 55, 61
* consult factory for availability

Contact Style
P - Pins
S - Sockets For hermetic connectors. P3 denotes pin contacts with solder bucket terminations. (Standard range). P2 denotes pin contacts with flattened and pierced terminations.
(Special order).

Orientation
(Omit if normal orientation)
Keys/Keyways: A', B, C, D', E. F, (see p. 31)
Inserts: W,X,Y,Z.(see p56/57)
*Inactive for new designs

Deviations
(044) Rough grip heavy duty coupling ring.
(046) Box mounting plug.
(214)Fitted with extension back shell and strain relief clamp without grommet on F types only
(218) Lever coupling ring
(219)Contacts for flexible punted wrung (57A and 12E only)
(639) Bright cadmium plated shells
(345) Contacts for flexible punted wiring 12H,13H 17H only
(276) Hermetics with gold plated contacts.
(608) Black anodise.
(416) Electroless nickel
(714) Cadmium plate olive drab

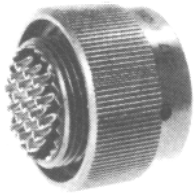
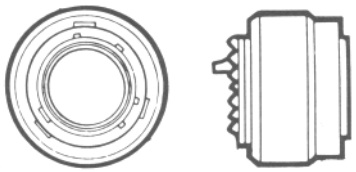
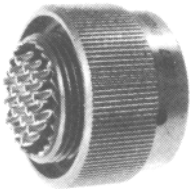
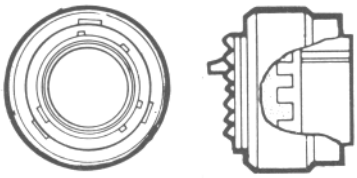
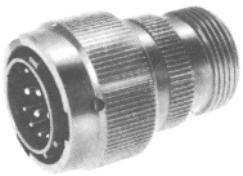
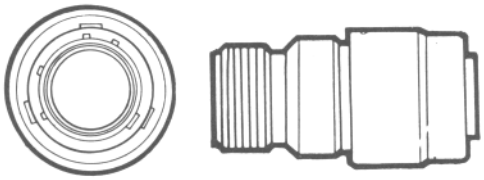
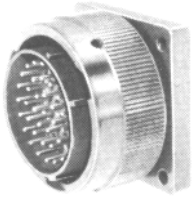
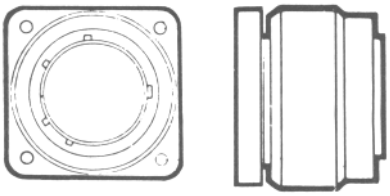
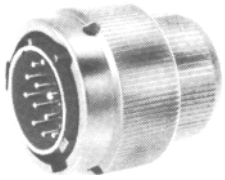
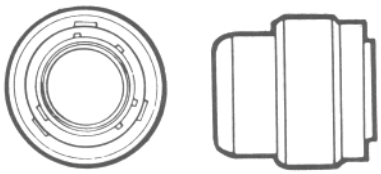
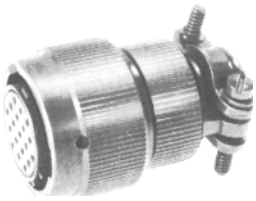
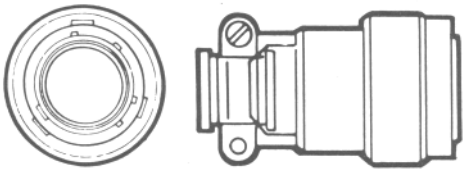
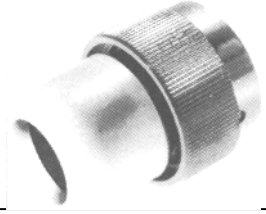
HOW TO ORDER FROM B.S. CONNECTOR NUMBERS

Select the connector style by reference to BS9522 F0017 using the code below for identification. Note that the B.S. Specification includes only certain connectors from the table of styles as shown on pp. 8 & 9. Alternative key/keyway orientations are preferred in the BS9522 F0017 Specification to prevent mis-mating. However, rotated inserts are permissible where connectors are required to mate with or replace items to MIL-C-26482 on existing equipment.

62GB - 14E C2098	18-11 18 11	P M	B B	O
Style	Insert Arrangement, see above	M - Pin contacts F - Socket contacts	Alternative Key/Key way Orientation	Variant. 0 – Standard connector

Plugs
Table of Styles

Page No.

62GB-56T			14
62GB-56TG			14
62GB-16A			15
62GB-56T (046)			15
62GB-16E			16
62GB-16F			16
62GB-16P			17

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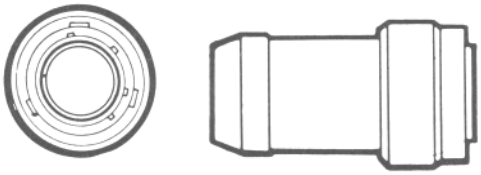
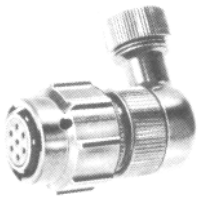
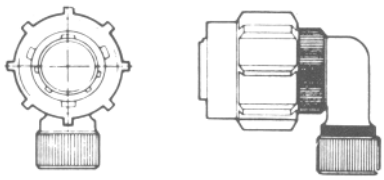
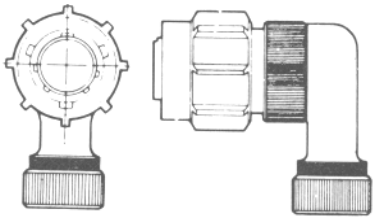
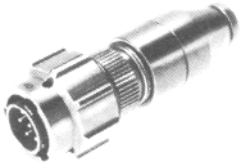
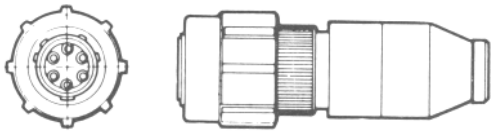
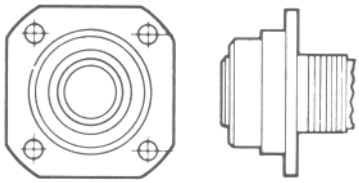
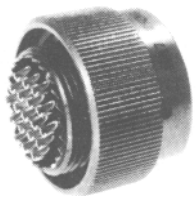
62GB-16J			17
62GB-5039-10			18
62GB-5055-10			18
62GB-5056-10			18
62GB-5074			19

Plugs

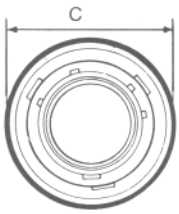
56T

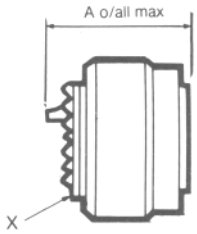


62GB-56T

BS9522 F0017 C2092

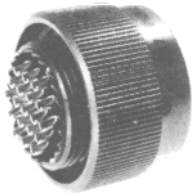
Basic plug with threaded shell to accept standard cable accessories





Shell Size	A Max	C max	X Thread
08	0.976 24.79	0.750 19.05	7/16 - 28 UNEF
10	0.976 24.79	0.859 21.82	9/16 - 24 NEF
12	0.976 24.79	1.031 26.19	11/16 -24NEF
14	0.976 24.79	1.156 29.36	13/16 - 20 UNEF
16	0.976 24.79	1.281 32.54	15/16 - 20 UNEF
18	0.976 24.79	1.391 35.33	1.1 /16 - 18 NEF
20	&976 24.79	1.531 38.89	1.3/16 - 18 NEF
22	0.976 24.79	1.656 42.06	1.5/16 - 18 NEF
24	0.976 24.79	1.777 45.14	1.7/16 - 18 NEF

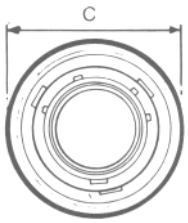
56TG

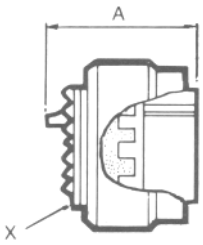


62GB-56TG

BS9522 F001 7 C2093

Basic plug with threaded shell to accept standard cable accessories. Has shell grounding spring fingers





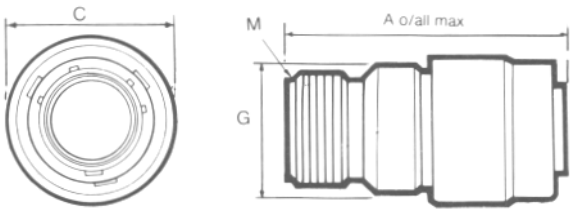
Shell Size	A max	C max	X Thread
08	0.976 24.79	0.750 19.05	7/16 - 28 UNEF
10	0.976 24.79	0.859 21.82	9/16 - 24 NEF
12	0.976 24,79	1.031 26.19	11/16 – 24 NEF
14	0.976 24.79	1.156 29.36	13/16 – 20 UNEF
16	0.976 24.79	1.281 32.54	15/16 - 20 UNEF
18	0.976 24.79	1.391 35.33	1.1 /16 - 18 NEF
20	0.976 24.79	1.531 38.89	1.3/16 - 18 NEF
22	0.976 24.79	1.656 42.06	1.5/16 - 18 NEF
24	0.976 24.79	1.777 45.14	11/16 - 18 NEF

Plugs

16A

62GB-1 6A

Plug with general duty back shell.
No grommet provided.

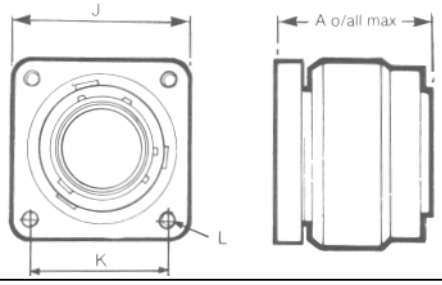


Shell Size	A max	C max	G max	M Thread
08	1.614 41.00	0.750 19.05	0.561 14.25	1/2 - 28 UNEF
10	1.614 41.00	O.859 21.82	0,686 17.43	5/8 - 24 NEF
12	1.614 41.00	1.031 26.19	0.811 20.60	3/4 - 20 UNEF
14	1.614 41.00	1,156 29.36	0.936 23.78	7/8 - 20 UNEF
16	1.614 41.00	1.281 32.54	1.061 26.95	1 - 20 UNEF
18	1.614 41.00	1.391 35.33	1.186 30.13	1.3/16 -18 NEF
20	1.614 41.00	1.531 38-89	1.311 33.30	1.3/16 - 18 NEF
22	1.614 41.00	1.656 42.06	1.436 36.75	1.7/16 - 18 NEF
24	1.658 42.11	1.777 45.14	1.561 39.65	1.7116 - 18 NEF

56T

62GB-56T(046)

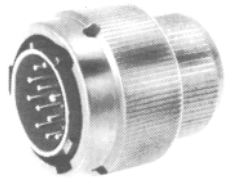
Box-mounting plug. Available for shell size 16: other sizes to special order. Cable accessories cannot be fitted.



Shell Size	A max	J max	K	L
16	1.042 26.47	1.317 33.45	1,000 25.40	6.32 NC
20	1.042 26.47	1.625 41.28	1.250 31.75	6.32 NC
22	1.042 26.47	1.625 41.28	1.250 31.75	6.32 NC

Plugs

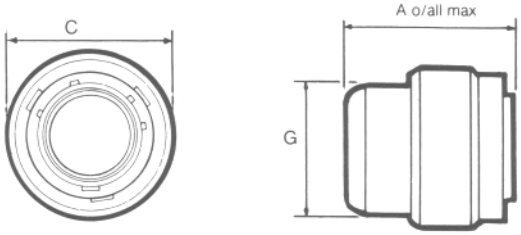
16E



62GB-16E

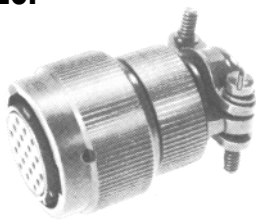
MIL - C26482 MS3116E

Plug with grommet and grommet nut



Shell Size	A max	C max	G max
08	1.281	0.750	0.561
	32.54	1.05	14.25
10	1.281	0.859	0.686
	32.54	21.82	17.431
12	1.281	1.031	0.811
	32.54	26.19	20.60
14	1.281	1.156	0.936 I
	32.54	29.36	23.78
16	1.281	1.281	1.061
	32.54	32.54	26.95
18	1.281	1.391	1.186
	32.54	35.33	30.13
20	1.281	1.531	1 .311
	32.54	38.89	33.30
22	1.281	1.656	1.436
	32.54	42.06	36.75
24	1.281	1.777	1.561
	32.54	45.14	39.65

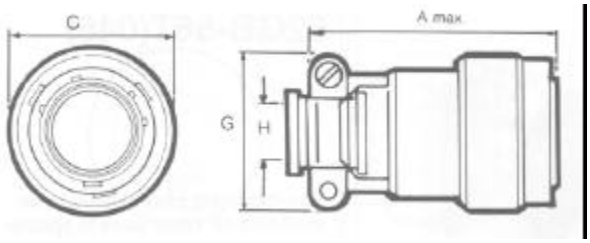
16F



62GB-16F

MIL - C26482 MS3116F

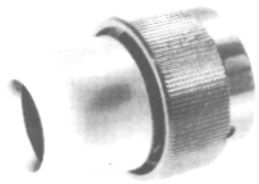
Plug with grommet and grommet nut fitted with integral strain relief clamp.



Shell Size	A max	C dia max	G dia max	H ± 0.005 (± 0.13)
08	1.752	0.750	0.828	0.156
	44.50	19.05	21.03	3.96
10	1.752	0.859	0.891	0.188
	44.50	21.82	22.63	4.78
12	1.752	1.031	1.016	0.312
	44.50	26.19	25.81	7.93
14	1.726	1.156	1.141	0.375
	43.84	29.36	28.97	9.53
16	1.866	1.281	1.203	0.500
	47.40	32.54	30.56	12.70
18	1.866	1.391	1.426	0.625
	47.40	35.33	36.22	15.88
20	2.040	1.531	1.426	0.625
	51 .81	38.89	36.22	15.88
22	2.040	1.656	1.567	0.750
	51.81	42.06	39.80	19.05
24	2.178	1.777	1.735	0.800
	55.32	45.14	44.07	20.32

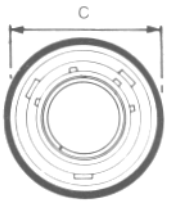
Plugs

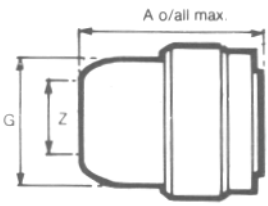
16P



62GB-16P

MIL-C26482 MS3116P

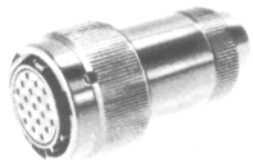




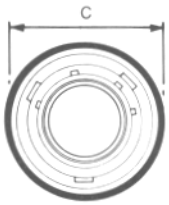
For potted seal. Supplied complete with detachable potting mould and location ring.

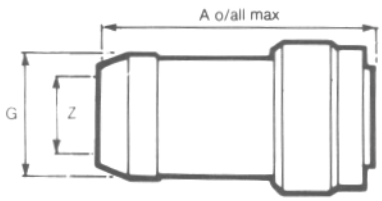
Shell Size	A max	C max	G max	Z min
08	1.306	0.750	0.572	0.260
	33.17	19.05	14.53	6.60
10	1.415	0.859	0.666	0.463
	35.94	21.82	16.92	11.76
12	1.384	1.031	0.822	0.557
	35.15	26.19	20.88	14.14
14	1.384	1.156	0.907	0.590
	35.15	29.36	23.04	14.99
16	1.384	1.281	1.040	0.713
	35.15	32.54	26.41	18.11
18	1.384	1.391	1.165	0.835
	35.15	35.33	29.59	22.21
20	1.539	1.531	1.285	1.015
	39.09	38.89	32.64	25.78
22	1.539	1.656	1.400	1.015
	39.09	42.06	35.56	25.78
24	1.602	1.777	1.540	1265
	40.69	45.14	39.12	32.13

16J



62GB - 16J





Plug with cable clamp for unscreened jacketed cable. No grommet supplied.

Shell Size	A max	C max	G max	Z min	Z max
08	1.836	0.750	0.561	0.168	0.230
	46.64	19.05	14.25	4.28	5.84
10	1.836	0.859	0.686	0.205	0.312
	46.64	21.82	17.43	5.21	7.93
12	1.937	1.031	0.811	0.388	0.442
	49.20	26.19	20.60	8.59	11.23
14	2.137	1.156	0.936	0.416	0.539
	54.28	29.36	23.78	10.57	13.69
16	2.337	1.281	1.061	0.550	0.616
	59.36	32.54	26.95	13.97	15.65
18	2.537	1.391	1.186	0.600	0.672
	64.45	35.33	30.13	15.24	17.07
20	2.758	1.531	1.311	0.635	0.747
	70.05	38.89	33.30	16.13	18.98
22	2.958	1.656	1.436	0.670	0.846
	75.13	42.06	36.75	17.02	21.49
24	3.002	1.777	1.561	0.740	0.894
	76.25	45.14	39.65	18.80	22.71

Plugs

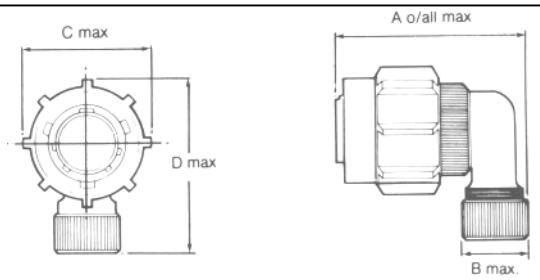
5039

62GB-5039-10

SD/C 235 155 - X

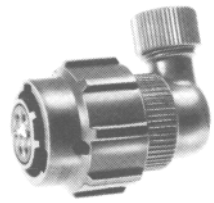
SD/C 235 156 - X

Low profile, solder termination plug with 90° screened cable outlet.



Shell Size	A max	B max	C max	D max
10	1.473 37.41	0.500 12.70	0.980 24.89	1.500 38.10

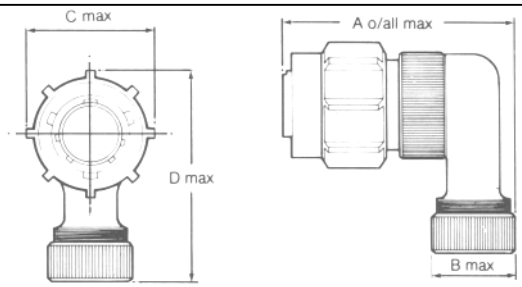
5055



62GB-5055-10

SD/2 235 193 - X

Low profile solder termination plug with size 12 90°screened cable outlet.

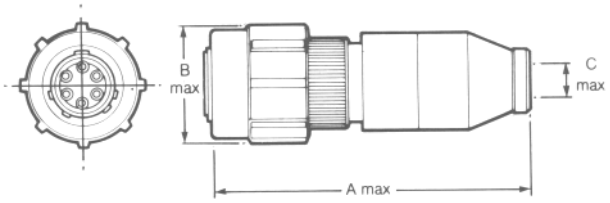


Shell Size	A max	B max	C max	D max
10	1.800 45.72	0.655 16.64	0.980 24.89	1.800 45.72

5056

62GB-5056-10

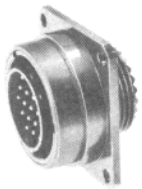
Audio plug with solder termination



Shell Size	A max	B max	C max
10	2.375 60.33	0.979 / 0.969 24.87 / 24.61	0.310 7.87

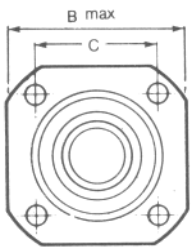
Plugs

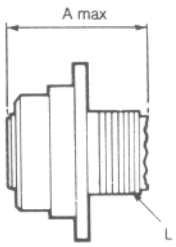
5074



62GB-5074

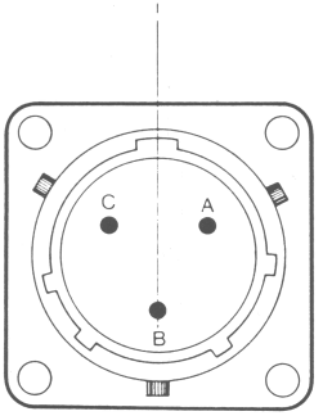
Flange mounting push/pull plug with threaded shell to accept standard cable accessories.



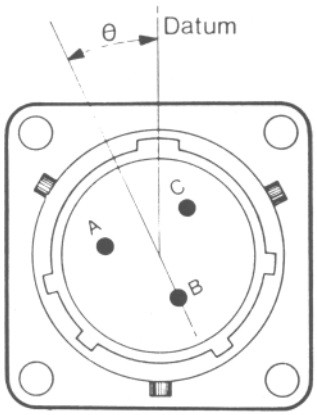


Shell Size	A max	B max	C	L
10	0.912	1.125	0.866	9/16 - 24 NEF
	23.17	28.57	22.00	
12	0.912	1.218	0.969	9/16 - 24 NEF
	23.17	30.93	24.61	
14	0.912	1.312	1.062	9/16 - 24 NEF
	23.17	33.32	26.97	

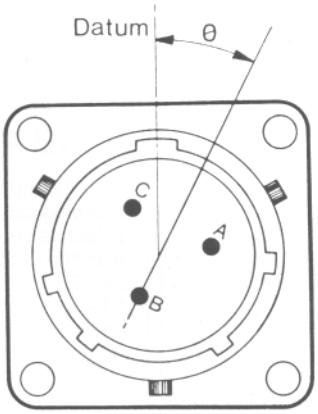
Insert Orientations
For M I L-C-26482 and for replacement purposes in BS9522 FOO 17



Normal position
with pin contacts



Alternative position of insert
with socket contacts
(∅ counterclockwise)



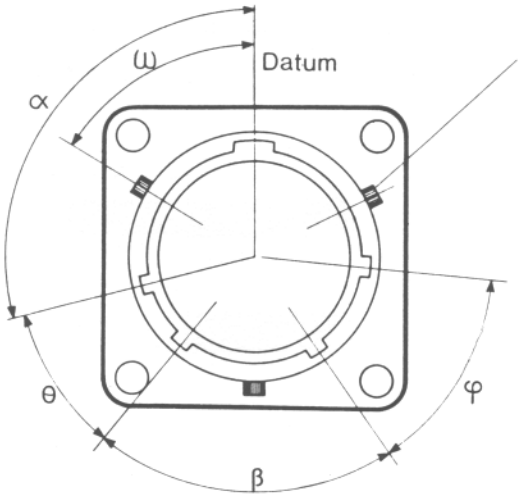
Alternate position of insert
with pin contacts
(∅ clockwise)

Each diagram shows mating face of insert.

Insert Arrangement	Normal	Orientation ∅ (degrees)			Z
		W	X	Y	
8-2	0	58	122	-	-
8-3	0	60	210	-	-
8-33	0	90	-	-	-
8-4	0	45	-	-	-
8-98	0	-	-	-	-
10-2	0	-	-	-	-
10-6	0	90	-	-	-
10-7	0	-	-	-	-
12-3	0	-	-	180	-
12-10	0	60	155	270	295
14-5	0	40	92	184	273
14-12	0	43	90	-	-
14-15	0	17	110	155	234
14-19	0	30	165	315	-
16-18	0	54	152	180	331
16-23	0	158	270	-	-
16-26	0	60	-	275	338
18-11	0	62	119	241	340
18-32	0	85	138	222	265
20-16	0	238	318	333	347
20-41	0	45	126	225	-
22-21	0	16	135	175	349
22-55	0	30	142	226	314
24-61	0	90	180	270	324

Key/Keyway Orientations

For BS9522 F0017



Datum is always taken from major key or keyway. In receptacles the major keyway always remains fixed in relation to the mounting flange. For the A',B,C,D',E and F orientations, the three bayonet locations and associated minor keyways are rotated complete, in accordance with the table below.

N.B.- The accompanying diagram shows a receptacle shell, with keyways. Corresponding key orientations for a mating plug shell are therefore always clockwise.

Shell Size	Values for ∝ (degrees)							Values for θ (degrees)							Values for β (degrees)						
	N	A*	B	C	D*	E	F	N	A*	B	C	D*	E	F	N	A*	B	C	D*	E	F
8	105	92	-	-	118	118	82	35	35	-	-	35	30	50	75	75'	-	-	75	100	75
10	105	95	85	125	115	115	85	35	35	35	35	35	30	50	75	75	75	75	75	100	75
12	105	97	89	121	113	115	85	35	35	35	35	35	30	50	75	75	75	75	75	100	75
14	105	98	91	119	112	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
16	105	99	93	117	111	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
18	105	100	95	115	110	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
20	105	100	95	115	110	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
22	105	101	97	113	109	7S	120	35	35	35	35	35	30	50	75	75	75	100	75	75	75
24	105	101	97	113	109	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75

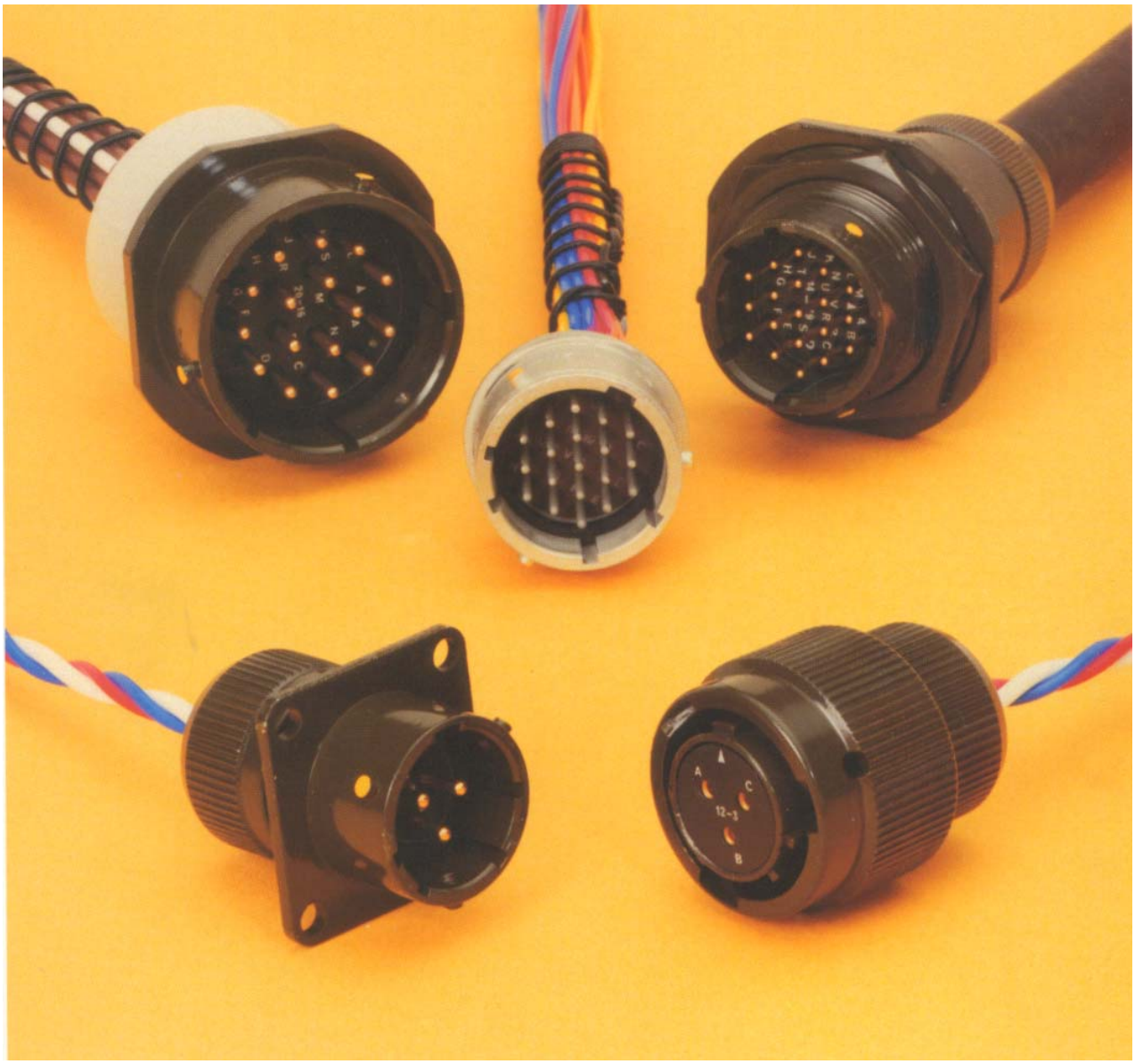
Shell Size	Values for φ (degrees) Orientation							Values for ω (degrees) Orientation						
	N	A*	B	C	D*	E	F	N	A*	B	C	D*	E	F
8	50	50	50	50	50	30	45	60	47	-	-	73	73	47
10	50	50	50	50	50	30	45	60	50	40	80	70	70	50
12	50	50	50	50	50	30	45	60	52	44	76	68	70	50
14	50	50	50	50	50	30	35	60	53	46	74	67	30	75
16	50	50	50	50	50	30	35	60	54	48	72	66	30	75
18	50	50	50	50	50	30	35	60	55	50	70	65	30	75
20	50	50	50	50	50	30	35	60	55	50	70	65	30	75
22	50	50	50	50	50	30	35	60	56	52	68	64	30	75
24	50	50	50	50	50	30	35	60	56	52	68	64	30	75

*** now inactive for new designs but available for replacement purposes. Superseded in BS9522 F0017 by orientations E and F.**

62 GB- Series Receptacles

CE-2Ra

Miniature Bayonet Lock Connectors
Complies with MIL-C-26482



This miniature bayonet lock connector series offers designers important features not found in any other range of connectors.

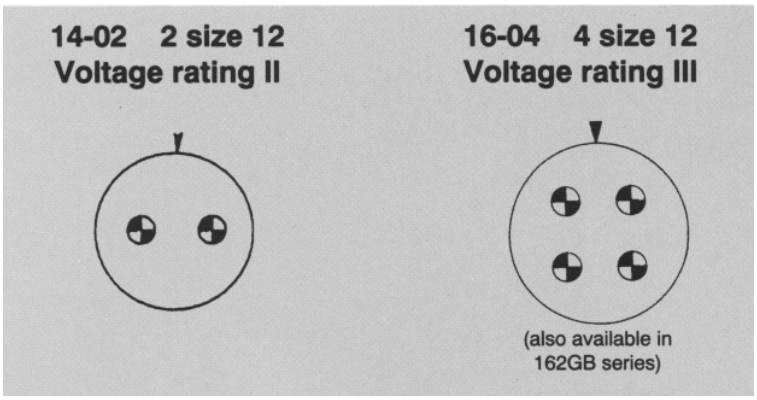
They are developed and manufactured entirely in the U.K. by AMPHENOL Ltd., and have full qualification approval to British Standards Specification BS 9522 F0017 and British Defence Specification DEF STAN 59-35 (Part 3) Sec. 7.

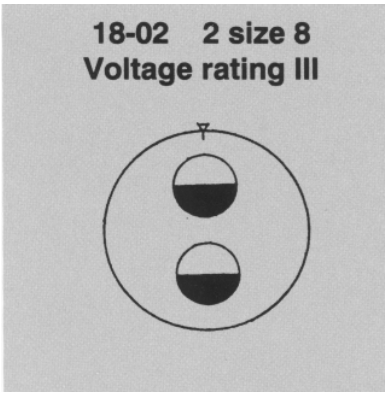
This catalogue to be used in conjunction with Catalogues:
CE-2Pa – 62GB Series Plugs
CE-2Aa – 62GB Series Accessories

Amphenol

62GB and Pattern 608

New Planforms





Current:

(a) Maximum current per individual contact (in isolation)* at ambient temperature of 85°C

Contact size 12: 23 A

(b) Maximum current per contact through all contacts simultaneously at an ambient temperature of 85°C

Contact size 12: 20 A

Current:

(a) Maximum current per individual contact (in isolation)* at ambient temperature of 85°C

Contact size 8: 45 A

(b) Maximum current per contact through all contacts simultaneously at an ambient temperature of 85°C

Contact size 8: 40 A

	Sea level 1013 mbar †			8500m (27,900ft) 320 mbar			21,340m (70,OOOft) 44 mbar		
Voltage rating	I	II	III	I	II	III	I	II	III
Working voltages ** (nominal) d.c. or a.c. peak	700	1200	1500	550	650	800	330	380	450
Voltage proof d.c. or a.c. peak	2100	3000	3000	1100	1300	1300	660	760	750

* i.e. when only one contact per connector is electrically loaded.

† 1 mbar=10^2 N/m^2=100 Pa

** Establishment of electrical safety factors is the responsibility of the user

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Amphenol ® 62GB solder connectors

This catalogue to be used in conjunction with Catalogues:
CE-2Pa – 62GB Series Receptacles
CE-2Aa – 62GB Series Accessories

This miniature bayonet lock connector series offers designers important features not found in any other range of connectors. The range has full qualification approval to British Standards Specification BS 9522 FOO 17 and British Defence Specification DEF STAN 59-35 (Part 3) Sec. 7.

62GB Series connectors - developed and manufactured entirely in the United Kingdom by Amphenol Limited. They are the first and only British connectors to have achieved this. A doubly strong position which Amphenol are well geared to handle. The manufacturing facilities of the Whitstable plant have been cited as exemplary in Europe. Certainly the layout is extensive and extremely efficient; safety awards have been attained every time returns have been submitted to the British Safety Council.

62GB Series connectors have been well established with Government authorities on an international scale and users can be found in Sweden, Denmark, Norway, Finland, Germany, Spain, Holland, India, Canada and Italy.

Derating

Connectors must be derated under the following operating conditions:

1. At elevated ambient temperatures, the current ratings are reduced so that total maximum hot spot temperature of 125°C is not exceeded.

2. At high altitudes, revised voltage ratings become effective as shown on page 7.

3. When connectors to different specifications are intermated (e.g. BS 9522 FOO 17 and MIL-C26482), the combination must not be operated under conditions more severe than the less stringent clause of either specification.

   Amphenol 62GB connectors are designed to meet the most stringent requirements of both specifications.

Military Specifications

British Standards Specification BS 9522 FOO 17 closely corresponds to the United States Military Specification MIL-C-26482 solder terminations. Certain differences exist between the schedules which can be seen on pages 2 and 3.

Approved gauges are used to check interchangeability of 62GB series with other connectors manufactured to BS 9522 FOO 17 or MIL-C-26482.

Basic Construction

62GB Series can be supplied in brass or stainless steel.

The normal shell finish used, which has a high resistance to corrosion, is zinc cobalt olive drab. Other finishes may be supplied to special order, such as cadmium plate which is available by adding deviation (714) to the end of part number.

Inserts are of polychloroprene rubber compounded to an Amphenol specification. Operating temperature range is -55°C to 125°C, and the connectors have gold-plated contacts designed for soldered connections. Configurations for size 20 contacts range between 2 contacts in the size 8 12.7mm (0.5in diameter) shell up to a maximum of 61 contacts in the size 2436.1 mm (1.5in diameter) shell. Intermediate sizes, and contact data for heavier current ratings are shown in the insert availability chart on page 6 and 7.

Hermetic connectors with glass sealed dialectric are manufactured with mild steel shells and nickel iron contacts plated tin over copper.

* Other finishes are available on request.

Protection Against Mis-Mating or Cross-Plugging

In BS 9522 FOO 17 positive shell-to-shell keying is provided with keys and keyways in a choice of either the normal (N) or any of the four preferred alternate positions: B, C, E and F. This prevents mismating between shells of different orientations and overcomes the difficulties associated with rotated inserts and a standard key-keyway orientation. In the latter system, damage to the inserts or contacts can result if excessive force is used to engage non-mating pairs.

Rotated inserts are, however, permissible in BS 9522 FOO 17 connectors if required to mate with or replace units to MIL-C-26482 mounted in existing equipment. Connectors have normal orientations manufactured to BS 9522 FOO 17 or MIL-C-26482 are fully intermateable as also are connectors with inserts in positions W, X, Y or Z.

Schedule of Tests
Required for Qualification Approval

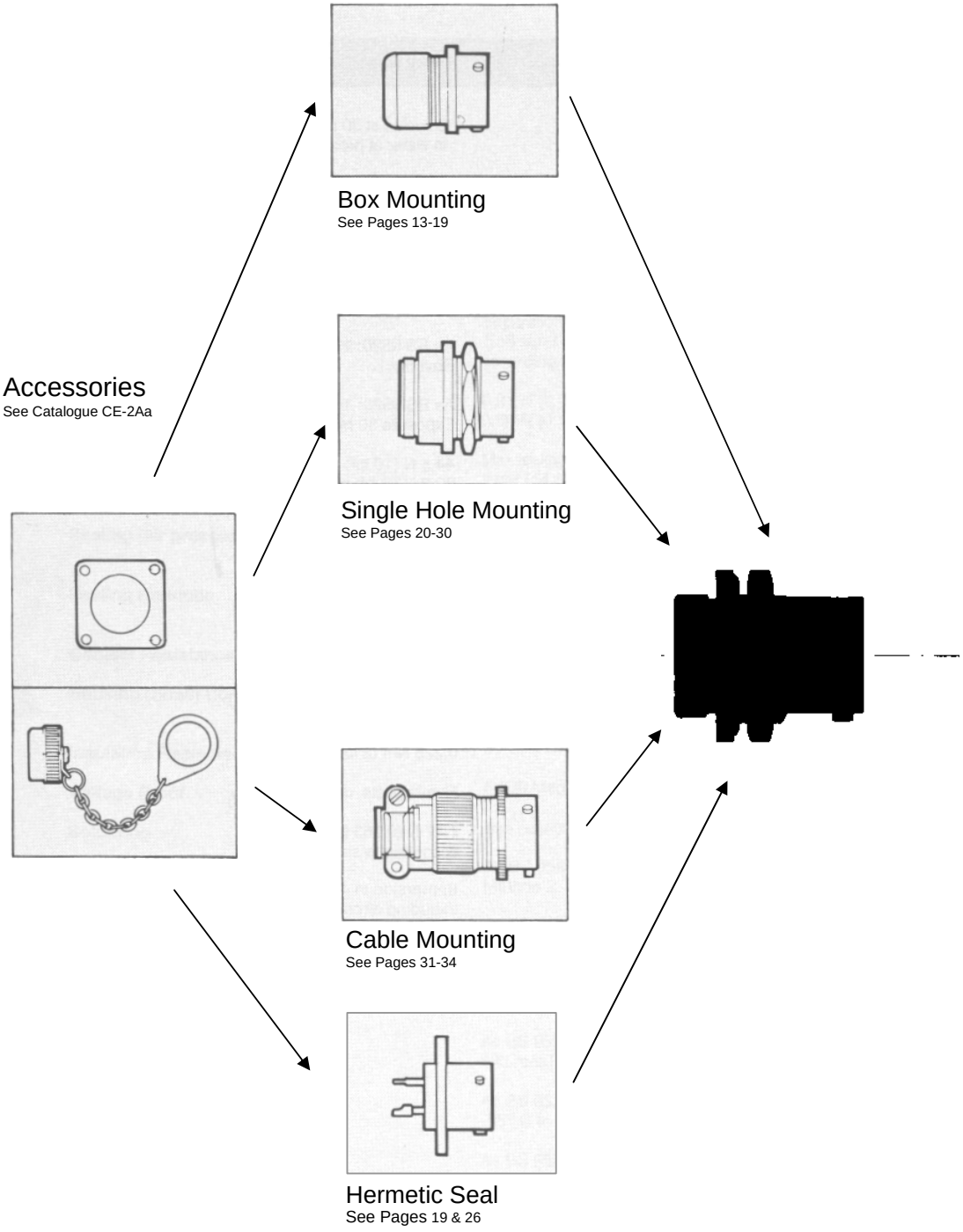
Tests	Brief Description
Visual Examination	
Dimensions, outline mass(including contacts) Compatability Gauging procedure	
Polarization	
Engaging and separating force, connector	Engagement max: 0,90 Nm (8.0 lbf.in.) to 4,97 Nm (44 lbf.in.) according to shell size. Separation min: 0,22 Nm (2.0 lbf.in.) to 1,58 Nm (14.0 lbf.in.) according to shell size.
Contact Holding Force	0,21 N (0.047 lbf) min.size 20 0,56 N (0.126 lbf)min. size 16
Sealing (air pressure)	Max leakage 28,53 uNm/s (1 cm3/h), 1 bar (14.5 p.s.i.) differential.
Sealing Hermetic	Hermetic receptacles have a max leak of 0.1 micron cubic foot per hour (1 x 10-6Cm3/s)
Contact Resistance	5 milliohms max.
Housing (Shell) Continuity	200 milliohms max. 5 milliohms max. grounding spring styles.
Insulation Resistance	5,000 Megaohms at 500 - 50 V d.c.
Voltage Proof	See page 7. Duration 1 minute
Soldering	As BS 9520: 1974, Clause 1.2.6.6, Method 2.
Bumping	As BS 9520: 1974, Clause 1.2.6.1. 4,000 -10 bumps / 390m / s2 (40 gn).
Vibration	As BS 9520: 1974, Clause 1.2.6.2.1. Procedure A. 10 Hz to 5000 Hz, 0.75 mm / 10 gn.
Shock	As BS 9520: 1974, Clause 1.2.6.3. 981 m/s2 (100 g n).
Acceleration (Steady State)	As BS 9520: 1974, Clause 1.2.6.4. 490 m/s2 (50 gn).
Rapid Change of Temperature	As BS 9520: 1974, Clause 1.2.6.7. -550 C to - 1250 C.
Climatic Sequence	As BS 9520: 1974, Clause 1.2.6.11. Severity 55/125/56.
Flammability	As BS 9520: 1974, Clause 1.2.6.8. Direct flame applied, duration 1 minute.
Damp Heat (Steady State)	As BS 9520: 1974, Clause 1.2.6.14. Severity 56 days.

Schedule of Tests
Required for Qualification Approval

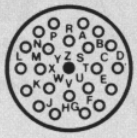
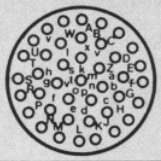
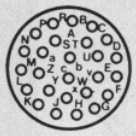
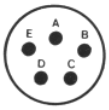
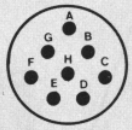
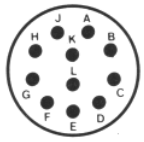
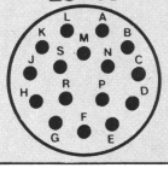
Tests	Brief Description
Immersion (at low air pressure)	3 cycles at 30 mins each cycle, total immersion in water at pressure 44 m bar.
Mechanical Endurance	500 operations minimum
High Temperature Endurance	Long term: 1,000 hrs. at 85^{0}C ambient carrying the specified current. Short term: 250 hrs at 125^{0}C, no current.
Mould Growth	As BS 9520: 1983, Clause 1.2.6.16 28 days duration.
Salt Mist	As BS 9520: 1983, Clause 1.2.6.17. Severity 1.
Dust	As BS 9520: 1983, Clause 1.2.6.18 Exposure 30 minutes.
Robustness of Terminations	44,5 N (101bf) size 16 22,2 N (5 lbf) size 20
Contact Retention (in insert)	67,0 N (15 lbf) min. size 20 112,0 N (25 lbf) min. size 16
Insert Retention (in shell)	517 KN1m2 (751bf/in2) min.
Test Prod Damage	Moment: 0,056 Nm (0.5 lbf in) size 20 0,225 Nm (2 lbf in) size 16
Impact	Five impacts, drop height 1 m (3ft.3 in.).
Grounding Spring Holding Force Plugs with grounding springs only.	1,17 N (0.263 lbf) to 2,74 N (0.616 lbf) according to size.
Fluid Resistance	Immersion in 4 solvents and 9 fluids including aircraft fuels, lubricating oils and hydraulic fluids.
Compass Safe Distance	As BS 9520: 1974, Clause 1.2.5.11. 127 mm (5.0 in) min.

Connector Styles Available

Receptacles



Insert Availability

8	10	12	14	16	18	20
8-2*	10–6	12–10	14-12†	16-23* 	18–32	20–41 
8–3*	10–7		14–15	16–26 		
8–33			14–19			
8-4*						
8–98	10–2	12–3	14–5 	16–8 	18–11 	20–16 

NOTES

* This insert arrangement is not included in B.S. spec., but is available and. listed in MIL-C-26482.

† Due to the arrangement of contacts in the 14-12 insert arrangement it is classified, for current derating, in the shell size range 18-24.

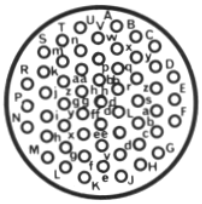
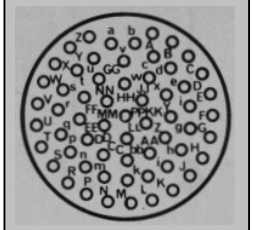
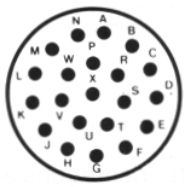
Lettering of inserts shown above corresponds to view of front (mating surface of pin inserts or rear face (cable accessory end) of socket inserts.

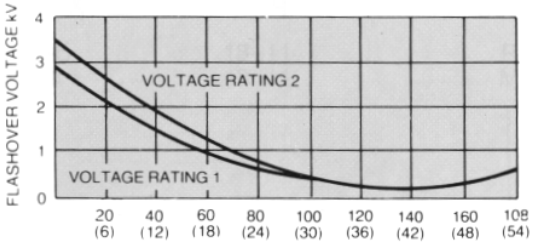
KEY ● No 16 size contacts
O No 20 size contacts

CURRENT RATING

Maximum current per individual contact (in isolation) at a maximum ambient temperature of 85°C: Size 20 contact 7.5A Size 16 contact 13-OA The performance of 62GB Series connectors at all times exceeds the maximum continuous bunched rating of the appropriate size wire, or cable of equivalent temperature rating. This bunched rating is therefore the determining factor. In the case of mixed loadings, the greatest individual load shall be the bunched loading. In any combination of ambient temperature plus temperature rise due to current flow through the contacts, the maximum connector internal hot spot temperature of 125°C must not be exceeded. That is, when only one contact per connector is loaded.

Insert Availability

		VOLTAGE RATINGS			
22	**24**	**ALTITUDE**	**D.C. WORKING VOLTAGE**	**A.C. WORKING VOLTAGE R.M.S.**	**PROOF VOLTAGE D.C. OR A.C. PEAK**
22-55 	**24-61** 	**Rating 1** Sea level	700	500	2100
		300 mb at 20°C 8,500m (27,800 ft)	550	390	1100
		44 mb at 20°C 20,000m (66,000 ft)	330	230	660
22-21  † Available to special order only		**Rating 2** Sea level	120	850	3000
		300 mb at 20°C 8,500m (27,800 ft)	650	460	1300
		44 mb at 20"C 20,000m (66,000 ft)	380	270	760



ALTITUDE-THOUSANDS OF FEET (METRES)
Relationship between flashover voltage and altitude for each voltage rating

VOLTAGE RATINGS

Two categories of voltage rating are specified in BS9522 F0017, F0038 and N0001.

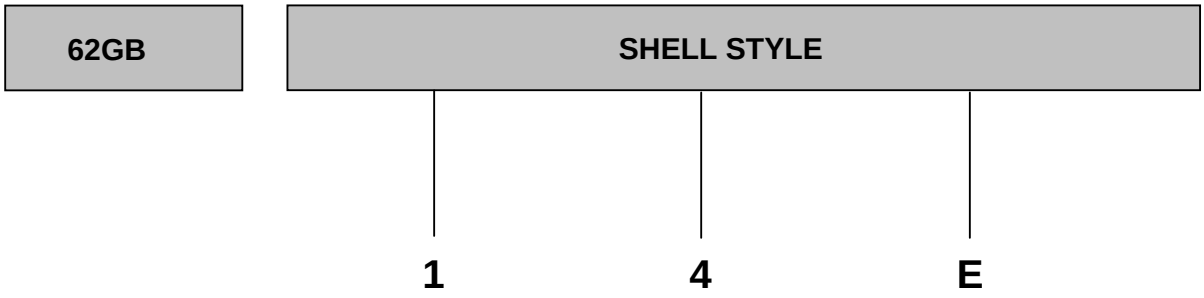
Rating 1 (700V d.c. working at sea-level) Applicable to the high contact density inserts shown in the upper section of the insert availability diagram above.

Rating 2 (1200V d.c. working at sea-level) Applicable to the inserts shown in the lower section of the insert availability diagram.

Altitude derating. Information on voltage derating for operation at altitudes above sea-level can be obtained from the flashover voltage altitude curves on the left.

Ordering 62GB Series Connectors

To obtain the specific connector required write down the connector number from the typical example below. Only inserts shown in the availability chart on p. 10&11 can be specified. All connectors are delivered with protective dust covers



Series designation
62 GB - Aluminium shell
62 GB SS -Stainless steel shell*
62 GB CU - Brass shell*
*consult factory for availability
62GB-XXH-Hermetic mild steel shell.

Specification key
1 - Styles originally specified in MIL-C-26482
5 - Styles exclusive to BS9522 F0017

Shell style
0 - Receptacle wall mounting
1 - Receptacle cable mounting
2 - Receptacle box mounting
3 - Receptacle, solder flange mounting
4 - Receptacle, internally threaded with cable accessories as illustrated, for single hole mounting
6 - Plug cable mounting
7- Receptacle, plain shell, single hole mounting

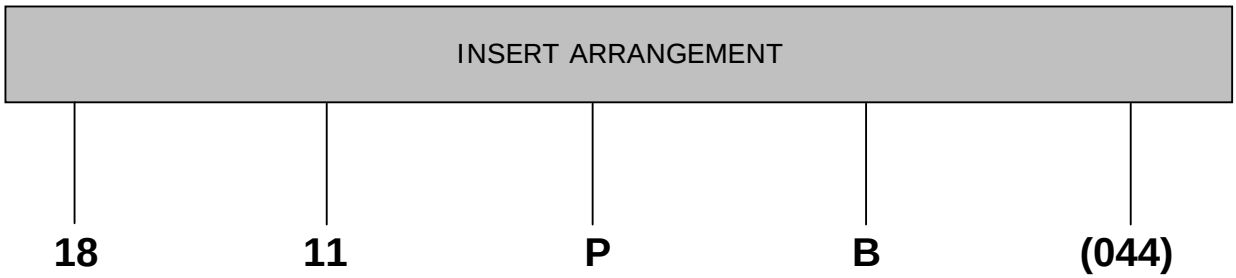
Environmental code
A - Plain shell, exposed solder buckets. No grommet
E - Insert seal and grommet seal with grommet nut (excluding 12E which has plain shell and no grommet or nut)
F - As (E) but grommet nut has integral strain relief clamp
H - Hermetic seal no cable accessories
J - As (E) but with resilient gland seal and nut for unscreened jacketed cable. No grommet supplied. See pp. 26-27 for accessory to accept screened jacketed cable.
P - Potting construction complete with potting mould
T - Exposed solder buckets. Threaded shell for cable accessories

HOW TO ORDER FROM MS CONNECTOR NUMBERS

Connector numbers in the AMPHENOL and MS numbering systems. Only alternative insert orientations are specified in MIL-C-26482 which does not include alternative key/keyway orientations.

MS31	-	14	E	18 -11	P	X
62GB	-	14	E	18 -11	P	X

Ordering 62GB Series Connectors



Shell size (in sixteenths of an inch) 8, 10, 12, 14, 16 18,20,22,24

Number of contacts
2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 16, 19, 21', 23, 26, 32, 41, 55, 61
* consult factory for availability

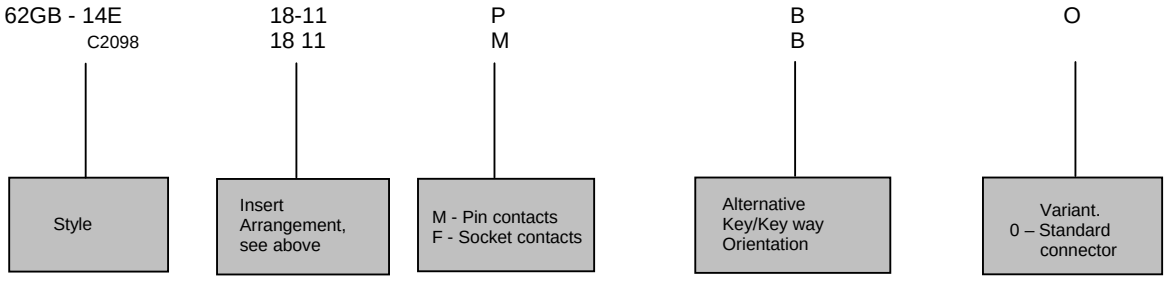
Contact Style
P - Pins
S - Sockets For hermetic connectors. P3 denotes pin contacts with solder bucket terminations. (Standard range). P2 denotes pin contacts with flattened and pierced terminations.
(Special order).

Orientation
(Omit if normal orientation)
Keys/Keyways: A', B, C, D', E. F, (see p. 31)
Inserts: W,X,Y,Z.(see p56/57)
*Inactive for new designs

Deviations
(044) Rough grip heavy duty coupling ring.
(046) Box mounting plug.
(214)Fitted with extension back shell and strain relief clamp without grommet on F types only
(218) Lever coupling ring
(219)Contacts for flexible punted wrung (57A and 12E only)
(639) Bright cadmium plated shells
(345) Contacts for flexible punted wiring 12H,13H 17H only
(276) Hermetics with gold plated contacts.
(608) Black anodise.
(416) Electroless nickel
(714) Cadmium plate olive drab

HOW TO ORDER FROM B.S. CONNECTOR NUMBERS

Select the connector style by reference to BS9522 F0017 using the code below for identification. Note that the B.S. Specification includes only certain connectors from the table of styles as shown on pp. 8 & 9. Alternative key/keyway orientations are preferred in the BS9522 F0017 Specification to prevent mis-mating. However, rotated inserts are permissible where connectors are required to mate with or replace items to MIL-C-26482 on existing equipment.



Box Mounting Receptacles

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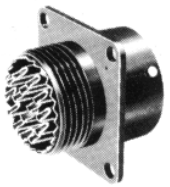
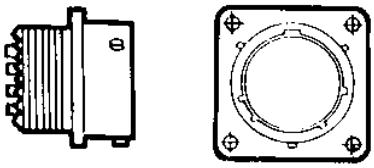
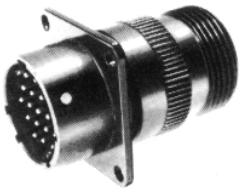
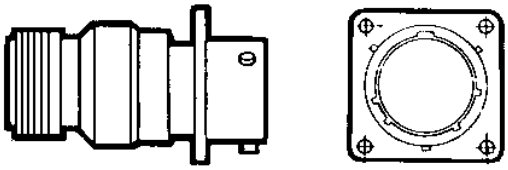
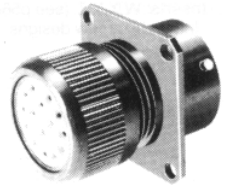
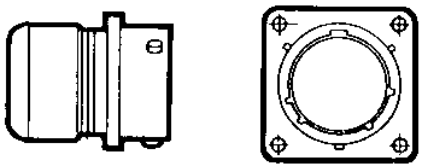
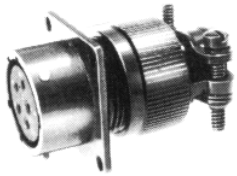
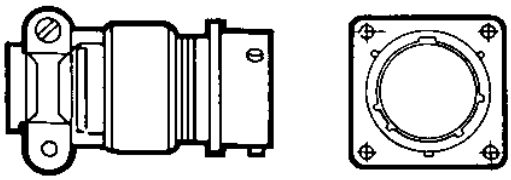
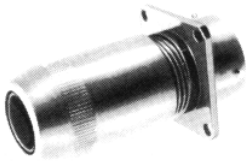
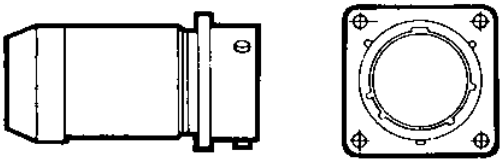
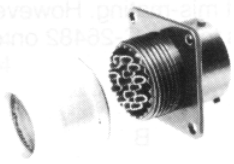
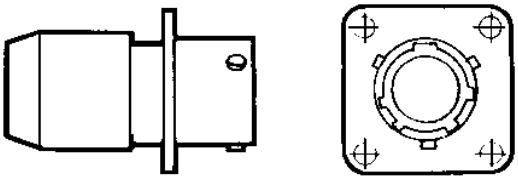
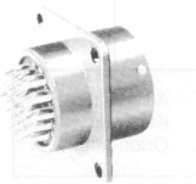
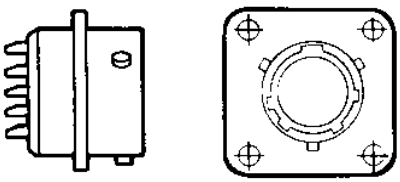
62GB-50T			15
62GB-10A			15
62GB-10E			16
62GB-10F			16
62GB-10J			17
62GB-10P			17
62GB-12E			18

Box Mounting Receptacles

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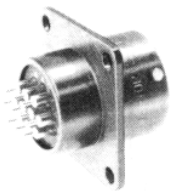
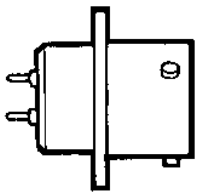
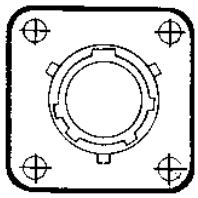
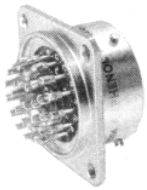
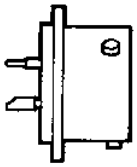
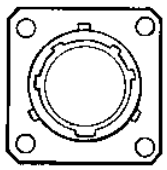
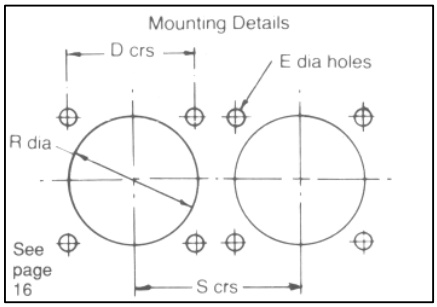
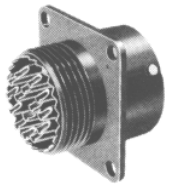
62GB-12E(219)				18
62GB-12H Hermetic Seal				19

Box Mounting Receptacles



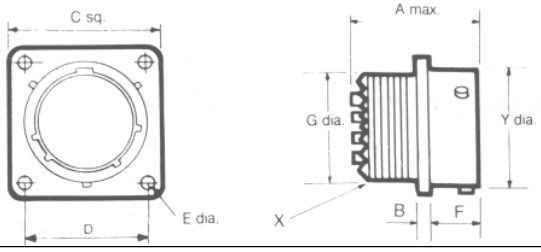
50T



62GB-50T

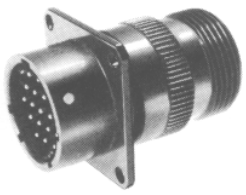
BS9522-C2096

4-hole flange mounting with threaded shell to accept standard cable accessories.



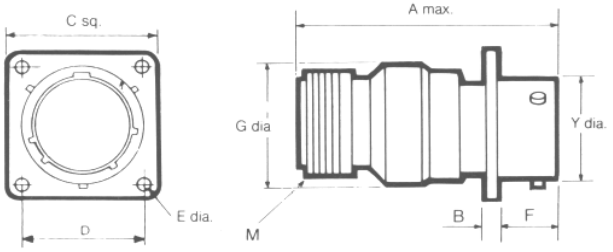
Shell Size	A max	B ± 0.005 (± 0.13)	C max sq.	D TP Sq.	E dia. ± 0.010 (± 0.254)	F ±0 005 (± 0.13)	G dia max.	Y dia. max.	X Thread
08	0.978 24.84	0.062 1.58	0.817 20.75	0.594 15.09	0120 3.05	0.445 11.3	0.434 11.02	0.473 12.02	7/16 – 28 UNEF
10	0.978 24.84	0.062 1.58	0.942 23.93	0.719 18.26	0.120 3.05	0.445 11.3	0.558 14.17	0.590 14.99	9/16 – 24 NEF
12	0.978 24.84	0.062 1.58	1.036 26.32	0.812 20.63	0.120 3.05	0.445 11.3	0.683 17.35	0.750 19.05	11/16 - 24 NEF
14	0.978 24.84	0.062 1.58	1.130 28.70	0.906 23.10	0.120 3.05	0.445 11.3	0.808 20.52	0.875 22.23	13/16 – 20 UNEF
16	0.978 24.84	0.062 1.58	1.223 31.07	0.969 24.61	0.120 3.05	0.445 11.3	0.933 23.7	1.000 25.4	15/16 – 20 UNEF
18	0.978 24.84	0.062 1.58	1.317 33.45	1.062 26.58	0.120 3.05	0.445 11.3	1.057 26.85	1.125 28.58	1.1/16 - 18 NEF
20	1.048 26.62	0.080 2.03	1.442 36.63	1.156 29.36	0.120 3.05	0.555 1410	1.182 30.02	1.250 31.75	1.3/16 - 18 NEF
22	1.048 26.62	0.080 2.03	1.567 39.80	1.250 31.75	0.120 3.05	0.555 14.10	1.307 33.20	1.375 34.93	1.5/16 - 18 NEF
24	1.048 26.62	0.080 2.03	1.692 42.98	1.375 34.93	0147 3.d4	0.590 14.99	1.432 36.37	1.500 38.1	1.7/16 – 18 NEF

10A



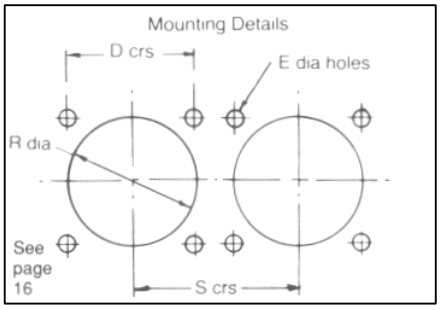
62GB-10A

4-Hole flange mounting with general duty back shell. No grommet supplied.



Shell Size	A max.	B ± 0.005 (± 0.13)	C Max. sq.	D TP sq.	E ± 0.010 (± 0.254)	F ± 0.005 (± 0.13)	G dia max.	Y dia. max.	M
08	1.624 41.25	0.062 1.58	0.817 20.75	0.594 15.09	0.120 3.05	0.445 11.3	0.561 14.25	0.473 12.02	1/2 - 28 UNEF
10	1.624 41.25	0.062 1.58	0.942 23.93	0.719 18.26	0.120 3.05	0.445 11.3	0.686 17.43	0.590 14.99	5/8 - 24 NEF
12	1.624 41.25	0.062 1.58	1.036 26.32	0.812 20.63	0.120 3.05	0.445 11.3	0.811 20.60	0.750 19.05	3/4 - 20 UNEF
14	1.624 41.25	0.062 1.58	1.130 28.70	0.906 23.10	0.120 3.05	0.445 11.3	0.936 23.78	0.875 22.23	7/8 - 20 UNEF
16	1.624 41.25	0.062 1.58	1223 31.07	0.969 24.61	0.120 3.05	0.445 11.3	1.061 26.98	1.000 25.4	1 - 20 UNEF
18	1.624 41.25	0.062 1.58	1.317 33.45	1.062 26.58	0.120 3.05	0.445 11.3	1.186 30.12	1.125 28.58	1.3/16 - 18 NEF
20	1 .687 42.85	0.080 2.03	1.442 36.63	1.156 29.36	0.120 3 05	0.555 14.10	1.311 33.30	1 250 31.75	1.3/16 - 18 NEF
22	1.687 42.85	0.080 2.03	1.567 39.80	1.250 31.75	0.120 3.05	0.555 14.10	1.436 36.47	1.375 34.93	1.7/16 - 18 NEF
24	1.730 43.94	0.080 2.03	1.692 42.98	1.375 34.93	0 147 3.73	0.590 14.99	1.561 39.65	1.500 38.1	1.7/16 - 18 NEF

Box Mounting Receptacles

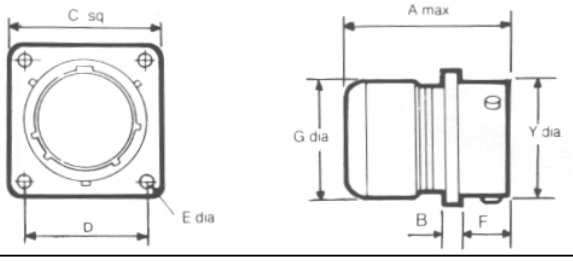


10E

62GB-10E

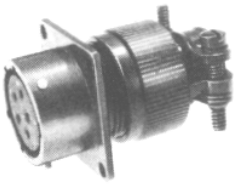
MIL-C-26482 MS3110E

4-hole flange mounting with grommet and grommet nut



Shell Size	A max	B ± 0.005 (± 0.13)	C max sq.	D TP sq.	E ± 0.010 (± 0.254)	F ± 0.005 (± 0.13)	G dia max	V dia. max
08	1.281	0.062	0.817	0.594	0.120	0.445	0.561	0.473
	32.54	1 .58	20.75	15.09	3.05	11.3	14.25	12.02
10	1.281	0.062	0.942	0.719	0.120	0.445	0.686	0.590
	32.54	1.58	23.93	18.26	3.05	11.3	17.43	14.99
12	1.281	0.062	1.036	0.812	0.120	0.445	0.811	0.750
	32.54	1.58	26.32	20.63	3.05	11.3	20.60	19.05
14	1.281	0.062	1.130	0.906	0.120	0.445	0.936	0.875
	32.54	1.58	28.70	23.10	3.05	11.3	23.78	22.23
16	1.281	0.062	1.223	0.969	0.120	0.445	1.061	1.000
	32.54	1.58	31.07	24.61	3.05	11.3	26.98	25.4
18	1.281	0.062	1.317	1.062	0.120	0.445	1.186	1.125
	32.54	1.58	33.45	26.58	3.05	11.3	30.12	28.58
20	1.383	0.080	1.442	1.156	0.120	0.555	1.311	1.250
	35.13	2.03	36.63	29.36	3.05	14.10	33.30	31.75
22	1.383	0.080	1.567	1.250	0.120	0.555	1.436	1.375
	35.13	2.03	39.80	31.75	3.05	14.10	36.47	34.93
24	1 .383	0.080	1.692	1.375	0.147	0.590	1.561	1.500
	35.13	2.03	42.98	34.93	3.74	14.99	39.65	38.1

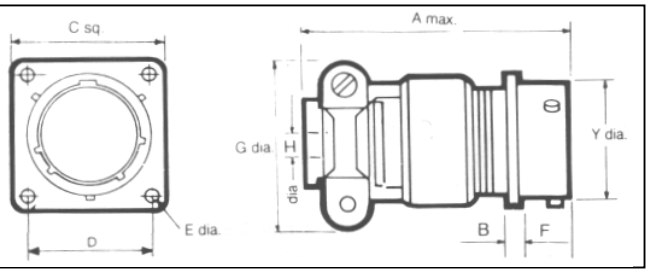
10F



62GB-10F

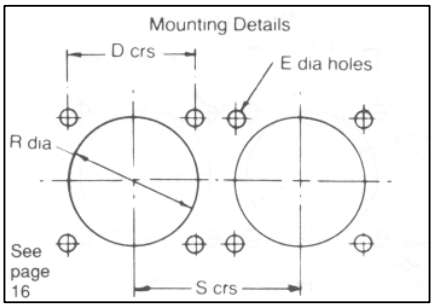
MIL-C-26482 MS31 10F

4-hole flange mounting with grommet and grommet nut fitted with integral strain relief clamp

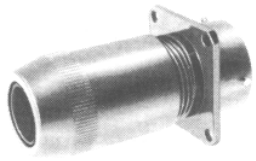


Shell Size	A max.	B ± 0.005 (± 0.13)	C max. sq.	D TP Sq.	E ± 0.010 (± 0.254)	F ± 0.005 (± 0.13)	G dia max.	H ± 0.005 (± 0.13)	Y dia. max.
08	1.762	0.062	0.817	0.594	0.120	0.445	0.828	0.156	0.473
	44.76	1.58	20.75	15.09	3.05	11.3	21.03	3.96	12.01
10	1.762	0.062	0.942	0.719	0.120	0.445	0.891	0.188	0.590
	44.76	1.58	23.92	18.26	3.05	11.3	22.63	4.78	14.99
12	1 .762	0.062	1.036	0.812	0.120	0.445	1.016	0.312	0.750
	44.76	1.58	26.31	20.63	3.05	11.3	25.81	7.93	19.05
14	1.736	0.062	1.130	0.906	0.120	0.445	1.141	0.375	0.875
	44.10	1.58	28.70	23.10	3.05	11.3	28.98	9.58	22.23
16	1.876	0.062	1.223	0.969	0.120	0.445	1.203	0.500	1.000
	47.65	1.57	31.07	24.61	3.05	11.3	30.56	12.7	25.4
18	1.876	0.062	1.317	1.062	0.120	0.445	1.426	0.625	1.125
	47.65	1.58	33.45	26.58	3.05	11.3	36.22	15.87	28.58
20	2.118	0.080	1.442	1.156	0.120	0.555	1.426	0.625	1.250
	53.80	2.03	36.63	29.36	3.05	14.10	36.22	15.88	31.75
22	2.118	0.080	1.567	1.250	0.120	0.555	1.567	0.750	1.375
	53.80	2.03	39.80	31.75	3.05	14.10	39.80	19.05	34.93
24	2.250	0.080	1.692	1.375	1.147	0.590	1.735	0.800	1.500
	57.15	2.03	42.98	34.93	3.74	14.99	44.07	20.32	38.10

Box Mounting Receptacles

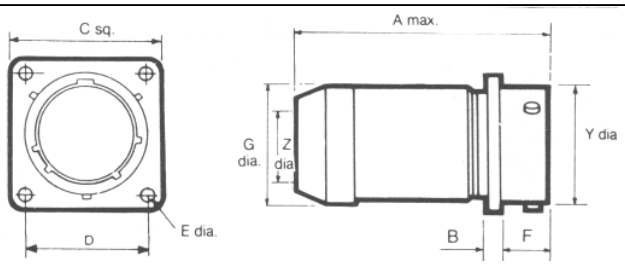


10J



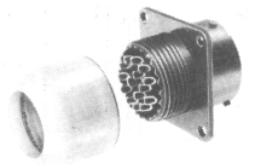
62GB-10J

4-hole flange mounting with clamp for unscreened jacketed cable. No grommet supplied



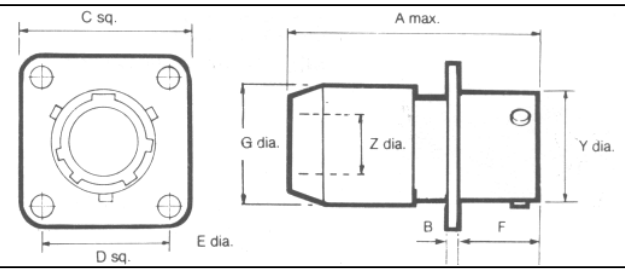
Shell Size	A max	B ± 0.005 (± 0.13)	c max.sq	D TP sq	E ± 0.010 (± 0.254)	F ± 0.005 (± 0.13)	G dia. max.	Y dia max	Z Cable Entry min closed	Z Cable Entry max free
08	1.846	0.062	0.817	0.594	0.120	0.445	0.561	0.473	0.168	0.230
	46.89	1.58	20.75	15.09	3.05	11.3	14.25	12.02	4.28	5.84
10	1.846	0.062	0.942	0.719	0.120	0.445	0.686	0.590	0.205	0.312
	46.89	1.58	23.93	18.26	3.05	11.3	17.43	14.99	5.21	7.93
12	1.947	0.062	1.036	0.812	0.120	0.445	0.811	0.750	0.338	0.442
	49.45	1.58	26.32	20.63	3.05	11.3	20.60	19.05	8,59	11.23
14	2.147	0.062	1.130	0.906	0.120	0.445	0.936	0.875	0.416	0.539
	54.54	1.58	28.70	23.10	3.05	11.3	23.78	22.23	10.57	13.69
16	2.347	0.062	1.223	0.969	0.120	0.445	1.061	1.000	0.550	0.616
	59.61	1.575	31.07	24.61	3.05	11.3	26.96	25.4	13.97	15.65
18	2.547	0.062	1.317	1.062	0.120	0.445	1.186	1.125	0.600	0.672
	64.70	1.575	33.45	26.58	3.05	11.3	30.12	28.58	15.24	17.07
20	2.831	0.080	1.442	1.156	0.120	0.555	1.311	1.250	0.635	0.747
	71.91	2.03	36.63	29.36	3.05	14.10	33.30	31.75	16.13	18.98
22	3.031	0.080	1.567	1.250	0.120	0.555	1.436	1.375	0.670	0.846
	76.99	2.03	39.80	31.75	3.05	14.10	36.47	34.93	17.02	21.49
24	3.074	0.080	1.692	1.375	0.147	0.590	1.561	1.500	0.740	0.894
	78.08	2.03	42.98	34.93	3.73	14.99	39.65	38.1	18.80	22.71

10P



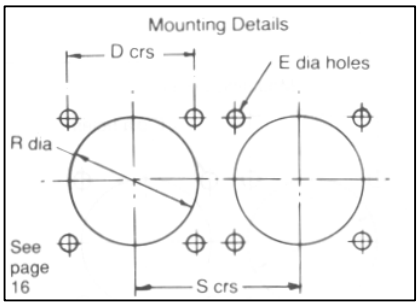
62GB-10P

4-hole flange mounting for potting



Shell Size	A max	B ± 0.005 (± 0.13)	c max.sq.	D TP sq	E ± 0.010 (± 0.254)	F ± 0.005 (± 0.13)	G dia. max	Y dia. max	Z dia. min
08	1.453	0.062	0.817	0.594	0.120	0.445	0.572	0.473	0.260
	36.91	1.575	20.75	15.09	3.05	11.3	14.53	12.02	6.60
10	1.453	0.062	0.942	0.179	0.120	0.445	0.666	0.590	0.463
	36.91	1.58	23.93	18.26	3.05	11.3	16.92	14.99	11.76
12	1.453	0.062	1.036	0.812	0.120	0.445	0.822	0.750	0.577
	36.91	1.58	26.32	20.63	3.05	11.3	20.88	19.05	14.15
14	1.453	0.062	1.130	0.906	0.120	0.445	0.907	0.875	0.590
	36.91	1.58	28.70	23.10	3.05	11.3	23.04	22.23	14.99
16	1.453	0.062	1.223	0.969	0.120	0.445	1.040	1.000	0.713
	36.91	1.58	31.07	24.61	3.05	11.3	26.42	25.40	18.11
18	1.453	0.062	1.317	1.062	0.120	0.445	1.165	1.125	0.835
	36.91	1.58	33.45	26.58	3.05	11.3	29.60	28.58	22.21
20	1.672	0.080	1.442	1.156	0.120	0.555	1.285	1.250	1.015
	42.47	2.03	36.63	29.36	3.05	14.10	32.64	31.75	25.78
22	1.672	0.080	1.567	1.250	0.120	0.555	1.400	1.375	1.015
	42.47	2.03	39.80	31.75	3.05	14.10	35.56	34.93	25.78
24	1.734	0.080	0.692	1.375	0.147	0.590	1.540	1.500	1.265
	44.05	2.03	42.98	34.93	3.74	14.99	39.12	38.10	32.13

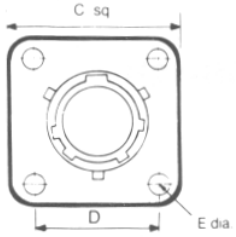
Box Mounting Receptacles

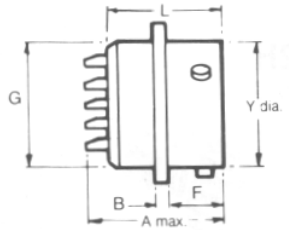


12E

62GB-12E

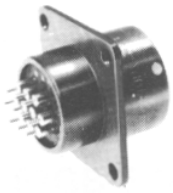
BS9522 - F0017 - C2097
MIL-C-26482 MS3112E





Shell Size	A max	8 ± 0.005 (± 0.13)	C max sq.	D TP sq.	E ± 0 010 (± 0.254)	F ± 0.005 (± 0.13)	G dia. max.	L	V dia. max.
08	0.978	0.062	0.817	0.594	0.120	0.445	0.434	0.800	0.473
	24.84	1.58	20.75	15.09	3.05	11.3	11.02	20.32	12.02
10	0.978	0.062	0.942	0.719	0.120	0.445	0.558	0.800	0.590
	24.84	1.58	23.93	18.26	3.05	11.3	14.17	20.32	14.99
12	0.978	0.062	1.036	0.812	0.120	0.445	0.683	0.800	0.750
	24.84	1.58	26.32	20.63	3.05	11.3	17.35	20.32	19.05
14	0.978	0.062	1.130	0.906	0.120	0.445	0.808	0.800	0.875
	24.84	1.58	28.70	23.10	3.05	11.3	20.52	20.32	22.23
16	0.978	0.062	1.223	0.969	0.120	0.445	0.933	0.800	1.000
	24.84	1.58	31.07	24.61	3.05	11.3	23.70	20.32	25.4
18	0.978	0.062	1.317	1.062	0.120	0.445	1.057	0.800	1.125
	24.84	1.58	33.45	26.58	3.05	11.3	26.85	20.32	28.58
20	1.048	0.080	1.442	1.156	0.120	0.555	1.182	0.875	1.250
	26.62	2.03	36.63	29.36	3.05	14.10	30.02	22.23	31.75
22	1.048	0.080	1.567	1.250	0.120	0.555	1.307	0.875	1.375
	26.62	2.03	39.80	31.75	3.05	14.10	33.20	22.23	34.93
24	1 .048	0.080	1.692	1.375	0.147	0.590	1.432	0.875	1.500
	26.62	2.03	42.98	34.93	3.74	14.99	36.37	22.23	38.1

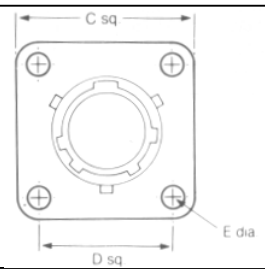
12E (219)

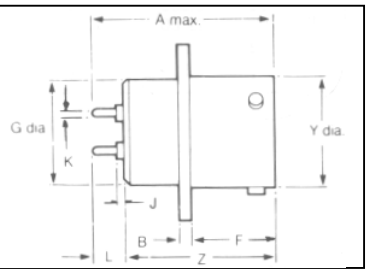


62GB-12E (219)

BS9522 - F0017 - C2262

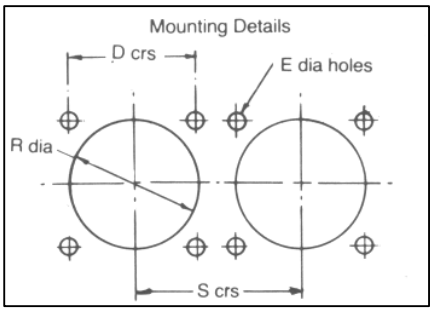
4-hole flange mounting with plain shell
with film wire terminations



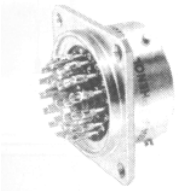


Shell Size	A max	B ± 0.005 (±0.13)	C max sq.	D TP sq.	E dia 0.010	F ± 0.005 (± 0.13)	G dia. Max	J ± 0.020 (± 0.51)	K min	K max.	L max	L min	Y dia max.	Z
08	0.982	0.062	0.817	0.594	0.120	0.445	0.434	0.089	0.030	0.028	0.198	0.166	0.473	0.800
	24.95	1.58	20.75	15.09	3.05	11.3	11.02	2.26	0.76	0.70	5.03	4.22	12.02	20.32
10	0.982	0.062	0.942	0.719	0.120	0.445	0.558	0.089	0.030	0.028	0.198	0.166	0.590	0.800
	24.95	1.58	23.93	18.26	3.05	11.3	14.17	2.26	0.76	0.70	5.03	4.22	14.99	20.32
12	0.982	0.062	1.036	0.812	0.120	0.445	0.683	0.089	0.030	0.028	0.198	0.166	0.750	0.800
	24.95	1.58	26.32	20.63	3.05	11.3	17.35	2.26	0.76	0.70	5.03	4.22	19.05	20.32
14	0.982	0.062	1.130	0.906	0.120	0.445	0.808	0.089	0.030	0.028	0.198	0.166	0.875	0.800
	24.95	1.58	28.70	23.10	3.05	11.3	20.52	2.26	0.76	0.70	5.03	4.22	22.23	20.32
16	0.982	0.062	1.223	0.969	0.120	0.445	0.933	0.089	0.030	0.028	0.198	0.166	1.000	0.800
	24.95	1 .58	31.07	24.61	3.05	11.3	23.70	2.26	0.76	0.70	5.03	4.22	25.4	20.32
18	0.982	0.062	1.317	1.062	0.120	0.445	1.057	0.089	0.030	0.028	0.198	0.166	1.125	0.800
	24.95	1.58	33.45	26.58	3.05	11.3	26.85	2.26	0.76	0.70	5.03	4.22	28.58	20.32
20	1.057	0.080	1.442	1.156	0.120	0.555	1.182	0.076	0.030	0.028	0.185	0.153	1.250	0.875
	26.85	2.03	36.63	29.36	3.05	14.10	30.02	1.93	0.76	0.70	4.70	3.89	31.75	22.23
22	1.057	0.080	1.567	1.250	0.120	0.555	1.307	0.076	0.030	0.028	0.185	0.153	1.375	0.875
	26.85	2.03	39.80	31.75	3.05	14.10	33.20	1.93	0.76	0.70	4.70	3.89	34.93	22.23
24	1.057	0.080	1.692	1.375	0.147	0.590	1.432	0.076	0.030	0.028	0.185	0.153	1.500	0.875
	26.85	2.03	42.98	34.93	3.74	14.99	36.37	1.93	0.76	0.70	4.70	3.89	38.1	22 23

Box Mounting Receptacles
Hermetic Seal

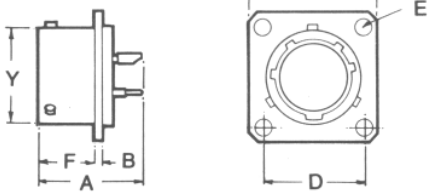


12H



62GB-12H

4-hole square mounting with exposed solder buckets or flattened and pierced pins.



Shell Size	A max	B ± 0.005 (± 0.13)	C max sq.	D	E 0.008 (± 0.203) (±.051) .002	F ± 0.005 (± 0.13)	R ±0.005 (±0.13)	S	Y
08	0.828 21.03	0.062 1.57	0.812 20.61	0.594 15.08	0.120 3.05	0.443 11.25	0.568 14.42	1.250 31.73	0.473 12.01
10	0.828 21.03	0.062 1.57	0.937 23.79	0.719 18.29	0.120 3.05	0.443 11.25	0.695 17.53	1.359 34.52	14.99 14.99
12	0.828 21.03	0.062 1.57	1.031 26.17	0.812 20.57	0.120 3.05	0.443 11.25	0.864 21.84	1.531 38.89	0.750 19.05
14	0.828 21.03	0.062 1.57	1.125 28.57	0.906 23.11	0.120 3.05	0.443 11.25	0.989 25.15	1.656 42.06	0.875 22.23
16	0.828 21.03	0.062 1.57	1.218 30.93	0.969 24.64	0.120 3.05	0.443 11.25	1.113 28.19	1.781 45.24	1.000 25.40
18	0.828 21.03	0.062 1.57	1.312 33.32	1.062 26.92	0.120 3.05	0.443 11.25	1.238 31.49	1.891 48.03	1.125 28.58
20	0.890 22.60	0.093 2.36	1.437 36.49	1.156 29.46	0.120 3.05	0.561 14.24	1.363 34.54	2.031 51.59	1.250 30.75
22	0.890 22.60	0.093 2.36	1.562 39.67	1.250 31.75	1.120 3.05	0.561 14.24	1.488 37.85	2.156 54.76	1.375 34.93
24	0 890 22.60	0.093 2.36	1.687 42.84	1.375 35.05	0.147 3.81	0.593 15.06	1.615 41.15	2.277 57.84	1.500 38.10

Single Hole Fixing Receptacles

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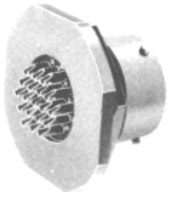
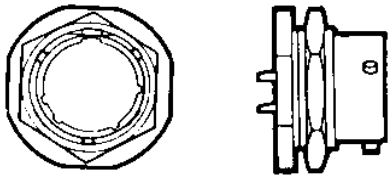
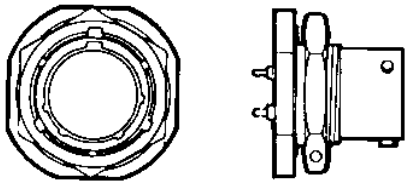
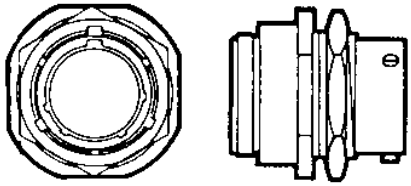
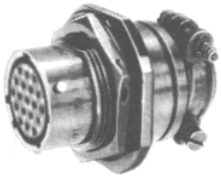
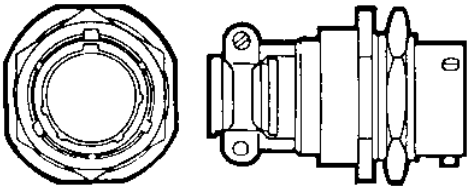
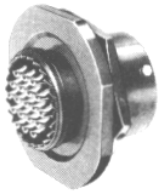
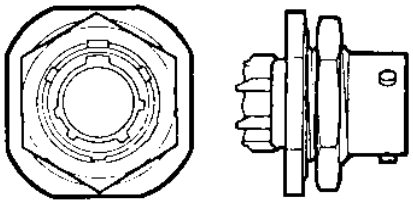
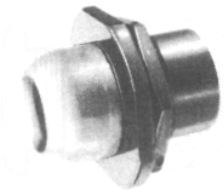
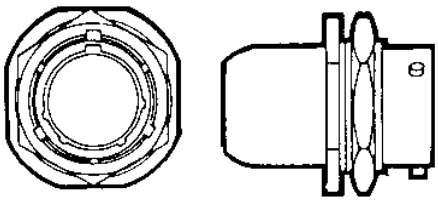
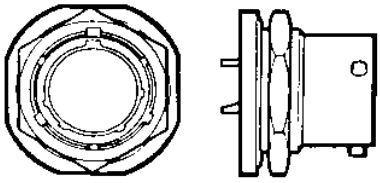
62GB-57A			23
62GB-57A (219)			23
62GB-14E			24
62GB-14F			24
62GB-57T			25
62GB-17P			25
62GB-17H Hermetic Seal			26

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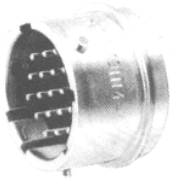
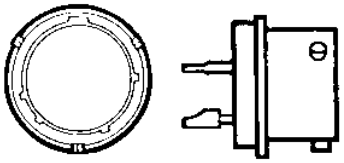
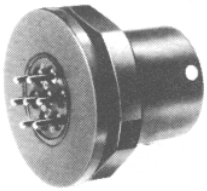
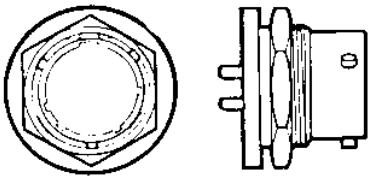
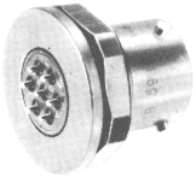
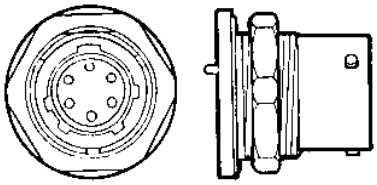
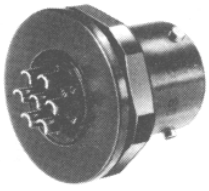
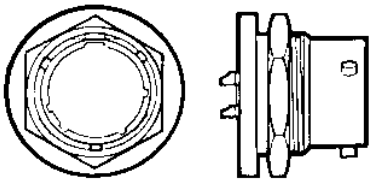
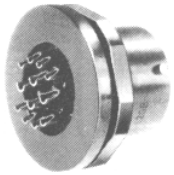
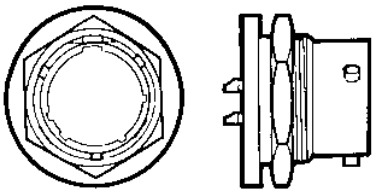
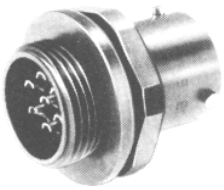
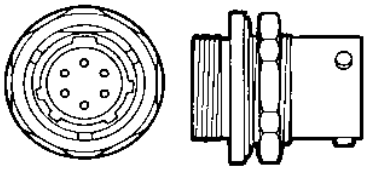
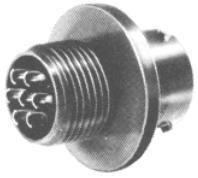
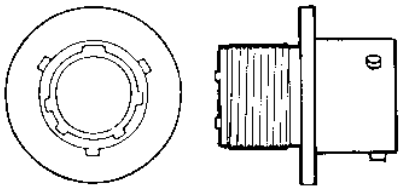
62GB-13H Hermetic Seal			26
62GB-5005-10			27
62GB-5036-10			27
62GB-5016-10			28
62GB-5024			28
62GB-5052			29
62GB-5030			29

Single Hole Fixing Receptacles

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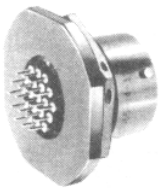
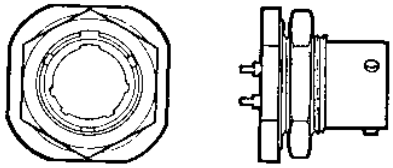
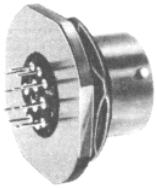
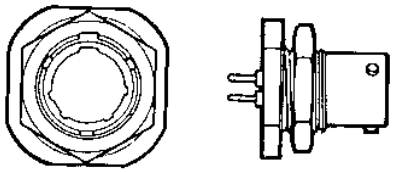
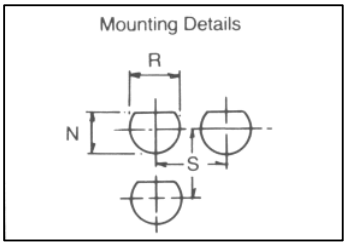
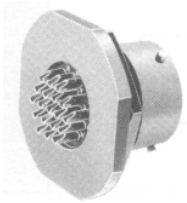
62GB-5065			30
62GB-5067			30

Single Hole Fixing Receptacles



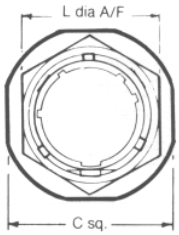
57A

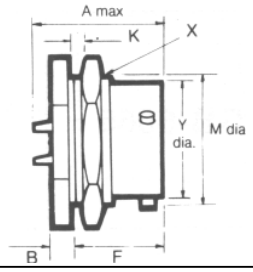


62GB-57A

BS9522 - F0017 - C2099

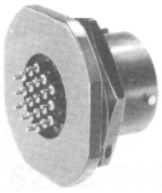
Single hole mounting with plain shell for direct wiring to exposed solder buckets. Has panel 'O' ring seal.





Shell Size	A max	B ± 0.005 (± 0.13)	C sq,	F ± 0.005 (±0.13)	K min	K max	L	M -0.005 (-0.13)	N ±.0.005 (±0.13)	R ± 0.005 (±0.13)	s min	Y	X Thread
08	0.978 24.84	0.117 2.97	0.942 23.93	0.706 17.93	0.062 1.58	0.125 3.18	0.750 19.05	0.527 13.3	0.540 13.72	0.572 14.53	1.250 31.75	0.473 12.03	9/16 - 24 NEF
10	0.978 24.84	0.117 2.97	1.067 27.10	0.706 17.93	0.062 1.58	0.125 3.18	0.875 22.23	0.652 16.56	0.665 16.89	0.697 17.70	1.359 34.52	0.590 14.99	11/16 -24 NEF
12	0.978 24.84	0.117 2.97	1.255 31.88	0.706 17.93	0.062 1.58	0.125 3.18	1.062 26.98	0.815 20.70	0.828 21.03	0 885 22.48	1 531 38.89	0.750 19.05	7/8 -20 UNEF
14	0.978 24.84	0.117 2.97	1.380 35.05	0.706 17.93	0.062 1.58	0.125 3.18	1.187 30.15	0.939 23.85	0.952 24.18	1.010 25.65	1.656 42.06	0.875 22.23	1 -20 UNEF
16	0.978 24.84	0.117 2.97	1.505 38.23	0.706 17.93	0.062 1.58	0.125 3.18	1 312 33.32	1.063 27.00	1.076 27.33	1.135 28.83	1.781 45.24	1.000 25.40	1.1/8 - 18 NEF
18	0.978 24.84	0.117 2.97	1.630 41.40	0.706 17.93	0.062 1.58	0.125 3.18	1.437 36.50	1.188 30.18	1.201 30.50	1.260 32.00	1.891 48 03	1.125 28.58	1.1/4 - 18 NEF
20	1.048 26.62	0.148 3.76	1.817 46.15	0.894 22.71	0.062 1.58	0.250 6.35	1.562 38.68	1.313 33.35	1.326 33.68	1.385 35.18	2.031 51.59	1.250 31.75	1.3/8 - 18NEF
22	1.048 26.62	0.148 3.76	1.942 49.33	0.894 22.71	0.062 1.58	0.250 6.35	1.687 42.85	1.438 36.53	1.451 36.86	1.510 38.35	2.156 54.76	1.375 34.93	1.1 /2 - 18 NEF
24	1.048 26.62	0.148 3.76	2.067 52.50	0.927 23.55	0.062 1.575	0.250 6.35	1 .812 46.05	1 .563 39.70	1.576 40.03	1 635 41.45	2 277 57.84	1.500 38.10	1.5/8 - 18 NEF

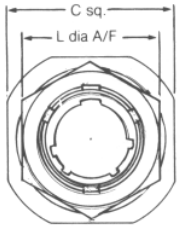
57A(219)

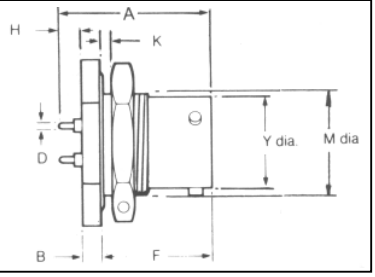


62GB-57A (219)

BS9522 - F0017- C2261

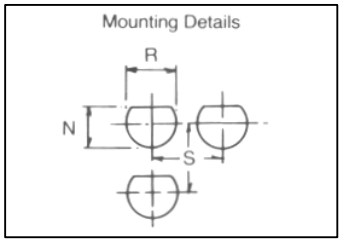
Single hole mounting with plain shell and film wire terminations



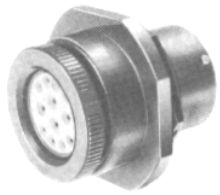


Shell Size	A m	B ±0.005 (± 0.13)	C sq. max.	max	D min	F ±0.005 (±0.13)	H max	H min	K min	K max	L	M -0.005 (-0.13)	N ±0.005 (±0.13)	R ±0.005 (±0.13)	S min	Y	X Thread
08	0.976 24.79	0.117 2.97	0.942 23.93	0.030 0.76	0.028 0.71	0.706 17.93	0.173 4.40	0.133 3.38	0.062 1.58	0.125 3.18	0.750 19.05	0.527 13.3	0.540 13.72	0.572 14.53	1.250 31.75	0.473 12.03	9/16 -24 NEF
10	0.976 24.79	0.117 2.97	1.067 23.93	0.030 0.76	0.028 0.71	0.706 17.93	0.173 4.40	0.133 3.38	0.062 1.58	0.125 3.18	0.875 22.23	0.652 16.56	0.665 16.89	0.697 17.70	1.359 34.52	0.590 14.99	11/16 -24 NEF
12	0.976 24.79	0.117 2.97	1.255 31.88	0.030 0.76	0.028 0.71	0.706 17.93	0.173 4.40	0.133 3.38	0.062 1.58	0.125 3.18	1.062 26.98	0.815 20.70	0.828 21.03	0.885 22.48	1.531 38.89	0.750 19.05	7/8 -20 UNEF
14	0.976 24.79	0.117 2.97	1.380 35.05	0.030 0.76	0.028 0.71	0.706 17.93	0.173 4.40	0.133 3.38	0.062 1.58	0.125 3.18	1.187 30.15	0.939 23.85	0.952 24.18	1.010 25.65	1.656 42.06	0.875 22.26	1 - 20 UNEF
16	0.976 24.79	0.117 2.97	1.505 38.23	0.030 0.76	0.028 0.71	0.706 17.93	0.173 4.40	0.133 3.38	0.062 1.58	0.125 3.18	1.312 33.32	1.063 27.00	1.076 27.33	1.135 28.83	1.781 45.24	1.000 25.40	1.1/8 - 18 NEF
18	0.976 24.79	0.117 2.97	1.630 41.40	0.030 0.76	0.028 0.71	0.706 17.93	0.173 4.40	0.133 3.38	0.062 1.58	0.125 3.18	1.437 36.50	1.188 30.18	1.201 30.50	1.260 32.00	1.891 48.03	1.125 28.58	1.1 /4 - 18 NEF
20	1 .195 30.35	0.148 3.76	1 817 46.15	0.030 0.76	0.028 0.71	0.894 22.71	0.173 4.40	0.133 3.38	0.062 1.58	0.250 6.35	1 562 38.68	1 .313 33.35	1 .326 35.18	1 .385 51 59	2.031 31.75	1 .250	1 .3/8 - 18 NEF
22	1.195 30.35	0.148 3.76	1.942 49.33	0.030 0.76	0.028 0.71	0.894 22.71	0.173 4.40	0.133 3.38	0.062 1.58	0.250 6.35	1.687 42.85	1.438 36.53	1.451 36.86	1.510 38.35	2.156 54.76	1.375 34.93	1.1/2 -18NEF
24	1.228 30.35	0.148 3.76	2.067 52.50	0.030 0.76	0.028 0.71	0.927 23.55	0.173 4.40	0.133 3.38	0.062 1.58	0.250 6.35	1.812 46.05	1.563 39.70	1.576 40.03	1.635 41.45	2.277 57.84	1.500 38.10	1.5/8 - 18 NEF

Single Hole Fixing Receptacles



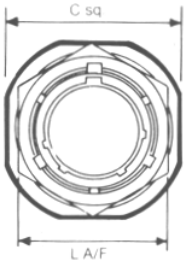
14E

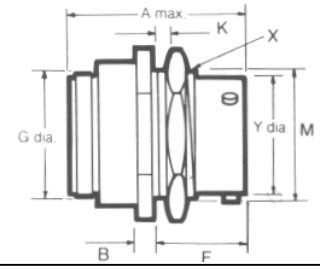


62GB-14E

MIL-C-26482 MS3114E
BS9522 - F0017
- C2098

Single hole mounting with grommet and grommet nut.
Has panel 'O' ring seal





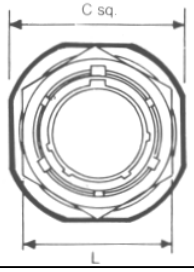
Shell Size	A max	B ±0.005 (±0.13)	C max sq.	F ±0.005 (±0.13)	G Dia Max	K min	K max	L	M -0.005 (-0.13)	N ±0.005 (±0.13)	R ±0.005 (±0.13)	S	Y	X Thread
08	1.344 34.14	0.117 2.97	0.942 23.93	0.706 17.93	0 713 18.11	0.062 1.58	0.125 3.18	0.750 19.05	0.527 13.3	0.540 13.72	0.572 14.53	1.250 31.75	0.473 12.03	9/16-24NEF
10	1.344 34.14	0.117 2.97	1.067 27.10	0.706 17.93	0.838 21.29	0.062 1.58	0.125 3.18	0.875 22.23	0.652 16.56	0.665 16.89	0.697 17.70	1.359 34.52	0.590 14.99	11/16 -24 NEF
12	1.344 34.14	0.117 2.97	1.255 31 .88	0.706 17.93	0.963 24.46	0.062 1.58	0.125 3.18	1.062 26.98	0.815 20.70	0.828 21.03	0.885 22.48	1.531 38.89	0.750 19.05	7/8 -20 UNEF
14	1 .344 34.14	0.117 2.97	1.380 35.05	0.706 17.93	1.088 27.63	0.062 1.58	0.125 3.18	1.187 30.15	0.939 23.85	0.952 24.18	1.010 25.65	1.656 42.06	0.875 22.23	1 - 20 UNEF
16	1.344 34.14	0.117 2.97	1.505 38.23	0.706 17.93	1.213 30.81	0.062 1.58	0.125 3.18	1.312 33.32	1.063 27.00	1.076 27.33	1.135 28.83	1.781 45.24	1.000 25.40	1.1/8 -18NEF
18	1.344 34.14	0.117 2.97	1.630 41.40	0.706 17.93	1.338 33.98	0.062 1.58	0.125 3.18	1.437 36.50	1.188 30.18	1.201 30.50	1.260 32.00	1.891 48.03	1.125 28.58	1.1/4 –18 NEF
20	1.576 40.03	0.148 3.76	1 817 46.15	0.894 22.71	1.463 37.16	0.062 1.58	0.250 6.35	1.562 38.68	1.313 33.35	1.326 33.68	1.385 35.18	2.031 51.59	1.250 31.75	1.3/8 - 18 NEF
22	1.576 40.03	0.148 3.76	1.942 49.33	0.894 22.71	1 .588 40.33	0.062 1.58	0.250 6.35	1.687 42.85	1.438 36.53	1.451 36.86	1.510 38.35	2.156 54.76	1.375 34.93	1.1 /2 - 18 NEF
24	1.609 40.87	0.148 3.76	2.067 52.50	0.927 23.55	1.713 43.51	0.062 1.58	0.250 6.35	1.812 46.05	1.563 39.70	1.576 40.03	1.635 41.45	2.277 57.84	1.500 38.10	1.5/8 - 18 NEF

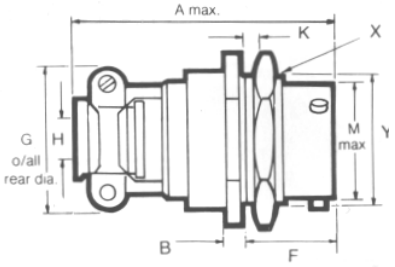
14F

62GB-1 4F

MIL-C-26482 MS3114F

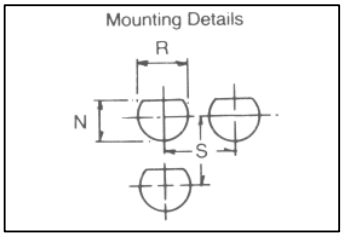
Single hole mounting with grommet and grommet nut fitted with integral strain relief clamp.
Has panel 'O' ring seal



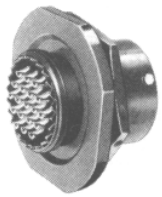


Shell Size	A max	B ±0.005 (±0.13)	C max sq.	F ±0.005 (±0.13)	G dia. max.	H 0.005 (± 0.13)	K min	K max	L	M -0.005 (-0.13)	N ±0.005 (±0.13)	R ±0.005 (±0.13)	S	Y	X Thread
08	1.762 44.75	0.117 2.97	0.942 23.93	0.706 17.93	0.828 21.03	0.156 3.96	0.062 1.58	0.125 3.18	0.750 19.05	0.527 13.3	0.540 13.72	0.572 14.53	1 250 31.75	0.473 12.03	9/16 -24 NEF
10	1.762 44.75	0.117 2.97	1.067 27.10	0.706 17.93	0.891 22.63	0.188 4.78	0.062 1.58	0.125 3.18	0.875 22.23	0.652 16.56	0.665 16.89	0.697 17.70	1.359 34.52	0.590 14.99	11/16 - 124 NEF
12	1.762 44 75	0.117 2.97	1.255 31.88	0.706 17.93	1.016 25.81	0.312 7.93	0.062 1.58	0.125 3.18	1.062 26.98	0.815 20.70	0.828 21.03	0.885 22.48	1.531 38.89	0.750 19.05	7/8 - 20 UNEF
14	1 .736 44.10	0.117 2.97	1.380 35.05	0.706 17.93	7.147 28.97	0.375 9.53	0.062 1.58	0.125 3.18	1.187 30.15	0.939 23.85	0.952 24.18	1.010 25.65	1.656 42.06	0.875 22.23	1 - 20 NEF
16	1.876 47.65	0.117 2.97	1.505 38.23	0.706 17.93	1.203 30.56	0.500 12.7	0.062 1.58	0.125 3.18	1.312 33.32	1.063 27.00	1.076 27.33	1.135 28.83	1.781 45.24	1.000 25.40	1.1/8 - 18 NEF
18	1.876 47.65	0.117 2.97	1.630 41.40	0.706 17.93	1.426 36.22	0.625 15.88	0.062 1.58	0.125 3.18	1.437 36.50	1.188 30.18	1.201 30.50	1.260 32.00	1.891 48.03	7.125 28.58	1.1/4 - 18 NEF
20	2.118 53.8	0.148 3. 76	1.817 46.15	0.894 22.71	1.426 36.22	0.625 15.88	0.062 1.58	0.250 6.35	1.562 38 68	1.313 33.35	1.326 33.68	1.385 35.18	2.031 51 .59	1.250 31.75	1.3/8 - 18 NEF
22	2.118 53.8	0.148 3.76	1.942 49.33	0.894 22.71	7.567 39.80	0.750 19.05	0.062 1.58	0.250 6.35	1.687 42.85	1.438 36.53	1.451 36.86	1.510 38.35	2.756 54.76	1.375 34.93	1.1/2 -18 NEE
24	2.250 57.15	0.148 3.76	2.067 52.50	0.927 23.55	1.735 44.07	0.800 20.32	0.062 1.58	0.250 6.35	1.812 46.05	1.563 39.70	1.576 40.03	1.635 41.45	2.277 57.84	1.500 38.10	1.5/8 - 18 NEF

Single Hole Fixing Receptacles



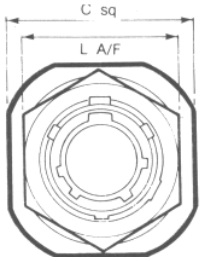
57T

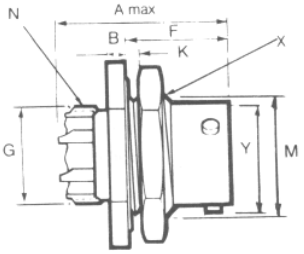


62G B-57T

BS9522 - F0017 - C2100

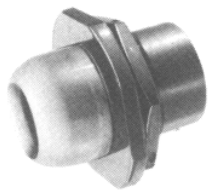
Single hole mounting with threaded shell to accept accessories





Shell Size	A max	B ± 0.005 (± 0.13)	c max. sq.	F ± 0.005 (±0.13)	G dia, max.	K min	K max	L	M -0.005 (- 0.13)	N	Y	X Thread
08	0.978 24.84	0.117 2.97	0.942 23.93	0.595 15.12	0.426 10.82	0.062 1.58	0.125 3.18	0.750 19.05	0.527 13.3	7/16 - UNEF	0.473 12.03	9/16 - 24 NEF
10	0.978 24.84	0.117 2.97	1.067 27.10	0.595 15.12	0.552 14.02	0.062 1.58	0.125 3.18	0.875 22.23	0.652 16.56	9/16 – UNEF	0.590 14.99	11/16 – 24 NEF
12	0.978 24.84	0.117 2.97	1.255 31 .88	0.595 15.12	0.677 17.20	0.062 1.58	0.125 3.18	1.062 26.98	0.815 20.70	11/16 – UNEF	0.750 19.05	7/8 – 20 UNEF
14	0.978 24.84	0.117 2.97	1.380 35.05	0.595 15.12	0.802 20.37	0.062 1.58	0.125 3.18	1.187 30.15	0.939 23.85	13/16 - UNEF	0.875 22.23	1 – 20 UNEF
16	0.978 24.84	0.117 2.97	1.505 38.23	0.595 15.12	0.927 23.55	0.062 1.58	0.125 3.18	1.312 33.32	1.063 27.00	15/16 – UNEF	1.000 25.40	1.1/18 – 18 NEF
18	0.978 24.84	0.117 2.98	1.630 41.40	0.595 15.12	1.052 26.72	0.062 1.58	0.125 3.18	1.437 36.50	1.188 30.18	1.1/16 – UNEF	1.125 28.58	1.1/4 – 18 NEF
20	1.048 26.62	0.148 3.76	1.817 46.15	0.720 18.29	1.167 29.65	0.062 1 58	0.250 6.35	1.562 38.68	1.313 33.35	1.3/16 – UNEF	1.250 31.75	1.3/8 - 18 NEF
22	1.048 26,62	0.148 3.76	1.942 49.33	0.720 18.29	1.292 32.82	0.062 1.58	0.250 6.35	1.687 42.85	1.438 36.53	1.5/16 – UNEF	1.375 34.93	1.1/2 – 18 NEF
24	1.048 26.62	0.148 3.76	2.067 52.50	0.753 19.13	1.416 35.97	0.062 1.58	0.250 6.35	1.812 46.05	1.563 39.70	1.7/16 - UNEF	1.50 38.10	1.5/8 - 18 NEF

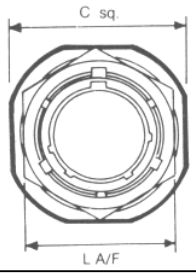
17P

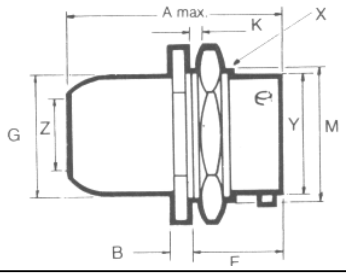


62GB-17P

MIL-C-26482 MS3114P

Single hole mounting for potting. Supplied complete with potting mould locating ring and panel 'O' ring seal

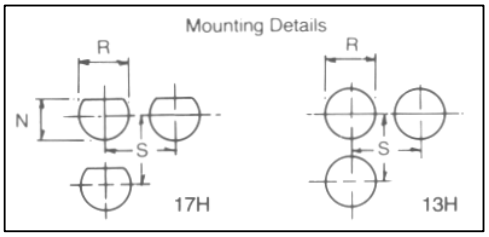




Shell Size	A max.	B ±0.005 (±0.13)	C max. sq.	F ± 0.005 (±0.13)	G	K min	K max	L	M -0.005 (-0.13)	N ±0.005 (±0.13)	R ±0.005 (±0.13)	Y	Z	X Thread
08	1.391 35.33	0.117 2.97	0.942 23.93	0.706 17.93	0.572 14.53	0.062 1.58	0.125 3.175	0.750 19.05	0.527 13.3	0.540 13.72	0.572 14.53	1.250 31.75	0.473 12.03	0.260 6.60	9/16 -24 NEF
10	1.391 35.33	0.117 2.97	1.067 27.10	0.706 17.93	0.666 16.92	0.062 1.58	0.125 3.18	0.875 22.23	0.652 16.56	0.665 16.89	0.697 17.70	1.359 34.52	0.590 14.99	0.463 11.76	11/16 -24 NEF
12	1.391 35.33	0.117 2.97	1.255 31.88	0.706 17.93	0.822 20.88	0.062 1.58	0.125 3.18	1.062 26.98	0.815 20.70	0.828 21.03	0.885 22.48	1.531 38.89	0.750 19.05	0.557 14.15	7/8 - 20 UNEF
14	1.391 35.33	0.117 2.97	1.380 35.05	0.706 17.93	0.907 23.06	0.062 1.58	0.125 3.18	1.187 30.15	0.939 23.85	0.952 24.18	1.010 25.65	1.656 42.06	0.875 22.23	0.590 14.99	1 - 20 UNEF
16	1.391 35.33	0.117 2.97	1.505 38.23	0.706 17.93	1.040 26.42	0.062 1.58	0.125 3.18	1.312 33.32	1 063 27.00	1 .076 27.33	1.135 28.83	1.781 45.24	1.000 25.40	0.713 18.11	1.1/18 – 18 NEF
18	1.391 35.33	0.117 2.97	1.630 41.40	0.706 17.93	1.165 29.59	0.062 1.58	0.125 3.175	1.437 36.50	1.188 30.18	1.201 30.50	1.260 32.00	1.891 48.03	1.125 28.58	0.835 21.21	1.1/4 - 18 NEF
20	1.641 41.68	0.148 3.76	1.817 46.15	0.894 22.71	1.285 32.64	0.062 1.58	0.250 6.35	1.562 38.68	1.313 33.35	1.326 33.68	1.385 35.18	2.031 51.59	1.250 31.75	1.015 25.78	1.3/8 –18 NEF
22	1.641 41.68	0.148 3.76	1.942 49.33	0.894 22.71	1.400 35.56	0.062 1.58	0.250 6.35	1.687 42.85	1.438 36.53	1.451 36.86	1.510 38.35	2.156 54.76	1.375 34.93	1.015 25.78	1.1/2 –18 NEF
24	1.674 42.52	0.148 3.76	2.067 52.50	0.927 23.55	1 .540 39.12	0.062 1.58	0.250 6.35	1.812 46.05	1 .563 39.70	1.576 40.03	1.635 41.45	2.277 57.84	1.500 38.10	1.265 32.13	1.5/8 - 18 NEF

Single Hole Fixing Receptacles

Hermetic Seal

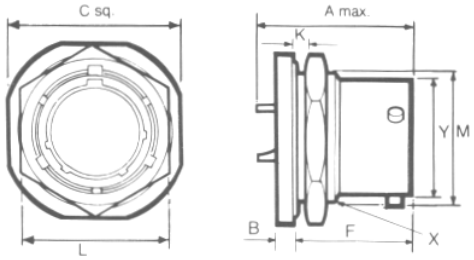


17H

62GB-17H

MIL-C-26482 MS3114H

Single hole mounting with pin contacts in one piece glass-to-metal seal. Exposed solder buckets or flattened and pierced pins.
Has panel 'O' ring seal



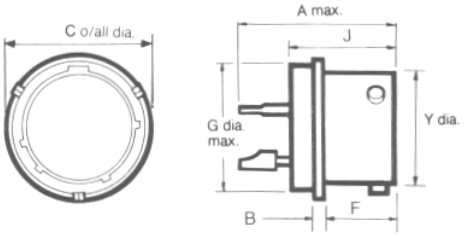
Shell Size	A max.	B ±0.005 (±0.13)	C max. sq	F ±0.005 (±0.13)	min	K max	L	M -0.005 (-0.13)	N ±0.005 (±0.13)	R ±0.005 (±0.13)	S	Y	X Thread
08	0.828 21.03	0.094 2.39	0.942 23.93	0.706 17.93	0.062 1.57	0.125 3.18	0.750 19.05	0.527 13.39	0.540 13.72	0.572 14.53	1.250 31.75	0.473 12.01	9/16 - 24 NEF
10	0.828 21.03	0.094 2.39	1.067 27.10	0.706 17.93	0.062 1.57	0.125 3.18	0.875 22.23	0.652 16.56	0.665 16.89	0.697 17.70	1.359 34.52	0.590 14.99	11/16 – 24 NEF
12	0.828 21.03	0.094 2.39	1.255 31.88	0.706 17.93	0.062 1.57	0.125 3.18	1.062 26.97	0.815 20.70	0.828 21.03	0.885 22.48	1.531 38.89	0.750 19.05	7/8 – 20 UNEF
14	0.828 21.03	0.094 2.39	1.380 35.05	0.706 17.93	0.062 1.57	0.125 3.18	1.187 30.15	0.939 23.85	0.952 24.18	1.010 25.65	1.656 42.06	0.875 22.23	1 - 20 UNEF
16	0.828 21.03	0.094 2.39	1.505 38.23	0.706 17.93	0.062 1.57	0.125 3.18	1.312 33.32	1.063 27.00	1.076 27.33	1.135 28.53	1.781 45.24	1.000 25.40	1.1/8 – 18 NEF
18	0.828 21.03	0.094 2.39	1.630 41.40	0.706 17.93	0.062 1.57	0.125 3.18	1.437 36.50	1.188 30.18	1.201 30.51	1.260 32.00	1.891 48.03	1.125 28.58	1.1/4 – 18 NEF
20	0.828 21.03	0.125 3.18	1.817 46.15	0.894 22.71	0.062 1.57	0.250 6.35	1.562 39.67	1.313 33.35	1.326 33.68	1.385 35.18	2.031 51.59	1.250 30.75	1.3/8 – 18 NEF
22	0.890 22.61	0.125 3.18	1.942 49.33	0.894 22.71	0.062 1.57	0.250 6.35	1.687 42.85	1.438 36.53	1.451 36.86	1.510 38.35	2.156 54.76	1.375 34.93	1.1/2 – 18 NEF
24	0.890 22.61	0.125 3.18	2.067 52.50	0.927 23.55	0.062 1.57	0.250 6.35	1.812 46.02	1.563 39.70	1.576 40.03	1.635 41.53	2.277 57.84	1.500 38.10	1.5/8 – 18 NEF

13H

62GB-1 3H

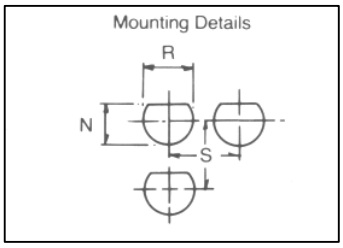
MIL-C-26482 MS3113H

Solder mounting with plain shell and exposed solder buckets or flattened and pierced pins

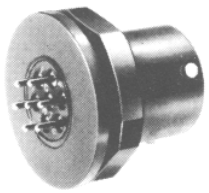


Shell Size	A max	B ±0.005 (± 0.13)	c max	F ±0.005 (± 0.13)	G max	J max	R ±0.005 (± 0.13)	S min	Y dia. max
08	0.828 21.03	0.036 0.91	0.630 16.00	0.426 10.82	0.562 14.27	0.592 15.04	0.578 14.68	1.250 31.75	0.473 12.01
10	0.828 21.03	0.036 0.91	0.755 19.18	0.426 10.82	0.672 17.07	0.592 15.04	0.687 17.45	1.359 34.52	0.590 14.99
12	0.828 21.03	0.036 0.91	0.849 21.56	0.426 10.82	0.781 19.84	0.592 15.04	0.797 20.24	1.531 38.89	0.750 19.05
14	0.828 21.03	0.036 0.91	0.974 24.74	0.426 10.82	0.906 23.01	0.592 15.04	0.922 23.42	1.656 42.06	0.875 22.23
16	0.828 21.03	0.036 0.91	1.099 27.91	0.426 10.82	1.031 26.19	0.592 15.04	1.047 26.59	1.781 45.24	1.000 25.40
18	0.828 21.03	0.036 0.91	1.223 31.06	0.426 10.82	1.156 29.36	0.592 15.04	1.172 29.77	1.891 48.03	1.125 28.58
20	0.890 22.61	0.036 0.91	1.317 33.45	0.488 12.40	1.250 31.75	0.658 16.70	1.266 32.16	2.031 51.59	1.250 30.75
22	0.890 22.61	0.036 0.91	1.443 36.65	0.488 12.40	1.375 34.93	0.686 17.42	1.390 35.31	2.156 54.76	1.375 34.93
24	0.890 22.61	0.036 0.91	1.567 39.80	0.521 13.23	1.500 38.10	0.719 18.26	1.516 38.51	2.277 57.84	1.500 38.10

Single Hole Fixing Receptacles



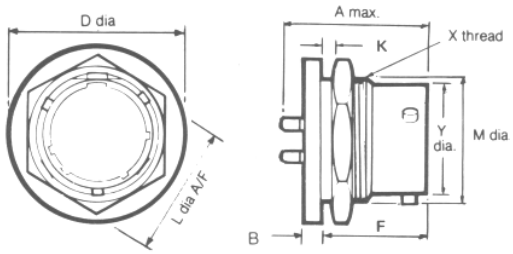
5005



62GB-5005-10
(RSRE SD/C 235025/X)

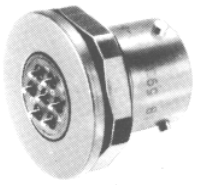
Single hole mounting plain shell with PC pin terminated contacts. Reduced diameter flange with panel 'O' seal

Size 10 only



	A max	B +0.001 -0.002 (+0.03) (-0.03)	D dia. max	F +0.002 -0.003 (+0.05) (-0.08)	K min	K max	M -0.005 (-0.13)	N ±0.003 (±0.08)	R +0.005 (+0.13)	S	Y dia. max.	X Thread	L dia
10	0.877 22.28	0.065 1.65	0.880 22.35	0.681 17.29	0.062 1.58	0.125 3.18	0.655 16.64	0.659 16.74	0.690 17.52	1.017 25.83	0.590 14.99	11/16 – 24 NEF	0.820 20.83

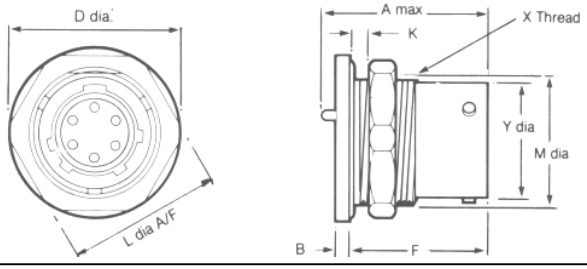
5036



62GB-5036-10
(RSRE SD/C235025/X)

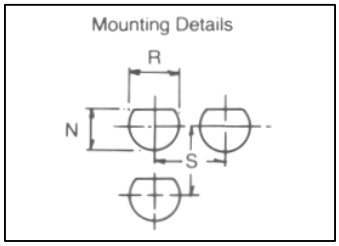
Single hole mounting with circular flange and P.C. terminations

Size 10 only

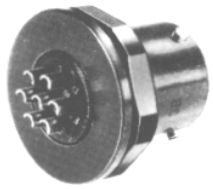


Shell Size	A max	B +0.001 -0.002 (+0.03) (-0.05)	D dia. max	F +0.002 -0.003 (+0.05) (-0.08)	Y dia. max.	K min	K max	M -0.005 (-0.13)	N ±0.003 (±0.08)	R +0.005 (+0.13)	S	X Thread	L dia
10	0.829 21.06	0.066 1.67	0.880 22.35	0.679 17.25	0.590 14.99	0.062 1.57	0.125 3.18	0.655 16.63	0.659 16.47	0.690 17.52	1.017 25.83	11/16 – 24 NEF	0.820 20.83

Single Hole Fixing Receptacles



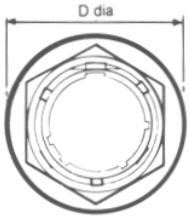
5016

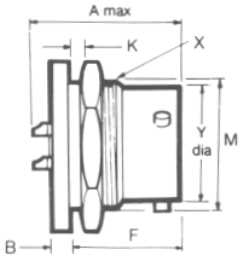


62GB-5016-10
(RSRE SD/C 235025/X)

Single hole mounting plain shell for direct wiring to exposed solder buckets. Reduced diameter flange with panel 'O' ring seal

Solder bucket: Size 10 only





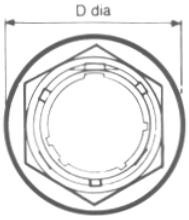
Shell Size	A max	B +0.002 -0.001 (+0.05) (-0.03)	D dia. max	F + 0.003 - 0.002 (+ 0.08) (- 0.05)	K min	K max	M - 0.010 (- 0.25)	N ± 0.005 (± 0.13)	R + 0.005 (+ 0.13)	S	Y dia. max.	X Thread
10	0.902 22.91	0.064 1.62	0.880 22.35	0.678 17.21	0.062 1.58	0.125 3.18	0.655 16.63	0.665 16.89	0.697 17.70	1.359 34.52	0.590 14.99	11/16 – 24 NEF

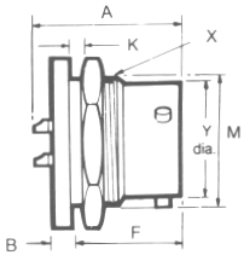
5024

62GB-5024
(RSRE SD/C 35077/X)

Single hole mounting plain shell for direct wiring to exposed solder buckets. Reduced diameter flange with panel 'O' ring seal

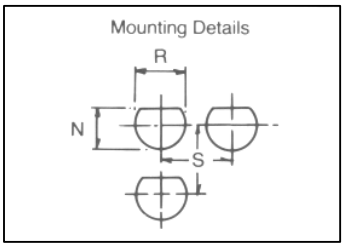
Solder buckets: Size 8, 12 and 14 only



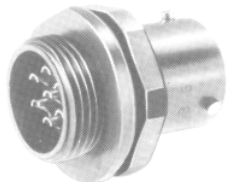


Shell Size	A max	B ± 0.005 (± 0.13)	D dia. max	F ± 0.005 (± 0.13)	K min	K max	M - 0.005 (- 0.13)	N ± 0.005 (± 0.13)	R ±0.005 (± 0.13)	S min	Y dia. max	X Thread
08	0.978 24.84	0.117 2.97	0.830 21.08	0.706 17.93	0.062 1.58	0.125 3.18	0.527 13.3	0.540 13.72	0.572 14.53	1.250 31.75	0.473 12.03	9/16 - 24 NEF
12	0.978 24.84	0.117 2.97	1.130 28.70	0.706 17.93	0.062 1.58	0.125 3.18	0.815 20.70	0.828 21.03	0.885 22.48	1.531 38.89	0.750 19.05	7/8 - 20 UNEF
14	0.978 24.84	0.117 2.97	1.260 32.00	0.706 17.93	0.062 1.58	0.125 3.18	0.939 23.85	0.952 24.18	1.010 25.65	1.656 42.06	0.875 22.23	1 -20 UNEF

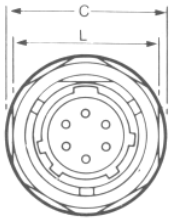
Single Hole Fixing Receptacles

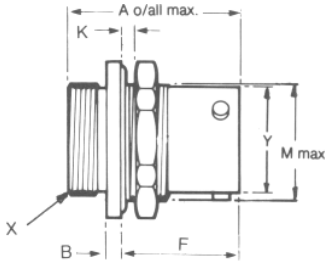


5052



62GB-5052-10



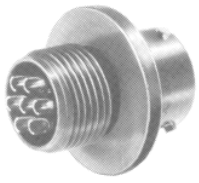


Single hole fixing with circular flange and back end thread - solder termination

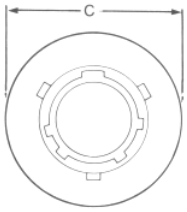
Size 10 only

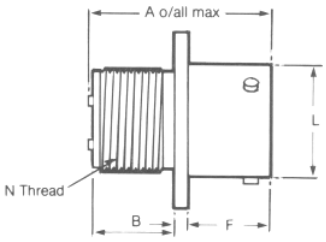
Shell Size	A max	B (± 0.05) (± 0.03)	C max. sq.	F + 0.003 - 0.002 (+ 0.08) (- 0.05)	K min	K max	L	M - 0.005 (- 0.13)	N ± 0.005 (± 0.13)	R ± 0.005 (± 0.13)	S ± 0.005 (± 0.13)	X Thread
10	0.947 24.06	0.062 1.58	0.880 22.35	0.677 17.19	0.062 1.58	0.125 3.18	0.820 20.83	0.650 16.51	5/8 – 24 UNEF	0.697 17.70	1.359 34.52	5/8 – 24 NEF

5030



62GB-5030

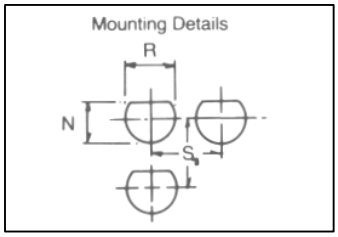




Bulkhead mounting receptacle with solder terminations

Shell Size	A max	B ± 0.005 (± 0.13)	C ± 0.010 (± 0.25)	F ± 0.005 (± 0.13)	L	N Thread
08	0.978 24.85	0.094 2.39	0.812 20.63	0.415 10.54	0.563 14.30	7/16 - 28 UNEF
10	0.978 24.85	0.094 2.39	0.937 23.80	0.415 10.54	0.680 17.28	9/16 - 24 NEF
12	0.978 24.85	0.094 2.39	1.031 26.19	0.415 10.54	0.859 21.82	11 /16 - 24 NEF
14	0.978 24.85	0.094 2.39	1.125 28.58	0.415 10.54	0.984 25.00	13/16 - 20 UNEF
16	0.978 24.85	0.094 2.39	1.218 30.94	0.415 10.54	1.108 28.15	15/16 - 20 UNEF
18	0.978 24.85	0.094 2.39	1.3121 33.33	0.415 10.54	1.233 31.32	1.1/16 - 18NEF
20	1.048 26.62	0.102 2.59	1.437 36.50	0.535 13.59	1.358 34.50	1.3/16 -18NEF
22	1.048 26.62	0.102 2.59	1.562 39.68	0.535 13.59	1.483 37.67	1.5/16 - 18 NEF
24	1.048 26.62	0.102 2.59	1.687 42.85	0.572 14.53	1.610 40.90	1.7/16 - 18 NEF

Single Hole Fixing Receptacles

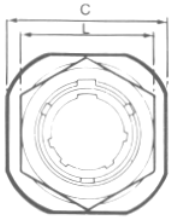


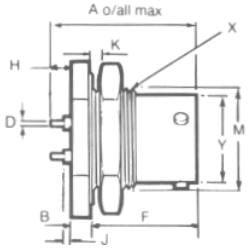
5065

62G B-5065

BS9522-F0017 C2261

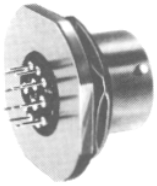
Single hole mounting with plain shell and film wire terminations





Shell Size	A max	B ± 0.005 (± 0.13)	C sq.	D max	D min	F ± 0.005 (± 0.13)	H max	H min	J ± 0.020 (± 0.51)	K min	K max	L	M -0.005 (-0.13)	N ±0.005 (±0.13)	R ±0.005 (±0.13)	S	Y	X Thread
08	1.021	0.117	0.942	0.030	0.028	0.706	0.218	0.178	0.060	0.062	0.125	0.750	0.527	0.540	0.572	1 250	0.473	9/16 - 24 NEF
	25.94	2.97	23.93	0.76	0.71	17.93	5.54	4.52	1.52	1.58	3.18	19.05	13.3	13.72	14.53	31.75	12.03	
10	1.021	0.117	1.067	0.030	0.028	0.706	0.218	0.178	0.060	0.062	0.125	0.875	0.652	0.665	0.697	1.359	0.590	11/16 - 24 NEF
	25.94	2.97	27.10	0.76	0.71	17.93	5.54	4.52	1.52	1.58	3.18	22.23	16.56	16.89	17.70	34.52	14.99	
12	1.021	0.117	1.255	0.030	0.028	0.706	0.218	0.178	0.060	0.062	0.125	1.062	0.815	0.828	0.885	1.531	0.750	7/8 - 20 UNEF
	25.94	2.97	31.88	0.76	0.71	17.93	5.54	4.52	1.52	1.58	3.18	26.98	20.70	21.03	22.48	38.89	19.05	
14	1.021	0.117	1.380	0.030	0.028	0.706	0.218	0.178	0.060	0.062	0.125	1.187	0.939	0.952	1.010	1.656	0.875	1 - 20 UNEF
	25.94	2.97	35.05	0.76	0.71	17.93	5.54	4.52	1.52	1.58	3.18	30.15	23.85	24.18	25.65	42.06	22.23	
16	1.021	0.117	1.505	0.030	0.028	0.706	0.218	0.178	0.060	0.062	0.125	1.312	1.063	1.076	1.135	1.781	1.000	1.1/8 - 18 NEF
	25.94	2.97	38.23	0.76	0.71	17.93	5.54	4.52	1 .52	1.58	3.18	33.32	27.00	27.33	28.83	45 24	25.40	
18	1.021	0.117	1.630	0.030	0.028	0.706	0.218	0.178	0.060	0.062	0.125	1.437	1.188	1.201	1.260	1.891	1.125	1.1 /4 - 18 NEF
	25.94	2.97	41.40	0.76	0.71	17.93	5.54	4.52	1.52	1.58	3.18	36.50	30.18	30.50	32.00	48.03	28.58	
20	1.240	0.148	1.817	0.030	0.028	0.894	0.218	0.178	0.060	0.062	0.250	1.562	1.313	1.326	1.385	2.031	1 .250	1.3/8 - 18 NEF
	31.50	3.76	46.15	0.76	0.71	22.71	5.54	4.52	1.52	1.58	6.35	38.68	33.35	33.68	35.18	51.59	31.75	
22	1.240	0.148	1942	0.030	0.028	0.894	0.218	0.178	0.060	0.062	0.250	1.687	1.438	1.451	1.510	2.156	1.375	1.1/2 - 18 NEF
	31 .50	3.76	49.33	0.76	0.71	22.71	5.54	4.52	1 .52	1.58	6.35	42.85	36.53	36.855	38.35	54.76	34.93	
24	1.273	0.148	2.067	0.030	0.028	0.927	0.218	0.178	0.060	0.062	0.250	1.812	1.563	1.576	1.635	2.277	1 .500	1.5/8 - 18 NEF
	32.34	3.76	52.50	0.76	0.71	23.55	5.54	4.52	1.52	1.58	6.35	46.05	39.70	40.03	41.45	57.84	38.10	

5067



62GB-5067

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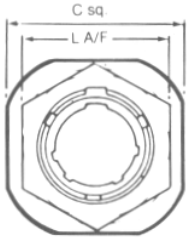
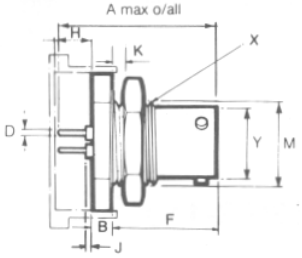
Single hole mounting with plain shell and film wire terminations

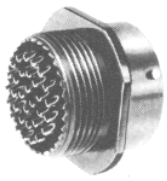
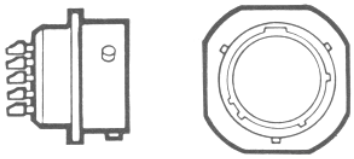
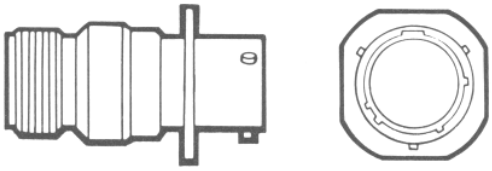
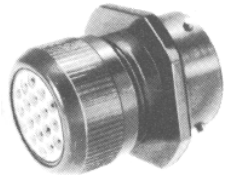
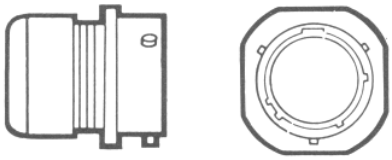
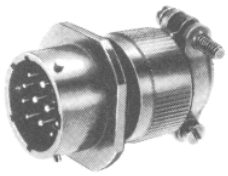
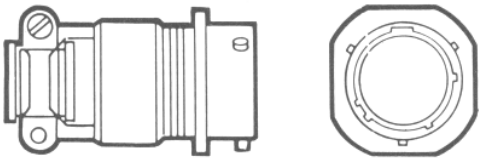
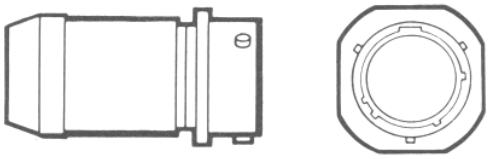
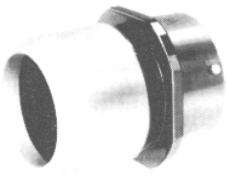
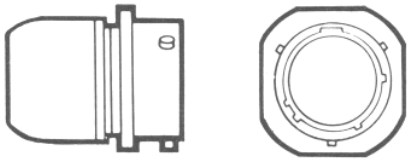




Shell Size	A max	B ± 0.005 (± 0.13)	C max sq	D max	D min	F ± 0.005 (± 0.13)	H max	H min	J ± 0.012 (± 0.30)	K min	K max	L	M -0.005 (-0.13)	N ±0.005 (±0.13)	R ±0.005 (±0.13)	S	Y	X Thread
08	1.095	0.117	0.942	0.030	0.028	0.706	0.262	0.230	0.049	0.062	0.125	0.750	0.527	0.540	0.572	1.250	0.473	9/16 - 24 NEF
	27.81	2.97	23.93	0.76	0.71	17.93	6.66	5.85	1.24	1.58	3.18	19.05	13.3	13.72	14.53	31.75	12.03	
10	1.095	0.117	1.067	0.030	0.028	0.706	0.262	0.230	0.049	0.062	0.125	0.875	0.652	0.665	0.697	1.359	0.590	11/16 - 24 NEF
	27.81	2.97	27.10	0.76	0.71	17.93	6.66	5.85	1.24	1.58	3.18	22.23	16.56	16.89	17.70	34.52	14.99	
12	1.095	0.117	1.255	0.030	0.028	0.706	0.262	0.230	0.049	0.062	0.125	1.062	0.815	0.828	0.885	1.531	0.750	7/8 - 20 UNEF
	27.81	2.97	31.88	0.76	0.71	17.93	6.66	5.85	1.24	1.58	3.18	26.98	20.70	21.03	22.50	38.89	19.05	
14	1.095	0.117	1.380	0.030	0.028	0.706	0.262	0.230	0.049	0.062	0.125	1.187	0.939	0.952	1.010	1.656	0.875	1 - 20 UNEF
	27.81	2.97	35.10	0.76	0.71	17.93	6.66	5.85	1.24	1.58	3.18	30.15	23.85	24.18	25.65	42.06	22.23	
16	1.095	0.117	1.505	0.030	0.028	0.706	0.262	0.230	0.049	0.062	0.125	1.312	1.063	1.076	1.135	1.781	1.000	1.1/8 -18 NEF
	27.81	2.97	38.23	0.76	0.71	17.93	6.66	5.85	1.24	1.58	3.18	33.23	27.00	27.33	28.83	45.24	25.40	
18	1.095	0.117	1.630	0.030	0.028	0.706	0.262	0.230	0.049	0.062	0.125	1.437	1.188	1.201	1.260	1.891	1.125	1.1 /4 - 18 NEF
	27.81	2.97	41.40	0.76	0.71	17.93	6.66	5.85	1.24	1.58	3.18	36.50	30.18	30.51	32.00	48.03	28.58	
20	1.309	0.148	1.817	0.030	0.028	0.894	0.262	0.230	0.049	0.062	0.250	1.562	1.313	1.326	1.385	2.031	1 .250	1.3/8 -18 NEF
	33.24	3.76	46.15	0.76	0.71	22.71	6.66	5.85	1.24	1.58	6.35	38.68	33.35	33.68	35.18	51.59	31.75	
22	1.309	0.148	1.942	0.030	0.028	0.894	0.262	0.230	0.049	0.062	0250	1.687	1.438	1.451	1.510	2.156	1.375	1.1/2 -18 NEF
	33.24	3.76	49.33	0.76	0.71	22.71	6.66	5.85	1.24	1.58	6.35	42.85	36.53	36.86	38.35	54.76	34.93	
24	1.342	0.148	2.067	0.030	0.028	0.927	0.262	0.230	0.049	0.062	0.250	1.812	1.563	1.576	1.635	2.277	1.500	1.5/8 -18 NEF
	34.08	3.76	52.50	0.76	0.71	23.55	6.66	5.85	1.24	1.58	6.35	46.03	39.07	40.03	41.59	57.84	38.10	

Cable Mounting Receptacles

Table of Styles

			Page No.
62GB-51T			32
62GB-11A			32
62GB-11E			33
62GB-11F			33
62GB-11J			34
62GB-11P			34

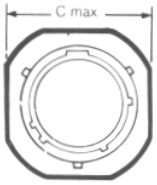
Cable Mounting Receptacles

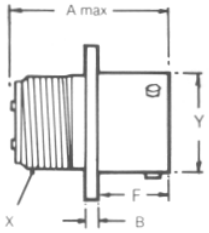
51T

62GB-51T

BS9522-F0017-C2101

Basic cable mounting receptacle with threaded shell to accept standard cable accessories.



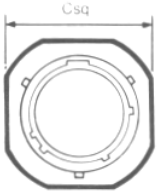


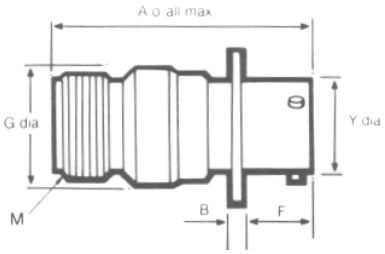
Shell Size	A max	B ± 0.005 (± 0.13)	C max sq	F ± 0.005 (± 0.13)	Y dia max	X Thread
08	0.978 24.84	0.094 2.39	0.817 20.75	0.415 10.54	0.473 12.03	7/16 - 28 UNEF
10	0.978 24.84	0.094 2.39	0.942 23.93	0.415 10.54	0.590 14.99	9/16 - 24 NEF
12	0.978 24.84	0.094 2.39	1.036 26.32	0.415 10.54	0.750 19.05	11 /16 - 24 NEF
14	0.978 24.84	0.094 2.39	1.130 28.70	0.415 10.54	0.875 22.23	13/16 - 20 UNEF
16	0.978 24.84	0 094 2.39	1.223 31.07	0.415 10.54	1.000 25.40	15/16 - 20 UNEF
18	0.978 24.84	0.094 2.39	1.317 33.45	0.415 10.54	1.125 28.58	1.1/16 -18 NEF
20	1.048 26 62	0.102 2.59	1.442 36.63	0.535 13.59	1.250 31.75	1 .3/16 -18 NEF
22	1.048 26.62	0.102 2.59	1.567 39.80	0.535 13.59	1.375 34.93	1.5/16 -18 NEF
24	1.048 26.62	0.102 2.59	1.692 42.98	0.560 / 0.574 14.23 / 14.58	1.500 38.10	1.7/16 -18 NEF

11A

62GB-11A

Cable mounting receptacle with general duty back shell. No grommet supplied.





Shell Size	A max	B ± 0 005 (± 0.13)	C max sq	F ± 0.005 (± 0.13)	G dia max	Y Dia max	M Thread
08	1.624 41.25	0.094 2.39	0.817 20.75	0.415 10.54	0.561 14.25	0.473 12.03	1/2 - 28 UNEF
10	1 .624 41.25	0.094 2.39	0.942 23.93	0.415 10.54	0.686 17.43	0.590 14.99	5/8 - 24 NEF
12	1.624 41.25	0.094 2.39	1.036 26.32	0.415 10.54	0.811 20.60	0.750 19.05	3/4 - 20 UNEF
14	1.624 41.25	0.094 2.39	1.130 28.70	0.415 10.54	0.936 23.78	0.875 22.23	7/8 - 20 UNEF
16	1.624 41.25	0.094 2.39	1.223 31.07	0.415 10 54	1.061 26.95	1.000 25.40	1 – 20 UNEF
18	1.624 41.25	0.094 2.39	1.317 33.45	0.415 10.54	1.186 30.13	1.125 28.58	1.3/16 – 18 NEF
20	1.687 42.85	0 104 / 0.100 2.64 / 2.55	1.442 36.63	0.535 13.59	1.311 33.30	1.250 31.75	1 3/16 -18 NEF
22	1.687 42.85	0.104 / 0.100 2.64 / 2.55	1.567 39.80	0.535 13.59	1.436 36.75	1.375 34.93	1.7/16 -18 NEF
24	1.730 43.94	0.104 / 0.100 2.64 / 2.55	1.692 42.98	0.569 / 0.574 14.45 / 14.58	1.561 39.65	1.500 38.10	1.7/16 -18 NEF

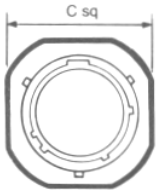
Cable Mounting Receptacles

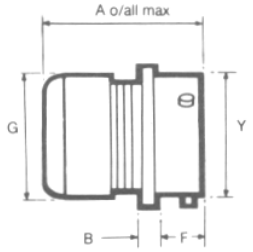
11E

62GB-11E

MIL-C-26482 MS3111E

Cable mounting receptacle with grommet and grommet nut





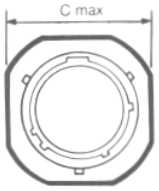
Shell Size	A max	B ± 0.005 (± 0.13)	C max sq	F ± 0.005 (± 0.13)	G dia max	Y dia max
08	1.281	0.094	0.817	0.415	0.561	0.473
	32.54	2.39	20.75	10.54	14.25	12.03
10	1.281	0.094	0.942	0.415	0.686	0.590
	32.54	2.39	23.93	10.54	17.43	14.99
12	1.281	0.094	1.036	0.415	0.811	0.750
	32.54	2.39	26.32	10.54	20.60	19.05
14	1.281	0.094	1.130	0.415	0.936	0.875
	32.54	2.39	28.70	10.54	23.78	22.23
16	1.281	0.094	1.223	0.415	1.061	1.000
	32.54	2.39	31.07	10.54	26.95	25.40
18	1.281	0.094	1.317	0.415	1.186	1.125
	32.54	2.39	33.45	10.54	3013	28.58
20	1.383	0.102	1.442	0.535	1.311	1.250
	35.13	2.59	36.63	13.59	33.30	31.75
22	1.383	0.102	1.567	0.535	1.436	1.375
	35.13	2.59	39.80	13.59	36.75	34.93
24	1.383	0.102	1.692	0.569 / 0.574	1.561	1.500
	35.13	2.59	42.98	14.45 / 14.58	39.65	38.10

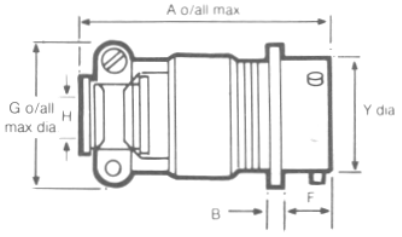
11F

62GB-11F

MIL-C-26482 MS3111F

Cable mounting receptacle with grommet and grommet nut fitted with integral strain relief clamp

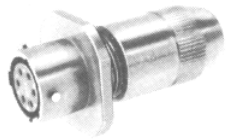




Shell Size	A max	B ± 0.005 (± 0.13)	C max sq	F ± 0.005 (± 013)	G dia max	H ± 0.005 (± 0.13)	Y dia max
08	1.762	0.094	0.817	0.415	0.828	0.156	0.473
	44.75	2.39	20.75	10.54	21.03	3.96	12.03
10	1.762	0.094	0.942	0 415	0.891	0.188	0.590
	44.75	2.39	23.93	10.54	22.63	4.78	14.99
12	1.762	0.094	1.036	0.415	1.016	0.312	0.750
	44.75	2.39	26.32	10.54	25.81	7.93	19.05
14	1.736	0.094	1.130	0.415	1.141	0.375	0.875
	44.10	2.39	28.70	10.54	28.97	9.53	22.23
16	1.876	0.094	1.223	0.415	1.203	0.500	1.000
	47.65	2.39	31.07	10.54	30.56	12.7	25.40
18	1.876	0.094	1.317	0.415	1.426	0.625	1.125
	47.65	2.39	33.45	10.54	36.22	15.88	28.58
20	2.118	0.104 / 0.100	1.442	0.535	1 .426	0.625	1.250
	53.80	2.64 / 2.55	36.63	13.59	36.22	15.88	31.75
22	2.118	0.104 / 0.100	1.567	0.535	1.567	0.750	1.375
	53.80	2.64 / 2.55	39.80	13.59	39.80	19.05	34.93
24	2.250	0.104 / 0.100	1.692	0.569 / 0.574	1.735	0.800	1.500
	57.15	2.64 / 2.55	42.98	14.45 / 14.58	44.07	20.32	38.10

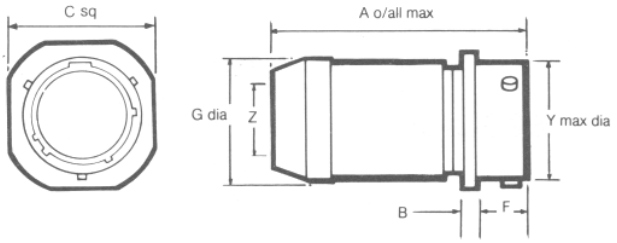
Cable Mounting Receptacles

11J



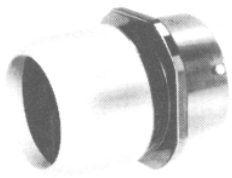
62GB-11J

With cable clamp for unscreened jacketed cable. No grommet supplied



Shell Size	A max	B ± 0.005 (± 0.13)	C max sq	F ± 0.005 (± 0.13)	G dia max	Y dia max	min closed	Z max free
08	1.846	0.094	0.817	0.415	0.561	0.473	0.168	0.230
	46.89	2.39	20.75	10.54	14.25	12.03	4.28	5.84
10	1.846	0.094	0.942	0.415	0.686	0.590	0.205	0.312
	46.89	2.39	23.93	10.54	17.43	14.99	5.21	7.93
12	1.947	0.094	1.036	0.415	0.811	0.750	0.338	0.442
	49.45	2.39	26.32	10.54	20.60	19.05	8.59	11.23
14	2.147	0.094	1.130	0.415	0.936	0.875	0.416	0.539
	54.54	2.39	28.70	10.54	23.78	22.23	10.57	13.69
16	2.347	0.094	1.223	0.415	1.061	1.000	0.550	0.616
	59.61	2.39	31.07	10.54	26.95	25.40	13.97	15.65
18	2.547	0.094	1.317	0.415	1.186	1.125	0.600	0.672
	64.70	2.39	33.45	10.54	30.13	28.58	15.24	17.07
20	2.831	0.102	1.442	0.535	1.311	1.250	0.635	0.747
	71.91	2.59	36.63	13.59	33.30	31.75	16.13	18.98
22	3.031	0.102	1.567	0.535	1.436	1.375	0.670	0.846
	76.99	2.59	39.80	13.59	36.75	34.93	17.02	21.49
24	3.074	0.102	1.692	0.569 / 0.574	1.561	1.500	0.740	0.894
	78.03	2.59	42.98	14.45 / 14.58	39.65	38.10	18.80	22.71

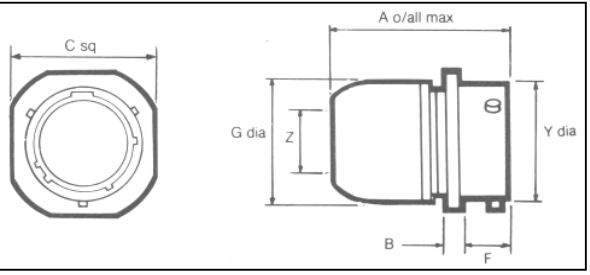
11P



62GB-11P

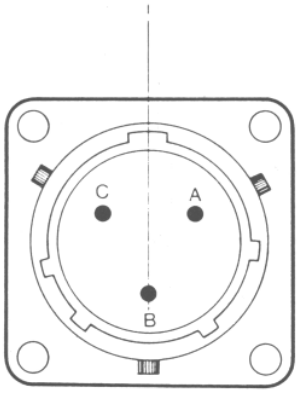
MIL-C-26482 MS3111P

For potted seal supplied complete with detachable potting mould and location ring

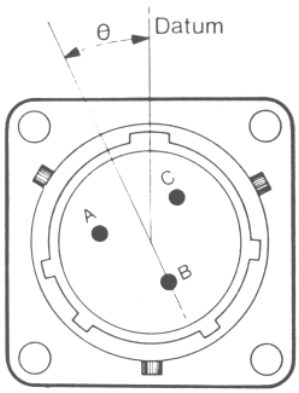


Shell Size	A max	8 ± 0.005 (± 0.13)	C max sq	F ± 0.005 (± 0.13)	G dia max	Y dia max	Z min
08	1.316	0.094	0.817	0.415	0.572	0.473	0.260
	33.43	2.39	20.75	10.54	14.53	12.03	6.60
10	1.425	0.094	0.942	0.415	0.666	0.590	0.463
	36.20	2.39	23.93	10.54	16.92	14.99	11.76
12	1.394	0.094	1.036	0.415	0.822	0.750	0.557
	35.41	2.39	26.32	10.54	20.88	19.05	14.15
14	1.394	0.094	1.130	0.415	0.907	0.875	0.590
	35.41	2.39	28.70	10.54	23.04	22.23	14.99
16	1.394	0.094	1.223	0.415	1.040	1.000	0.713
	35.41	2.39	31.07	10.54	26.42	25.40	18.11
18	1.394	0.094	1.317	0.415	1.165	1.125	0.835
	35.41	2.39	33.45	10.54	29.59	28.58	22.21
20	1.612	0.102	1.442	0.535	1.285	1.250	1.015
	40.95	2.59	36.63	13.59	32.64	31.75	25.78
22	1.612	0.102	1.567	0.535	1.400	1.375	1.015
	40.95	2.59	39.80	13.59	35.56	34.93	25.78
24	1.674	0.102	1.692	0.569 / 0.574	1.540	1.500	1.265
	42.52	2.59	42.98	14.45 / 14.58	39.12	38.10	32.13

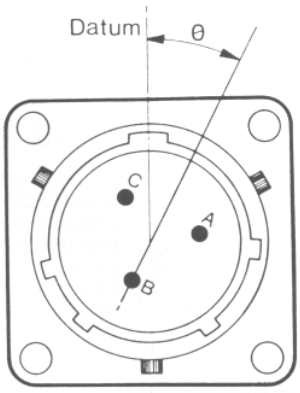
Insert Orientations
For M I L-C-26482 and for replacement purposes in BS9522 FOO 17



Normal position
with pin contacts



Alternative position of insert
with socket contacts
(∅ counterclockwise)



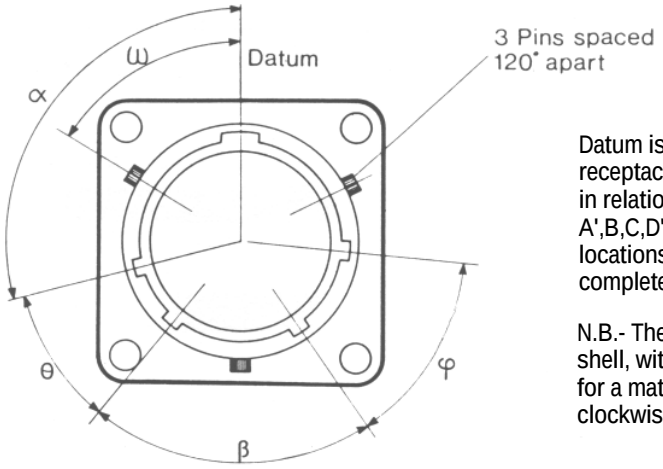
Alternate position of insert
with pin contacts
(∅ clockwise)

Each diagram shows mating face of insert.

Insert Arrangement	Normal	Orientation ∅ (degrees)			
		W	X	Y	Z
8-2	0	58	122	-	-
8-3	0	60	210	-	-
8-33	0	90	-	-	-
8-4	0	45	-	-	-
8-98	0	-	-	-	-
10-2	0	-	-	-	-
10-6	0	90	-	-	-
10-7	0	-	-	-	-
12-3	0	-	-	180	-
12-10	0	60	155	270	295
14-5	0	40	92	184	273
14-12	0	43	90	-	-
14-15	0	17	110	155	234
14-19	0	30	165	315	-
16-18	0	54	152	180	331
16-23	0	158	270	-	-
16-26	0	60	-	275	338
18-11	0	62	119	241	340
18-32	0	85	138	222	265
20-16	0	238	318	333	347
20-41	0	45	126	225	-
22-21	0	16	135	175	349
22-55	0	30	142	226	314
24-61	0	90	180	270	324

Key/Keyway Orientations

For BS9522 F0017



Datum is always taken from major key or keyway. In receptacles the major keyway always remains fixed in relation to the mounting flange. For the A',B,C,D',E and F orientations, the three bayonet locations and associated minor keyways are rotated complete, in accordance with the table below.

N.B.- The accompanying diagram shows a receptacle shell, with keyways. Corresponding key orientations for a mating plug shell are therefore always clockwise.

Shell Size	Values for ∝ (degrees)							Values for θ (degrees)							Values for β (degrees)						
	N	A*	B	C	D*	E	F	N	A*	B	C	D*	E	F	N	A*	B	C	D*	E	F
8	105	92	-	-	118	118	82	35	35	-	-	35	30	50	75	75'	-	-	75	100	75
10	105	95	85	125	115	115	85	35	35	35	35	35	30	50	75	75	75	75	75	100	75
12	105	97	89	121	113	115	85	35	35	35	35	35	30	50	75	75	75	75	75	100	75
14	105	98	91	119	112	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
16	105	99	93	117	111	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
18	105	100	95	115	110	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
20	105	100	95	115	110	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75
22	105	101	97	113	109	7S	120	35	35	35	35	35	30	50	75	75	75	100	75	75	75
24	105	101	97	113	109	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	75

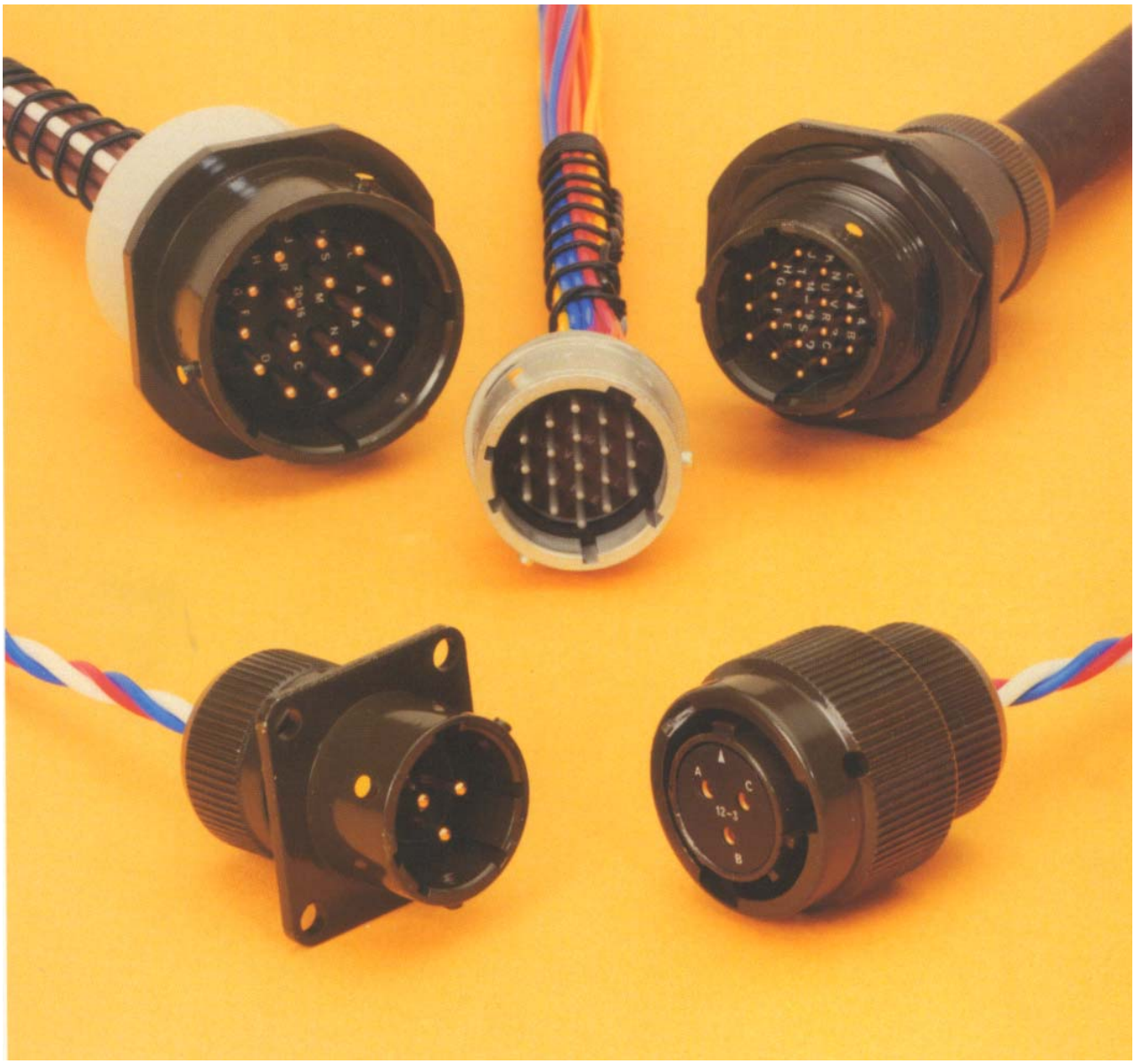
Shell Size	Values for φ (degrees) Orientation							Values for ω (degrees) Orientation						
	N	A*	B	C	D*	E	F	N	A*	B	C	D*	E	F
8	50	50	50	50	50	30	45	60	47	-	-	73	73	47
10	50	50	50	50	50	30	45	60	50	40	80	70	70	50
12	50	50	50	50	50	30	45	60	52	44	76	68	70	50
14	50	50	50	50	50	30	35	60	53	46	74	67	30	75
16	50	50	50	50	50	30	35	60	54	48	72	66	30	75
18	50	50	50	50	50	30	35	60	55	50	70	65	30	75
20	50	50	50	50	50	30	35	60	55	50	70	65	30	75
22	50	50	50	50	50	30	35	60	56	52	68	64	30	75
24	50	50	50	50	50	30	35	60	56	52	68	64	30	75

* now inactive for new designs but available for replacement purposes. Superseded in BS9522 F0017 by orientations E and F.

62 GB- Series Accessories

CE-2Aa

Miniature Bayonet Lock Connectors
Complies with MIL-C-26482



This miniature bayonet lock connector series offers designers important features not found in any other range of connectors.

They are developed and manufactured entirely in the U.K. by AMPHENOL Ltd., and have full qualification approval to British Standards Specification BS 9522 F0017 and British Defence Specification DEF STAN 59-35 (Part 3) Sec. 7.

This catalogue to be used in conjunction with Catalogues:
CE-2Pa – 62GB Series Plugs
CE-2Ra – 62GB Series Receptacles

Amphenol

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This catalogue to be used in conjunction with Catalogues:
CE-2Pa – 62GB Series Plugs
CE-2Ra – 62GB Series Receptacles

Amphenol ® 62GB solder connectors

This miniature bayonet lock connector series offers designers important features not found in any other range of connectors. The range has full qualification approval to British Standards Specification BS 9522 FOO 17 and British Defence Specification DEF STAN 59-35 (Part 3) Sec. 7.

62GB Series connectors - developed and manufactured entirely in the United Kingdom by Amphenol Limited. They are the first and only British connectors to have achieved this. A doubly strong position which Amphenol are well geared to handle. The manufacturing facilities of the Whitstable plant have been cited as exemplary in Europe. Certainly the layout is extensive and extremely efficient; safety awards have been attained every time returns have been submitted to the British Safety Council.

62GB Series connectors have been well established with Government authorities on an international scale and users can be found in Sweden, Denmark, Norway, Finland, Germany, Spain, Holland, India, Canada and Italy.

Derating

Connectors must be derated under the following operating conditions:

1. At elevated ambient temperatures, the current ratings are reduced so that total maximum hot spot temperature of 125°C is not exceeded.

2. At high altitudes, revised voltage ratings become effective as shown on page 7.

3. When connectors to different specifications are intermated (e.g. BS 9522 FOO 17 and MIL-C26482), the combination must not be operated under conditions more severe than the less stringent clause of either specification.

   Amphenol 62GB connectors are designed to meet the most stringent requirements of both specifications.

Military Specifications

British Standards Specification BS 9522 FOO 17 closely corresponds to the United States Military Specification MIL-C-26482 solder terminations. Certain differences exist between the schedules which can be seen on pages 2 and 3.

Approved gauges are used to check interchangeability of 62GB series with other connectors manufactured to BS 9522 FOO 17 or MIL-C-26482.

Basic Construction

62GB Series can be supplied in brass or stainless steel.

The normal shell finish used, which has a high resistance to corrosion, is zinc cobalt olive drab. Other finishes may be supplied to special order, such as cadmium plate which is available by adding deviation (714) to the end of part number.

Inserts are of polychloroprene rubber compounded to an Amphenol specification. Operating temperature range is -55°C to 125°C, and the connectors have gold-plated contacts designed for soldered connections. Configurations for size 20 contacts range between 2 contacts in the size 8 12.7mm (0.5in diameter) shell up to a maximum of 61 contacts in the size 2436.1 mm (1.5in diameter) shell. Intermediate sizes, and contact data for heavier current ratings are shown in the insert availability chart on page 6 and 7.

Hermetic connectors with glass sealed dialectric are manufactured with mild steel shells and nickel iron contacts plated tin over copper.

* Other finishes are available on request.

Protection Against Mis-Mating or Cross-Plugging

In BS 9522 FOO 17 positive shell-to-shell keying is provided with keys and keyways in a choice of either the normal (N) or any of the four preferred alternate positions: B, C, E and F. This prevents mismating between shells of different orientations and overcomes the difficulties associated with rotated inserts and a standard key-keyway orientation. In the latter system, damage to the inserts or contacts can result if excessive force is used to engage non-mating pairs.

Rotated inserts are, however, permissible in BS 9522 FOO 17 connectors if required to mate with or replace units to MIL-C-26482 mounted in existing equipment. Connectors have normal orientations manufactured to BS 9522 FOO 17 or MIL-C-26482 are fully intermateable as also are connectors with inserts in positions W, X, Y or Z.

Schedule of Tests
Required for Qualification Approval

Tests	Brief Description
Visual Examination	
Dimensions, outline mass(including contacts) Compatability Gauging procedure	
Polarization	
Engaging and separating force, connector	Engagement max: 0,90 Nm (8.0 lbf.in.) to 4,97 Nm (44 lbf.in.) according to shell size. Separation min: 0,22 Nm (2.0 lbf.in.) to 1,58 Nm (14.0 lbf.in.) according to shell size.
Contact Holding Force	0,21 N (0.047 lbf) min.size 20 0,56 N (0.126 lbf)min. size 16
Sealing (air pressure)	Max leakage 28,53 uNm/s (1 cm3/h), 1 bar (14.5 p.s.i.) differential.
Sealing Hermetic	Hermetic receptacles have a max leak of 0.1 micron cubic foot per hour (1 x 10-6Cm3/s)
Contact Resistance	5 milliohms max.
Housing (Shell) Continuity	200 milliohms max. 5 milliohms max. grounding spring styles.
Insulation Resistance	5,000 Megaohms at 500 - 50 V d.c.
Voltage Proof	See page 7. Duration 1 minute
Soldering	As BS 9520: 1974, Clause 1.2.6.6, Method 2.
Bumping	As BS 9520: 1974, Clause 1.2.6.1. 4,000 -10 bumps / 390m / s2 (40 gn).
Vibration	As BS 9520: 1974, Clause 1.2.6.2.1. Procedure A. 10 Hz to 5000 Hz, 0.75 mm / 10 gn.
Shock	As BS 9520: 1974, Clause 1.2.6.3. 981 m/s2 (100 g n).
Acceleration (Steady State)	As BS 9520: 1974, Clause 1.2.6.4. 490 m/s2 (50 gn).
Rapid Change of Temperature	As BS 9520: 1974, Clause 1.2.6.7. -550 C to - 1250 C.
Climatic Sequence	As BS 9520: 1974, Clause 1.2.6.11. Severity 55/125/56.
Flammability	As BS 9520: 1974, Clause 1.2.6.8. Direct flame applied, duration 1 minute.
Damp Heat (Steady State)	As BS 9520: 1974, Clause 1.2.6.14. Severity 56 days.

Schedules of Tests
Required for Qualification Approval

Tests	Brief Description
Immersion (at low air pressure)	3 cycles at 30 mins each cycle, total immersion in water at pressure 44 m bar.
Mechanical Endurance	500 operations minimum
High Temperature Endurance	Long term: 1,000 hrs. at 85^0C ambient carrying the specified current. Short term: 250 hrs at 125^0 C, no current.
Mould Growth	As BS 9520: 1983, Clause 1.2.6.16. 28 days duration.
Salt Mist	As BS 9520: 1983, Clause 1.2.6.17. Severity 1.
Dust	As BS 9520: 1983, Clause 1.2.6.18 Exposure 30 minutes.
Robustness of Terminations	44,5 N (101bf) size 16 22,2 N (5 lbf) size 20
Contact Retention (in insert)	67,0 N (15 lbf) min. size 20 112,0 N (25 lbf) min. size 16
Insert Retention (in shell)	517 KN1m2 (751bf/in2) min.
Test Prod Damage	Moment: 0,056 Nm (0.5 lbf in) size 20 0,225 Nm (2 lbf in) size 16
Impact	Five impacts, drop height 1 m (3ft.3 in.).
Grounding Spring Holding Force Plugs with grounding springs only.	1,17 N (0.263 lbf) to 2,74 N (0.616 lbf) according to size.
Fluid Resistance	Immersion in 4 solvents and 9 fluids including aircraft fuels, lubricating oils and hydraulic fluids.
Compass Safe Distance	As BS 9520: 1974, Clause 1.2.5.11. 127 mm (5.0 in) min.

Accessories
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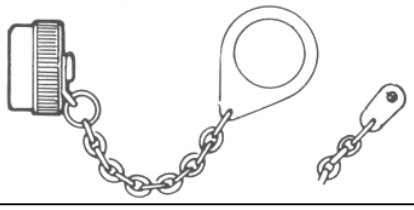
62GB-737			42
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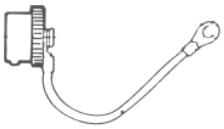
62GB-810			44
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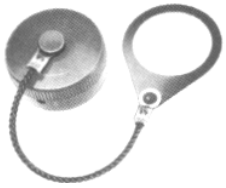
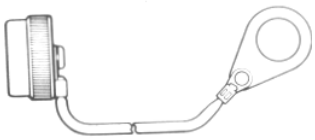
62GB-814			45
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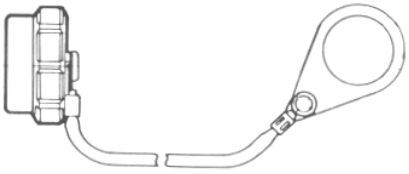
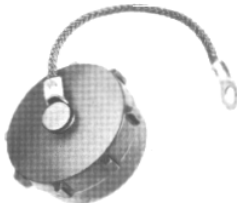
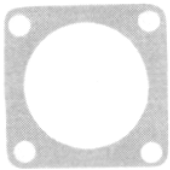
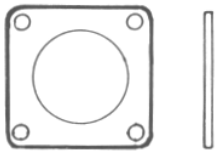
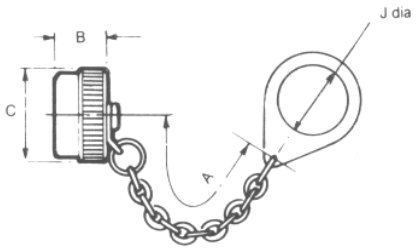
62GB-1069			47
62GB-1070			47
62GB-760			48

Accessories

736

62GB-736

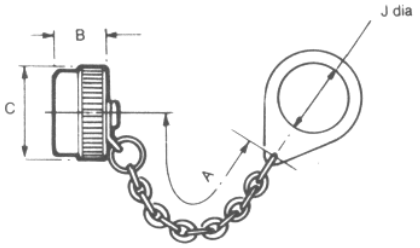


Caps and chains for single hole mounting receptacles

Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C dia max	J ± 0.005 (± 0,127)
08	3.0 76.2	0.521 13.23	0.734 18.64	0.578 14.68
10	3.0 76.2	0.521 13.23	0.859 21.82	0.703 17.86
12	3.5 88.9	0.521 13.23	1.000 25.4	0.891 22.63
14	3.5 88.9	0.521 13.23	1.125 28.57	1.016 25.81
16	3.5 88.9	0.521 13.23	1.250 31.75	1.141 29.39
18	3.5 88.9	0.521 13.23	1.375 34.92	1.266 32.16
20	4.0 101.6	0.521 13.23	1.500 38, 1	1.391 35.33
22	4.0 101.6	0.521 13.23	1.625 41.27	1.516 38.51
24	4.0 101.6	0.556 14.12	1.750 44.45	1 .641 41.68

737

62GB-737



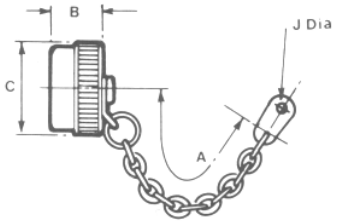
Caps and chains for cable mounting receptacles.

Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C dia max	J ± 0.005 (± 0.127)
08	3.0 76.2	0.521 13.23	0.734 18.64	0.458 11.63
10	3.0 76.2	0.521 13.23	0.859 21.82	0.583 14.81
12	3.5 88.9	0.521 13.23	1.000 25.4	0.708 17.98
14	3.5 88.9	0.521 13.23	1.125 28.57	0.896 22.76
16	3.5 88.9	0.521 13.23	1.250 31.75	1.021 25.93
18	3.5 88.9	0.521 13.23	1.375 34.92	1.146 29.11
20	4.0 101.6	0.521 13.23	1.500 38.1	1.271 32.28
22	4.0 101.6	0.521 13.23	1.625 41.27	1.396 35.46
24	4.0 101.6	0.556 14.12	1.750 44.45	1.521 38.63

Accessories

738

62GB-738

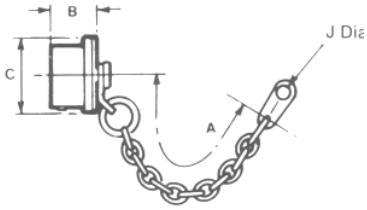


Caps and chains for flange mounting receptacles.

Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C dia max	J ± 0.005 (± 0.127)
08	3.0 76.2	0.521 13.23	0.734 18.64	0.125 3.18
10	3.0 76.2	0.521 13.23	0.859 21.82	0.125 3.18
12	3.5 88.9	0.521 13.23	1.000 25.4	0.125 3.18
14	3.5 88.9	0.521 13.23	1.125 28.57	0.125 3.18
16	3.5 88.9	0.521 13.23	1.250 31. 75	0.125 3.18
18	3.5 88.9	0.521 13.23	1.375 34.92	0.125 3.18
20	4.0 101.6	0.521 13.23	1.500 38.1	0.125 3.18
22	4.0 101.6	0.521 13.23	1.625 41.27	0.125 3.18
24	4.0 101.6	0.556 14.12	1.750 44.45	0.152 3.86

742

62GB-742



Caps and chains for plugs.

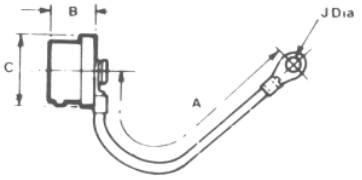
Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C dia max	J ± 0.005 (± 0.127)
08	3.0 76.2	0.522 13.25	0.719 18.26	0.125 3.18
10	3.0 76.2	0.522 13.25	0.844 21.43	0.125 3.18
12	3.5 88.9	0.522 13.25	1.000 25.4	0.125 3.18
14	3.5 88.9	0.522 13.25	1.125 28.57	0.125 3.18
16	3.5 88.9	0.522 13.25	1.250 31.75	0.125 3.18
18	3.5 88.9	0.522 13.25	1.357 34.92	0.125 3.18
20	4.0 101.6	0.584 14.83	1.500 38.1	0.125 3.18
22	4.0 101.6	0.584 14.83	1.625 41.27	0.125 3.18
24	4.0 101.6	0.617 15.67	1.750 44.45	0.152 3.86

Accessories

810

62GB-810

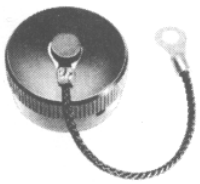
BS9522-F0017-A2012



Caps and cords for plugs

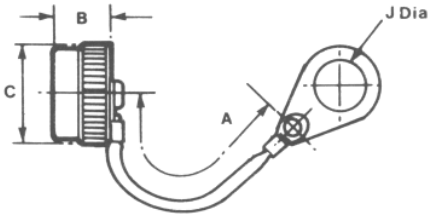
Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C dia max	J ± 0.003 (± 0.08)
08	3.0 76.2	0.522 13.25	0.719 18.26	0.145 3.68
10	3.0 76.2	0.522 13.25	0.844 21.43	3.685 3.68
12	3.5 88.9	0.522 13.25	1.000 25.4	0.145 3.68
14	3.5 88.9	0.522 13.25	1.125 28.57	0.145 3.68
16	3.5 88.9	0.522 13.25	1.250 31.75	0.145 3.68
20	4.0 101.6	0.584 14.83	1.500 38.1	0.145 3.68
22	4.0 101.6	0.584 14.83	1.625 41.27	0.145 3.68
24	4.0 101.6	0.617 15.67	1.750 44.45	0.171 4.34

812



62GB-812

BS9522-F0017-A2013



Caps and cords for flange mounting receptacles.

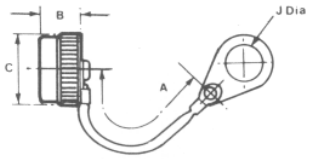
Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C dia max	J ± 0.003 (± 0.08)
08	3.0 76.2	0.521 13.23	0.734 18.64	0.145 3.68
10	3.0 76.2	0.521 13.23	0.859 21.82	0.145 3.68
12	3.5 88.9	0 521 13.23	1 .000 25.4	0.145 3.68
14	3.5 88.9	0.521 13.23	1.125 28.57	0.145 3.68
16	3.5 88.9	0.521 13.23	1 .250 31.75	0.145 3.68
18	3.5 88.9	0.521 13.23.	1.375 34.92	0.145 3.68
20	4.0 101.6	0.521 13.23	1.500 38.1	0.145 3.68
22	4,0 101.6	0.521 13.23	1.625 41.27	0.145 3.68
24	4.0 101 .6	0.556 14.12	1.750 44.45	0.171 4.34

Accessories

813

62GB-813

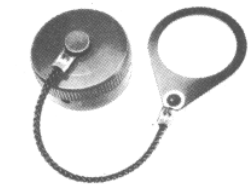
BS9522-F0017 A2014



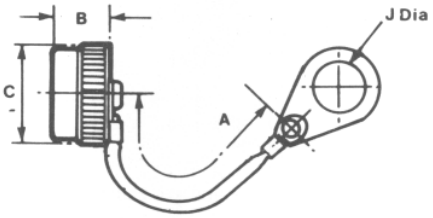
Caps and cords for single hole mounting receptacles.

Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C max	J + 0.010 (+ 0.25)
08	3.0	0.521	0.734	0.578
	76.2	13.23	18.64	14.68
10	3.0	0.521	0.859	0.703
	76.2	13.23	21.82	17.86
12	3.5	0.521	1.000	0.891
	88.9	13.23	25.4	22.63
14	3.5	0.521	1.125	1.016
	88.9	13.23	28.57	25.81
16	3.5	0.521	1.250	1.141
	88.9	13.23	31.75	29.39
18	3.5	0.521	1.375	1.266
	88.9	13.23	34.92	32.16
20	4.0	0.521	1.500	1.391
	101.0	13.23	38.1	35.33
22	4.0	0.521	1.625	1.516
	101.6	13.23	41.27	38.56
24	4.0	0.556	1.750	1.641
	101.6	14.12	44.45	41.68

814



62GB-814



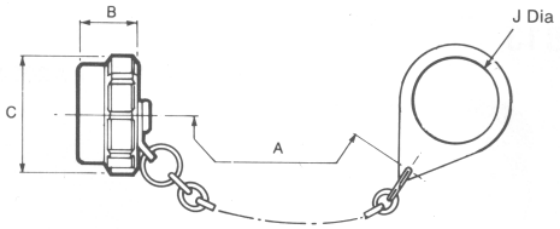
Caps and cords for cable mounting receptacles.

Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C max	J +0.010 (+ 0.25)
08	3.0	0.521	0.734	0.453
	76.2	13.23	18.64	11.50
10	3.0	0.521	0.859	0.578
	76.2	13.23	21.82	14.64
12	3.5	0.521	1.000	0.703
	88.9	13.23	25.4	17.85
14	3.5	0.521	1.125	0.891
	88.9	13.23	28.57	22.63
16	3.5	0.521	1.250	1.016
	88.9	13.23	31.75	25.80
18	3.5	0.521	1.375	1.141
	88.9	13.23	34.92	28.98
20	4.0	0.521	1.500	1.266
	101.6	13.23	38.1	32.15
22	4.0	0.521	1.625	1.391
	101.6	13.23	41.27	35.33
24	4.0	0.556	1.750	1.516
	101.6	14.12	44.45	38.50

Accessories

997

62GB-997

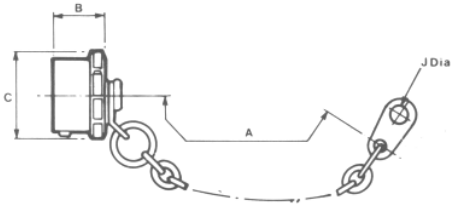


Caps and chains ribbed for single hole mounting receptacles.

Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C dia max	J + 0.010 (+ 0.25)
08	3.0 76.2	0.521 13.23	0.892 22.66	0.578 14.69
10	3.0 76.2	0.521 13.23	1.017 26.84	0.703 17.86
12	3.5 88.9	0.521 13.23	1.142 29.01	0.891 22.64
14	3.5 88.9	0.521 13.23	1.267 32.19	1.016 25.81
16	3.5 88.9	0.521 13.23	1.454 36.94	1.141 28.99
18	3.5 88.9	0.521 13.23	1.563 39.70	1.266 32.16
20	4.0 101.6	0.521 13.23	1.687 42.85	1.391 35.34
22	4.0 101.6	0.521 13.23	1.797 45.65	1.516 38.51
24	4.0 101.6	0.556 14.12	1.922 48.82	1.641 41.69

998

62GB-998



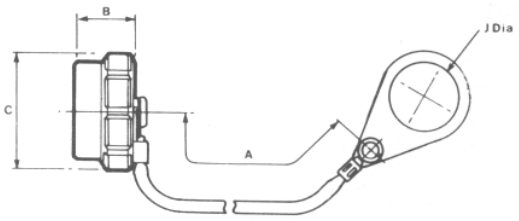
Caps and chains ribbed for plugs.

Shell Size	A ± 0.25 (± 6.35)	g max	C dia max	J ± 0.005 (± 0.13)
08	3.0 76.2	0.562 1428	0.892 22.66	0.125 3.18
10	3.0 76.2	0.562 14.28	1.017 25.84	0.125 3.18
12	3.5 88.9	0.562 1428	1.142 29.01	0.125 3.18
14	3.5 88.9	0.562 14.28	1.267 32.19	0.125 3.18
16	3.5 88.9	0.562 14.28	1.454 36.94	0.125 3.18
18	3.5 88.9	0.562 14.28	1.563 39.70	0.125 3.18
20	4.0 101 .6	0.624 15.85	1.687 42.85	0.125 3.18
22	4.0 101.6	0.624 15.85	1.797 45.65	0.125 3.18
24	4.0 101.6	0.624 15.85	1.922 48.82	0.147 3.74

Accessories

1069

62GB-1069

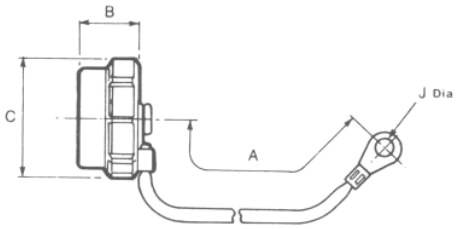


Caps and cords ribbed for single hole mounting receptacles.

Shell Size	A ± 0.25 (± 6.35)	B ±.0.005 (± 0.13)	C dia max	J + 0.010 (+ 0.25)
08	3.0	0.521	0.892	0.578
	76.2	13.23	22.66	14.69
10	8.0	0.521	1.017	0.703
	76.2	13.23	26.84	17.86
12	3.5	0.521	1.142	0.891
	88.9	13.23	29.01	22.64
14	3.5	0.521	1.267	1.016
	88.9	13.23	32.19	25.81
16	3.5	0.521	1.454	1.141
	88.9	13.23	36.94	28.99
18	3.5	0.521	1.563	1.266
	88.9	13.23	39.70	32.16
20	4.0	0.521	1.687	1.391
	101.6	13.23	42.85	35.34
22	4.0	0.521	1.797	1.516
	101.6	13.23	45.65	38.51
24	4.0	0.556	1.922	1.641
	101.6	14.12	48.82	41.686

1070

62GB-1070

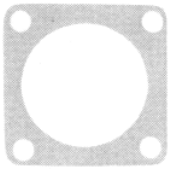


Caps and cords ribbed for flange mounting receptacles.

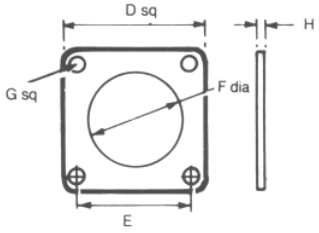
Shell Size	A ± 0.25 (± 6.35)	B ± 0.005 (± 0.13)	C Dia max	J ± 0.005 (± 0.13)
08	3.0	0.521	0.892	0.117
	76.2	13.23	22.66	3.03
10	3.0	0.521	1.017	0.119
	76.2	13.23	22.66	3.03
12	3.5	0.521	1.142	0.119
	88.9	13.23	29.01	3.03
14	3.5	0.521	1.267	0.119
	88.9	13.23	32.19	3.03
16	3.5	0.521	1.454	0.119
	88.9	13.23	36.94	3 03
18	3.5	0.521	1.563	0.119
	88.9	13.23	39.70	3.03
20	4.0	0.521	1.687	0.119
	101.6	13.23	42.85	3.03
22	4.0	0.521	1.797	0.119
	101.6	13.23	45.65	3.03
24	4.0	0.556	1.922	0.147
	101.6	14.12	48.82	3.74

Accessories

760



62GB-760



Flange mounting gasket for box mounting and hermetic receptacles.

Shell Size	0 ± 0.010 (± 0.254)	E ± 0.010 (± 0.254)	F ± 0.008 (± 0.20)	G + 0.010 (+ 0.254)	H
08	0.812	0.594	0.508	0.130	0.042 / 0.016
	20.62	15.08	12.90	3.30	1.06 / 0.40
10	0.938	0.719	0.633	0.130	0.042 / 0.016
	23.82	18.26	16.07	3.30	1.06 / 0.40
12	1.031	0.813	0.758	0.130	0.042 / 0.016
	26.18	20.65	19.25	3.30	1.06 / 0.40
14	1.125	0.906	0.883	0.130	0.042 / 0.016
	28.57	23.01	22.42	3.30	1.06 / 0.40
16	1.219	0.969	1.008	0.130	0.042 / 0.016
	30.96	24.61	25.60	3.30	1.06 / 0.40
18	1.312	1.063	1.133	0.130	0.042 / 0.016
	33.32	27.00	28.77	3.30	1.06 / 0.40
20	1.438	1.156	1.258	0.130	0.042 / 0.016
	36.52	29.36	31.95	3.30	1.06 / 0.40
22	1.563	1.250	1.383	0.130	0.042 / 0.016
	39.70	31.75	35.13	3.30	1.06 / 0.40
24	1.688	1.375	1.508	0.156	0.042 / 0.016
	42.87	34.92	38.30	3.96	1.06 / 0.40

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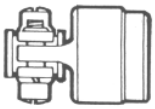
62GB-585			51
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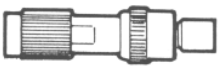
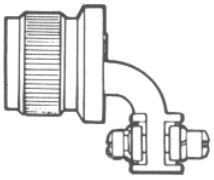
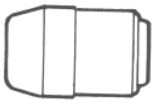
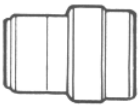
62GB-587			52
62GB-711			53
62GB-720			53
62GB-776			54

Cable Accessories
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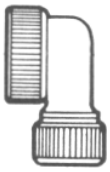
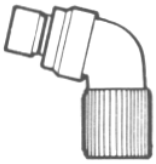
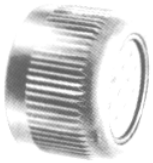
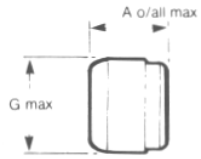
62GB-1225			54
62GB-5028			55

584



62GB - 584 - XX - XXS or P

BS 9522 FOO 17 A2102



Grommet seal and nut. Provides an environmental seal for the exposed solder buckets in the openback class T shells.

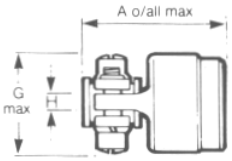
Suffix XX - XXS or P enables grommet to be matched to the insert arrangement.

Shell Size	A	G max
08	0.545 13.84	0.561 14.25
10	0.545 13.84	0.686 17.43
12	0.545 13.84	0.811 20.60
14	0.545 13.84	0.936 23.78
16	0.545 13.84	1.061 26.95
18	0.545 13.84	1.186 30.13
20	0.545 13.84	1.311 33.30
22	0.545 13.84	1.436 36.75
24	0.501 12.73	1.561 39.65

585

62G B - 585 - XX - XXS or P

BS9522 FOO 17 A2103



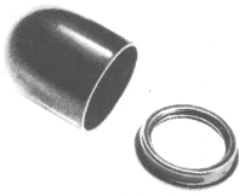
Grommet and nut with strain relief clamp. The clamp prevents the flexing of the wires in the immediate vicinity of the risers, so avoiding the risk of leaks.

Suffix XX - XXS or P enables grommet to be matched to the insert arrangement.

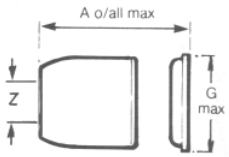
Shell Sine	A max	G max	max
08	0.991 25.17	0 828 21.03	0.161 4.09
10	0.991 25.17	0.891 22.63	0.193 4.90
12	0 991 25.17	1.016 25.81	0.317 8.05
14	0.965 24.51	1.141 28.98	0.380 9.65
16	1.105 28.07	1.203 30.56	0.505 12.83
18	1.105 28.07	1.426 36.22	0.630 16.00
20	1.285 32.64	1.426 36.22	0.630 16.00
22	1.285 32.64	1.567 39.80	0.755 19.18
24	1.373 34.88	1.735 44.07	0.805 20.45

Cable Accessories

586



62G B - 586 - XX



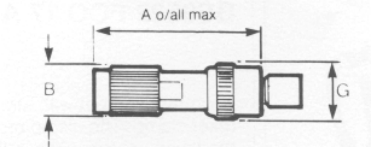
Potting mould and ring, supplied together as a set.

Suffix XX specifies shell size.

Shell Size	A max	G max	Z min
08	0.644 16.36	0.585 14.85	0.260 6.60
10	0.753 19.13	0.679 17.24	0.463 11.76
12	0.722 18.34	0.835 21.20	0.557 14.14
14	0.722 18.34	0.913 23.19	0.590 14.98
16	0.722 18.34	1.038 26.36	0.713 18.11
18	0.722 18.34	1.163 29.54	0.835 21.20
20	0 877 22 30	1.288 32.71	1.015 25.78
22	0.877 22.30	1.413 35.89	1.015 25.78
24	0.896 22.76	1.538 39.06	1.263 32.08

587

62G B - 587 - XX - XXS or P



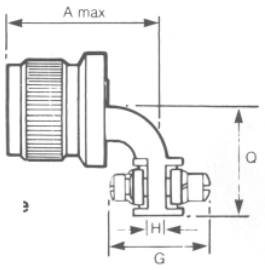
Clamp for screened jacketed cable. 62 Series only with grommet. Effective sealing is provided over the range of cables covered by DEF 10(Pattern C) and DEF STAN 61-12 port (see table). These are supplied to separate order only for use with style T shells.

Suffix XX-XXS or P enables grommet to be matched to the insert arrangement.

Shell Size	length Including plug	A Max	length Including receptacle	B max	G max
08	2.732 69.39		2.742 69.64	0.676 17.17	0.775 19.68
10	2.742 69.64		2.752 69.90	0.676 17.17	0.902 22.91
12	3.152 80.06		3162 80.31	0.812 20.62	1.030 2616
14	3.152 80.06		3.162 80.31	0.926 23.52	1.157 29.39
16	3.272 83.10		3 282 83.36	1.051 26.67	1.284 32.61
18	- -		- -	- -	- -
20	3.272 83.10		3.345 84.96	1.280 32.51	1.539 39.09
22	- -		- -	- -	- -
24	3.696 93.87		3.768 95.70	1.620 41.15	1.783 45.29

711

62G B - 711 - XX - XXS or P

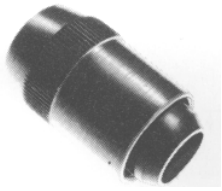


Grommet and nut with right angled strain relief clamp. The clamp prevents flexing of the wires in the immediate vicinity of the risers, so avoiding the risk of leaks (these are supplied to separate order only for use with style T shells).

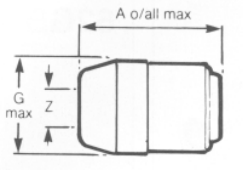
Suffix XX - XXS or P enables grommet to be matched to the insert arrangement.

Shell Size	A max	G max	H ± 0.005 ± 0.13	Q max
08	1.5/32	0.828	0.161	0.733
		21.03	4.09	18.62
10	1.3/16	0.891	0.193	0.795
		22.63	4.90	20.19
12	1.7/32	1.016	0.317	0.858
		25.81	8.05	21.79
14	1.1/4	1.141	0.380	0.915
		28.98	9.65	23.24
16	1.5/16	1.203	0.505	1.010
		30.56	12.83	25.65
18	1.3/8	1.426	0.630	1.070
		36.22	16.00	27.18
20	1.3/8	1.426	0 630	1.140
		36.22	16.00	28.96
22	1.29/64	1.567	0.755	1.170
		39.80	19.18	29.72
24	1.15/32	1.735	0.805	1.260
		44.07	20.45	32.00

720



62G B - 720 - XX



Clamp for unscreened jacketed cable. No grommet is supplied, for use with 50T, 51T and 56T styles.

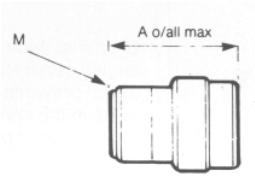
Suffix XX specifies shell size.

Shell Size	A max	G max	Z closed	Z free
08	1.085	0.561	0 168	0 230
	27.56	14.25	4.28	5.84
10	1.060	0.686	0.205	0.312
	26.92	17.43	5.21	7.93
12	1.160	0.81 1	0 338	0.442
	29.46	20.60	8.59	1 1.23
14	1.360	0.936	0.416	0.539 1
	34.54	23.78	10.57	13.69
16	1.585	1.061	0.550	0.616
	40.26	26.95	13.97	15.65
18	1.785	1.186	0.600	0.672
	45.34	30.13	15.24	17.57
20	1.981	1.311	0.635	0.747
	50.32	33 30	16.13	18.98
22	2.181	1.436	0.670	0.846
	55.39	36.75	17.02	21.49
24	2.216	1.561	0.740	0.894
	56.28	39.65	18.80	22.71

Cable Accessories

776

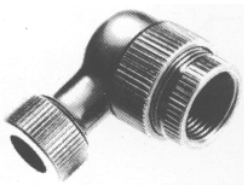
62GB - 776



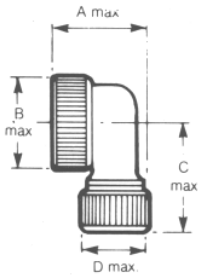
General duty shell to accept conduit, AN 3057 or MS 3057 A cable clamps and heat shrink sleeves.

Shell Size	A max	M Thread
08	0.937 23.80	1/2 - 28 UNEF
10	0.937 23.80	5/8 - 24 NEF
12	0.937 23.80	3/4 - 20 UNEF
14	0.937 23.80	7/8 – 20 UNEF
16	0.937 23.80	1 - 20 UNEF
18	0.937 23.80	1.3/16 - 18 NEF
20	0.937 23.80	1.3/16 - 18 NEF
22	0.937 23.80	1.7/16 - 18 NEF
24	0.937 23.80	1.7/16 - 18 NEF

1225



62GB - 1225



900 clamp for screened jacketed cable. These are supplied to separate order only for use with style T shells.

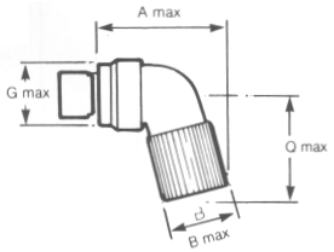
Shell Size	A max	B max	C max	D max
08	0.942 23.93	0.821 20.85	1.160 29.46	0.636 16.15
10	0.883 22.43	0.821 20.85	1.160 29.46	0.636 16.15
12	0.704 17,88	0.821 20.85	1.160 29.46	0.636 16.15
14	1.119 28.42	0.937 23.80	1.160 29.46	0.636 16.15

5028

62G B - 5028 - XX - XXS or P

75% Clamp for screened jacketed cable with grommet. Effective sealing is provided over the range of cables covered by DEF 10 (Pattern C) and DEF STAN 61 - 12 part 5 (see table). These are supplied to separate order only and are intended for use with style T shells.

Suffix XX-XXS or P enables grommet to be matched to the insert arrangement.



Shell Size	length including receptacle	A Max	length including plug	B max	G max	max
08	2.416 61.37		2.375 60.24	0.676 17.17	0.775 19.68	1.750 44.45
10	2.573 65.35		2.532 64.39	0.676 17.17	0.902 22.91	1.875 47.63
12	2.666 67.72		2.625 66.68	0.812 20.62	1.030 26.16	2.125 53.98
14	2.760 70.10		2.719 69.04	0.926 23.52	1.157 29.39	2.125 53.98
16	2.790 70.87		2.750 69.80	1.051 26.70	1.284 32.61	2.062 52.38
18	- -		- -	- -	- -	- -
20	3.312 84.13		3.250 82.55	1.280 32.51	1 539 39 09	2.062 52.38
22	- -		- -	- -	- -	- -
24	3.500 88.90		3.375 85.73	1.620 41.15	1.783 45.29	2.187 55.55