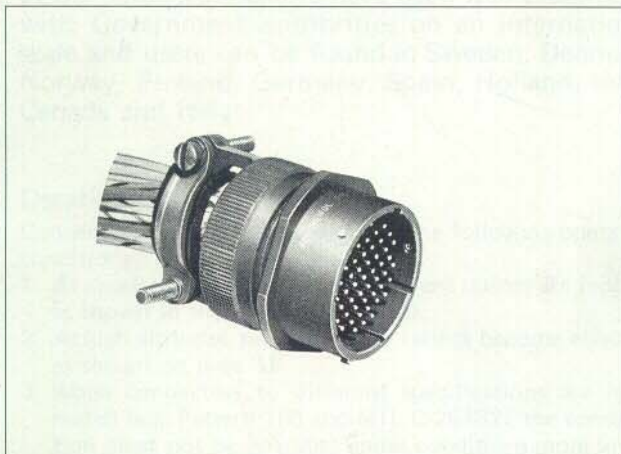
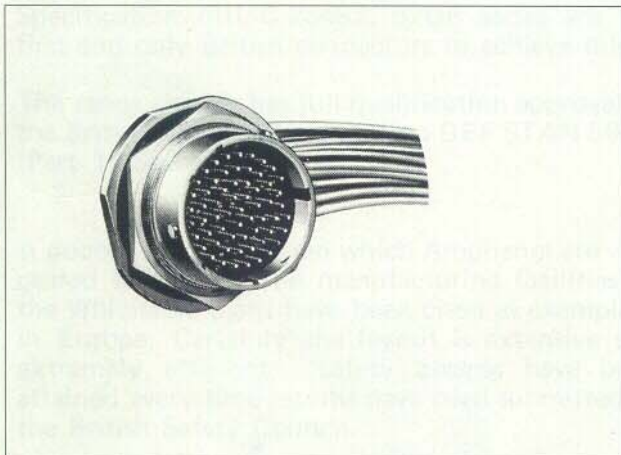
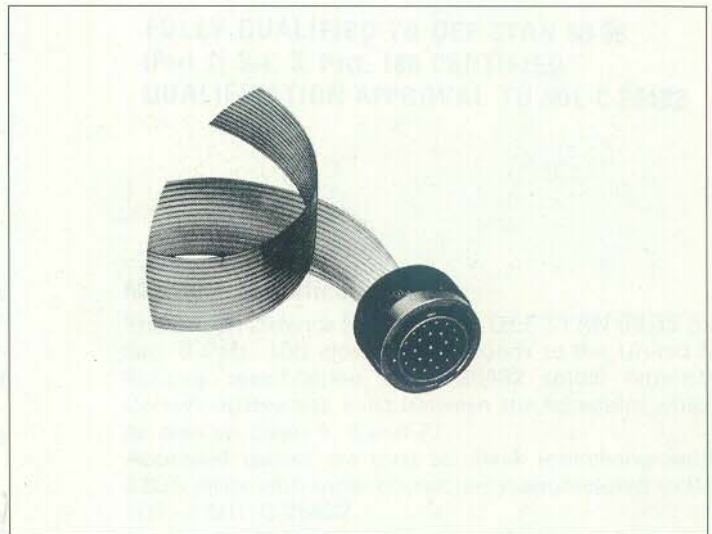
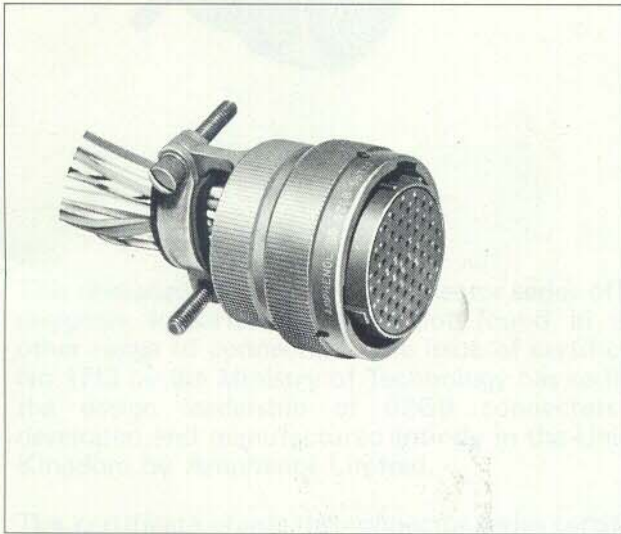


62/162 GB Series

CE-2

Miniature Bayonet Lock Connectors MIL-C-26482



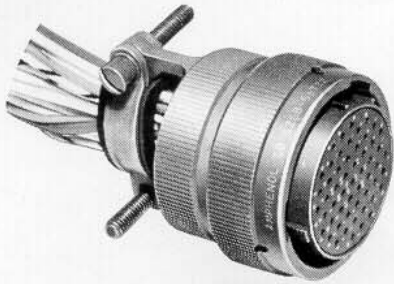
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Amphenol

an *LPL* company



Amphenol 62GB solder connectors

FULLY QUALIFIED TO DEF STAN 59-35
(Part 1) Sec. 3. Patt. 105 CERTIFIED
QUALIFICATION APPROVAL TO MIL-C-26482

This miniature bayonet lock connector series offers designers important features not found in any other range of connectors. The issue of certificate No. 1713 by the Ministry of Technology has verified the design leadership of 62GB connectors — developed and manufactured entirely in the United Kingdom by Amphenol Limited.

The certificate grants the connector series certified qualification approval to the United States Military Specification MIL-C-26482. 62GB series are the first and only British connectors to achieve this.

The range already has full qualification approval to the British Defence Specification DEF STAN 59-35 (Part 1) Sec. 3 Patt. 105.

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 temperatures, the current ratings are reduced as shown in the table on page 10.
2. At high altitudes, revised voltage ratings become effective as shown on page 11.
3. When connectors to different specifications are intermated (e.g. Pattern 105 and MIL-C-26482), 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

The British Defence Specification DEF STAN 59-35 (part 1) Sec. 3 Patt. 105 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 5, 6 and 7.

Approved gauges are used to check interchangeability of 62GB series with other connectors manufactured to Pattern 105 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 cadmium plating with an olive-drab chromate treatment. Other finishes may be supplied to special order, such as bright cadmium plate.

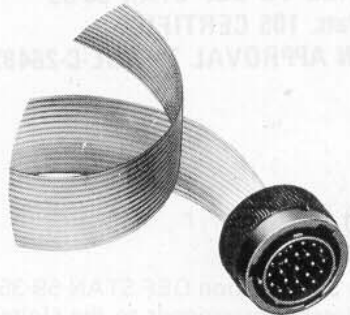
Inserts are of polychloroprene rubber compounded to an Amphenol specification. Operating temperature range is -55°C to $+125^{\circ}\text{C}$, and the connectors have gold-plated contacts designed for soldered connections. Configurations for size 20 contacts range between 2 contacts in the size 8 12.7mm (0.5in diameter) shell up to a maximum of 61 contacts in the size 24 36.1mm (1.5in diameter) shell. Intermediate sizes, and contact data for heavier current ratings are shown in the insert availability chart on page 10 and 11.

Protection Against Mis-mating or Cross-Plugging

In Pattern 105 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 Pattern 105 connectors if required to mate with or replace units to MIL-C-26482 mounted in existing equipment. Connectors having *normal* orientations manufactured to Pattern 105 or MIL-C-26482 are fully intermateable as also are connectors with inserts in positions W, X, Y or Z.

Amphenol 82GB solder connectors

FULLY QUALIFIED TO DEF STAN 9232
(Part 1) Sec 1.105 CERTIFIED
QUALIFICATION APPROVAL C-25483



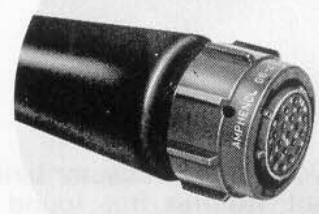
Film Wire

Receptacles may be supplied with pin or socket contacts to suit flexible printed wiring under deviation (219).



Front Demountable Coupling Rings

This feature is unique to Amphenol's connectors and has important users benefits. A damaged coupling ring can be replaced or the bayonet track cleansed of dirt and the ring refitted. Both these operations can be carried out in the field as an emergency.



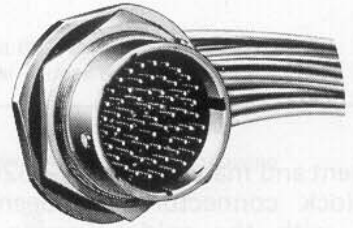
Rough-grip Heavy Duty Coupling Rings

Designed for use in difficult situations such as arctic temperatures where gloves would be worn or in muddy conditions where an equal 'grip' problem exists. The rough-grip style of coupling ring has been found so useful that it is now incorporated into the Defence Standard. Deviation (044).



Lever Coupling Rings

Amphenol's lever coupling ring design allows extremely close mounting of connectors. Mating and unmating is achieved with a 120° movement and it is easy to apply torque to the lever when connectors are mounted in confined spaces. Deviation (218).

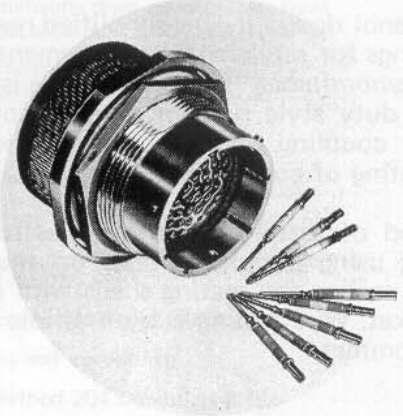


Sealing

Peripheral seals are provided on the rubber inserts and the mating shells are sealed by a square-section gasket. Wire-sealing is achieved by the use of multiple risers in the rear grommet. Leakage rate for 62GB connectors is less than 1 cc per hour, 96.6 kN/m² (14 p.s.i.) for 62GB connectors.

Hermetic Seal Connectors

Single hole fixing, solder mounting and square flange receptacles with pin contacts are available with Amphenol one-piece glass-to-metal hermetic seals. Identoseal permanent coding is used for contact identification. Leakage rate is less than 0.003 cm³ (0.1 micron cubic feet) of helium per hour. Hermetic connectors have the lowest silhouette of any connector in the range; thus they are particularly useful in non-hermetic applications where space is at a premium. Hermetic styles are also designed to comply with MIL-C-26482.

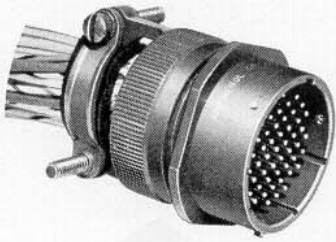


Potting

Plugs and certain receptacles may be supplied with nylon potting moulds as listed on pages 8 and 9. Potting moulds with location rings are also available separately and are shown in the cable accessories section on page 26. These moulds are intended to be left in position after the compound has cured. Potting compounds which have given satisfactory results are Silcoset 102 and British Paints PR 1201 Q.

Amphenol is fully equipped to undertake all aspects of potting.

Connectors with built-in filtering against conducted electro magnetic interference can be ordered under the series number 482. These are environmentally and electrically compatible with 62GB series. As well as being intermateable they can also be mounted within the same cut-out dimensions.



Amphenol 162 GB crimp connectors

DESIGNED TO COMPLY WITH MIL-C-26482
AND BS 9522-N001, THE SUCCESSOR TO
DEF 5326 Patt.603

Development and manufacture of 162GB miniature bayonet lock connectors has been closely co-ordinated with the solder version. The entire programme has been carried out at Amphenol's Whitstable Plant. The precision machinery and measurement control processes used for the production of 162GB crimp connectors are the same as those used to produce 62GB solder connectors.

Full intermountability and intermateability are absolutely guaranteed.

162GB Series crimp connectors share many of the features of 62GB solder connectors. Coupling is achieved with a triple-track bayonet locking system which gives positive alignment on all shell sizes. When connector halves are fully mated there is a definite click. Inspection holes in the coupling ring will then reveal the bayonet pins on the receptacle which are clearly marked in yellow.

The Amphenol design means simplified removal of coupling rings for servicing or replacement as they are *front demountable*. In addition there is a rough grip heavy duty style ring for arduous conditions and a lever coupling ring which allows extremely close mounting of connectors.

The method of sealing is the same as for 62GB connectors; using peripheral seals on the rubber inserts and sealing the mating shells with a square section gasket. Wire sealing is by multiple risers in the rear grommet.

Derating

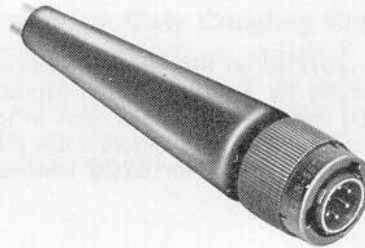
Connectors must be derated under the following operating conditions :

1. At elevated temperatures, the current ratings are reduced as shown in the table on page 10.
2. At high altitudes, revised voltage ratings become effective as shown on page 11.
3. When connectors to different specifications are inter-mated (e.g. BS 9522-N001 and MIL-C-26482), the combination must not be operated under conditions more severe than the less stringent clause of either specification.

Amphenol 162GB connectors are designed to meet the most stringent requirements of both specifications.

Audio Applications

Contacts are suitable for tinsel cord applications.



Cable Assemblies

Amphenol is fully equipped to undertake the preparation of all types of cable assemblies complying with the military vehicles and engineering establishments and fighting vehicles requirements of the Ministry of Defence – the Ministry of Environment (Motorways) for motorway control equipment – the Post Office manufacturing code and to the British Standards Institute when applicable to Cable systems. Control procedures carried out in accordance with MIN DEF 05-21. Approval numbers BS 9000, 1043/M and CAA AD/1450/58. Moulded terminations form a specialised service by the company. The process offers such advantages as a waterproof seal between cable and connector back-end, mechanical protection, and a homogeneous joint between moulding and cable.

Other Amphenol Products

Amphenol products include: printed circuit, rack and panel, microminiature, audio; hermetic and r.f. connectors; integrated circuit components; trimming and precision potentiometers; concentric and digital microdials; cable, cable assemblies; fans and blowers; relays and keys; chokes and coils; r.f. coaxial switches.

62GB and 162GB Series

DESIGNED TO COMPLY WITH MIL-26482-
SCHEDULE OF TESTS REQUIRED FOR
QUALIFICATION APPROVAL

Tests	Brief Description												
Examination of product													
Maintenance aging	Crimp only There is no damage to the contacts or connectors after 10 removals and insertions of the contacts.												
Contact insertion and removal forces	Crimp only Insertion — does not exceed 66.7 N (15lbf.) For individual contacts. Removal — does not exceed 44.5N (10lbf.)												
Contact retention	Crimp contact —Contact locking mechanisms withstands the following minimum axial forces: <table border="1"> <tr> <td>CONTACT SIZE</td> <td>20</td> <td>16</td> <td>12</td> </tr> <tr> <td>FORCE (N)</td> <td>89</td> <td>111</td> <td>133</td> </tr> <tr> <td>(LBF)</td> <td>20</td> <td>25</td> <td>30</td> </tr> </table> Axial displacement does not exceed 0.304mm (0.012in) when pressure is applied from face side.	CONTACT SIZE	20	16	12	FORCE (N)	89	111	133	(LBF)	20	25	30
CONTACT SIZE	20	16	12										
FORCE (N)	89	111	133										
(LBF)	20	25	30										
Contact retention	Solder contacts. 4.45N (1 lbf. per second until specified load reached 66.7N (15 lbf.) for size 20, 111.0 N (25 lbf.) for size 16 and 111.0 N (25 lbf.) for size 12.												
Operating forces	Torque measurement of mating and un-mating. Ranges from 0.905 Nm. (8 lbf.in.) on shell size 8 to 4.971 Nm. (44 lbf.in.) on shell size 24 couplings.												
Insulation resistance, room temperature	Unmated connectors tested in accordance with Method 302 test condition B of MIL-STD-202.												
Dielectric withstanding voltage (sea level)	Mated and unmated connectors tested in accordance with Method 301 of MIL-STD-202.												
Dielectric withstanding voltage (altitude)	Tested in accordance with Method 105, test condition C of MIL-STD-202. After 30 minutes tested in accordance with Method 301 of MIL-STD-202 unmated and mated.												
Initial contact resistance	Between 45 and 95 millivolts drop on wire sizes from 24 to 12. Crimp contacts to meet MIL-C-23216.												
Thermal shock	Unmated connectors tested in accordance with Method 107, condition B of MIL-STD-202 except min temp is -55°C.												
Air leakage	62GB items no more than 16.387 cm ³ /hr. (1 atmospheric cu in/hr)												
Air leakage hermetic	No more than 0.0003 cm ³ (0.01 micron cubic feet) of helium per hour.												
Insulation resistance at elevated temps (short time)	Greater than 3 megohms 250 hr at 125°C.												
(long time)	Greater than 12 megohms 1000 hr at 105°C.												
Durability	500 cycles of coupling and uncoupling.												
Vibration	In accordance with Method 204 Condition B of MIL-STD-202.												
Shock	Impulses of 50 G's duration of 11 ±1 milliseconds												
Moisture resistance	In accordance with Method 106 of MIL-STD-202.												
Corrosion	Salt spray to Method 101 Condition B of MIL-STD-202.												
Operating forces	From 0.905 Nm. (8 lb.in.) for shell size 8 to 4.971 Nm. (44 lb.in.) for shell size 24.												
Contact resistance	As per contact resistance test of MIL-C-23216.												

Tests**Brief Description**

(a) Solvent immersion hydraulic fluid	Conforming to MIL-H-5606 20 hrs
(b) Solvent immersion lubricating oil	Conforming to MIL-H-7808 20 hrs
Insert retention	Effective pressure differential of 5 17.0 KN/m ² (75 p.s.i.)
Insert retention hermetic	Effective pressure differential of 13 80.0 KN/m ² (200 p.s.i.)
Contact retention crimp	Axial loads between 6 6.67 N (15 lbf.) and 111.2 N (25 lbf.)
Contact retention solder. Post examination of product	Axial loads between 6 6.67 N (15 lbf.) and 111.2 N (25 lbf.)

Solder Contacts

Contact engagement and separation	In accordance with MIL-C-23216.
Resistance to test probe damage	In accordance with MIL-C-23216

Protective Covers and Storage

Examination of product	<i>Components suitability after storage and use of recommended protective covers.</i>
Operating forces	Measurement of receptacles, plugs and protective covers mating and unmating forces.
Moisture resistance	Crimp contacts to Method 106 of MIL-STD-202 Solder contacts tested installed in heavy condensation.
Corrosion	Salt spray to Method 101, condition B of MIL-STD-202.
Cover chains tensile strength	111.2 N (25 lbf.) from various directions.
Air leakage	69.0 KN/m ² (10 p.s.i.) applied to inside of protective covers.

Crimp Contact Retention Feature

Examination of product	<i>Test to establish crimp effectiveness</i>
Maintenance aging (contacts only)	Involves repeated insertion/removal of contacts and mating and unmating of connectors.
Contact retention	Loads applied in both directions.

Connector Assembly — Class J

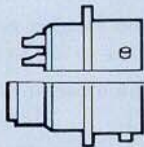
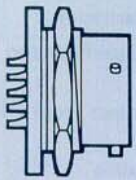
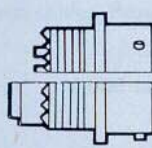
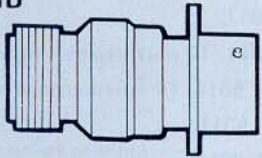
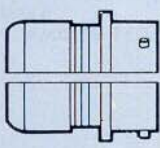
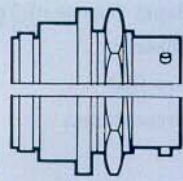
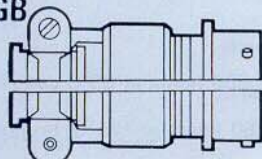
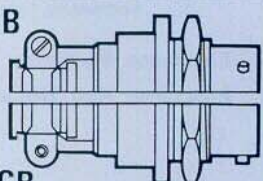
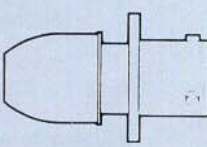
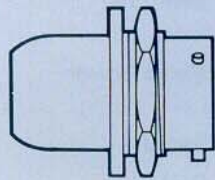
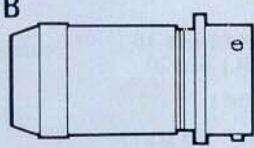
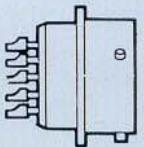
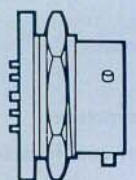
Examination of product	
Thermal shock	In accordance with Method 107 Condition B of MIL-STD-202.
Water pressure	Immersion 1.829 m (6 ft.) under water for solder type connectors.
Air leakage	Solder receptacles 206.9 KN/m ² (30 p.s.i.) across connectors. Others to Method 112 Condition C, procedure I of MIL-STD-202.





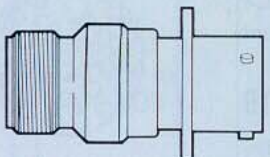
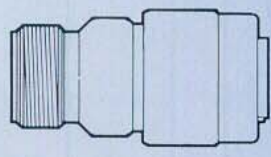
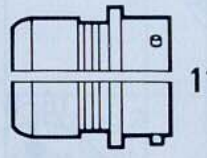
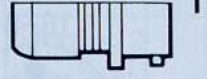
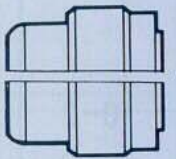
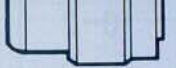
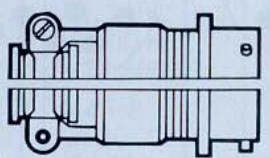
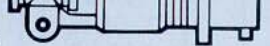
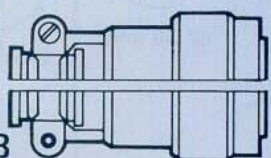
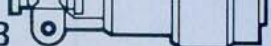
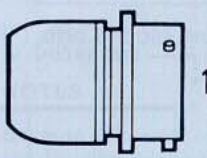
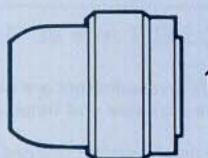
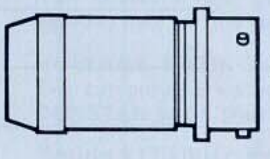
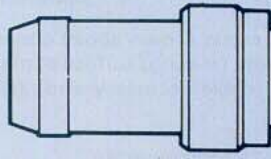

62GB Series

FULLY QUALIFIED TO DEF STAN
59-35 (Part 1) Sec. 3 – SCHEDULE
OF TESTS REQUIRED FOR
QUALIFICATION APPROVAL.

General Examination	
Compatibility (Gauging)	
Polarisation	
Engagement and Disengagement Force	0.904Nm – 4.067Nm (8.36 lbf.in.) torque according to shell size.
Contact Hold Force	.343N (.077 lbf.) size 20 .981N (.22 lbf.) size 16
Sealing	Max leakage: 1 cc per hour at 96.6 KN/m ² (14 p.s.i.) differential
Contact Resistance	5 milliohms max.
Screen Continuity	5 milliohms max.
Insulation Resistance	5000 megohms at 500 V
Ionisation	Unspecified
Voltage Proof	See page 11
Soldering	As DEF 5011.
Bumping	As DEF 5011. 10 microseconds max intermittency
Vibrating	V3 as DEF 5011. 10 microseconds max intermittency
Shock	S2 as DEF 5011.
Acceleration	A2 as DEF 5011.
Rapid Change of Temperature	T5 as DEF 5011.
Climatic	D1/H5 as DEF 5011 21 days
Fire Risk	Not applicable
Fireproofness	Not applicable
Damp Heat Long Term	H6. 56 days.
Endurance, Mechanical	500 operations
Endurance, High Temperature	Batch 1 : 1,000 hours at 85°C carrying the specified current. Batch 2 : 250 hours at 125°C, no current
Shelf Life	per DEF 5011, 3 year test
Mould Growth	per DEF 5011.
Salt Mist	per DEF 5011.
Dust	per DEF 133.
Robustness of Terminations	44.5N (10 lbf.) size 16 22.3N (5 lbf.) size 20
Contact Retention (in insert)	44.5N (10 lbf.)
Insert Retention (in shell)	516.5 KN/m ² (75 p.s.i.)
Test Prod Damage	.056 Nm (0.5 lbf.in.) size 20 .225 Nm (2 lbf.in.) size 16
Impact	5 impacts from 0.914 m (3 ft.)
Immersion	1.524 m (5 ft.) water for 1 hour
Solvent Resistance	14 fluids

Table of shell styles

	BOX MOUNTING RECEPTACLES (4-hole Fixing) Page 14 & 15	BOX MOUNTING RECEPTACLES (4-hole Fixing) Page 14 & 15	SINGLE HOLE FIXING RECEPTACLES Page 16-17
PLAIN SHELL		62GB  12E 162GB	CC 1301 62GB  57A
THREADED SHELL	62GB CC 1303  50T 162GB 30T		
GENERAL DUTY	62GB  10A		
GROMMET SEAL	62GB  10E 162GB		CC 1302 62GB  14E 162GB
STRAIN RELIEF CLAMP (For details of right angle strain relief clamps, see page 26)	62GB  10F 162GB		62GB  14F 162GB
POTTED SEAL	62GB  10P		62GB  17P
UNSCREENED JACKETED CABLE CLAMP	62GB  10J		
HERMETIC SEAL Page 18 & 19		62GB  12H	62GB  17H

SOLDER MOUNTED RECEPTACLES Page 18 & 19	CABLE MOUNTING RECEPTACLES Page 20 & 21	PLUGS Page 22 & 23
	62GB  51T 162GB  31T	62GB  56T 162GB  36T
	62GB  11A	62GB  16A
	62GB  11E 162GB  11E	62GB  16E 162GB  16E
	62GB  11F 162GB  11F	62GB  16F 162GB  16F
	62GB  11P	62GB  16P
	62GB  11J	62GB  16J
62GB  13H	<p style="text-align: center;">62GB ONLY</p> <p style="text-align: center;">Styles marked with CC numbers are approved to DEF STAN 59-35 (Part 1) Sec. 3.</p>	

Insert Availability

8	10	12	14	16	18	20
8-2* 62 GB only	10-6 	12-10 	14-12† 	16-23* 	18-32 	20-41
8-3* 62 GB only	10-7 		14-15 62 GB only	16-26 		
8-3 3 			14-19 			
8-4* 62 GB only						
8-98 	10-2 62 GB only	12-3 62 GB only	14-5 	16-8 	18-11 	20-16 62 GB only

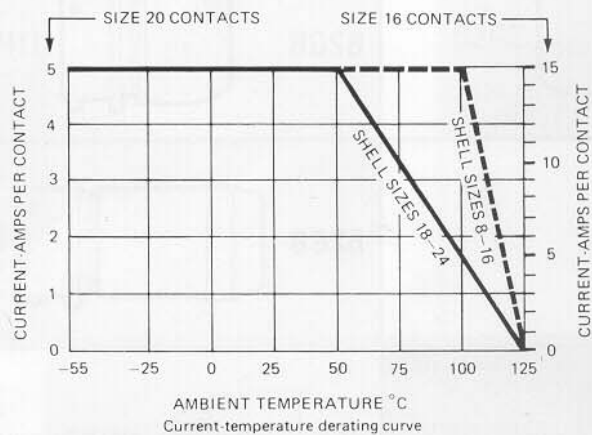
NOTES

* These insert arrangements are not included in Pattern 105 but are available and listed in MIL-C-26482.

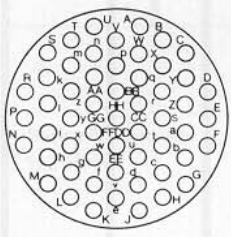
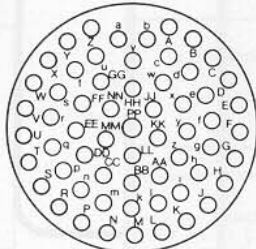
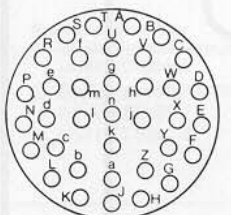
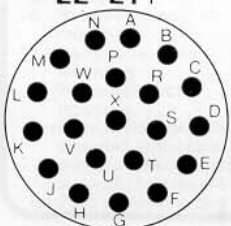
† Due to the arrangement of contacts in the 14-12 insert arrangement it is classified, for current derating, in the shell size range 18-24.

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

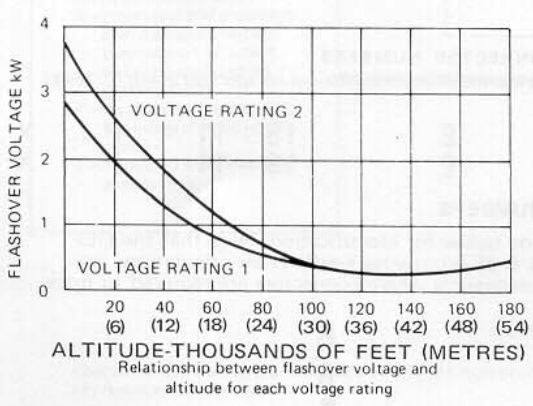
KEY ● No. 16 size contacts
○ No. 20 size contacts



VOLTAGE RATINGS

	Altitude	d.c. working voltage	a.c. working voltage r.m.s.	Proof voltage
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>22</p> <p>22-55</p>  </div> <div style="text-align: center;"> <p>24</p> <p>24-61</p>  </div> </div>	Rating 1			
	Sea level	700	500	2200
	300 mb at 20° C 8,500m (27,800 ft)	375	265	1250
	44 mb at 20° C 20,000 m (66,000 ft.)	200	140	530
<div style="text-align: center;"> <p>22-36</p>  <p>162 GB only</p> </div>	Rating 2			
	Sea level	1250	900	3250
	300 mb at 20° C. 8,500 m (27,800 ft)	550	390	1750
	44 mb at 20° C 20,000 m (66,000 ft)	300	210	775
<div style="text-align: center;"> <p>22-21†</p>  <p>† Available to special order only</p> </div>				

(Figures in bold type are from DEF STAN 59-35 (Part 1) Sec. 3 Patt. 105)



NOTES

* Because safe working voltages at altitudes above sea-level are dependent upon individual conditions of use, these values are not specified in DEF STAN 59-35 (Part 1) Sec. 3 Patt. 105 but approximate values are included here for the guidance of designs.

VOLTAGE RATINGS

Two categories of voltage rating are specified in DEF STAN 59-35 (Part 1) Sec. 3 Patt. 105.

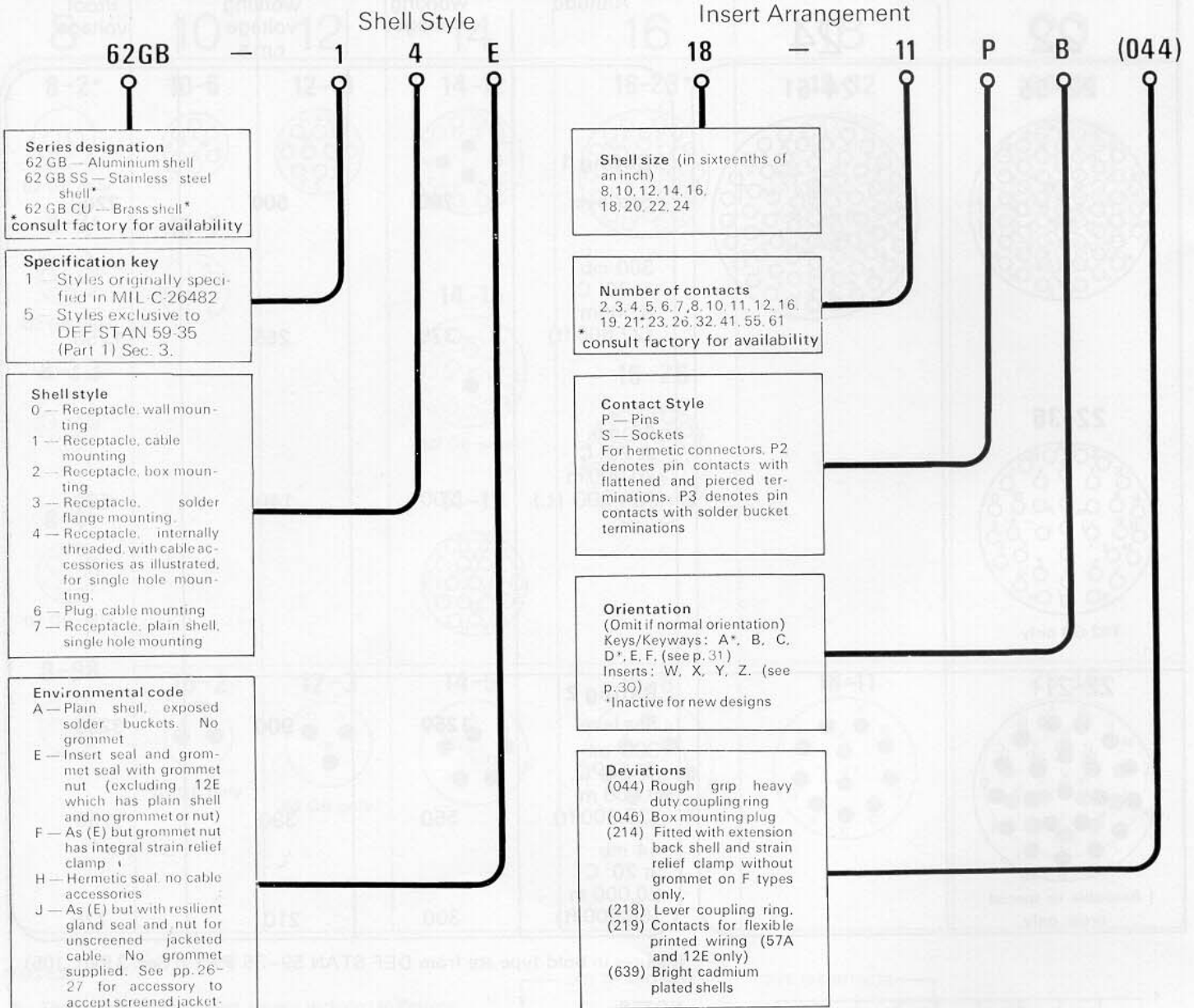
Rating 1 (700V d.c. working at sea-level)
Applicable to the high contact density inserts shown in the upper section of the insert availability diagram above.

Rating 2 (1250V 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 Amphenol 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.



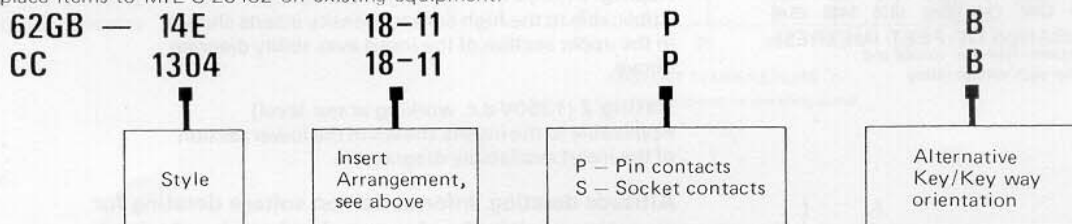
HOW TO ORDER FROM MS CONNECTOR NUMBERS

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.

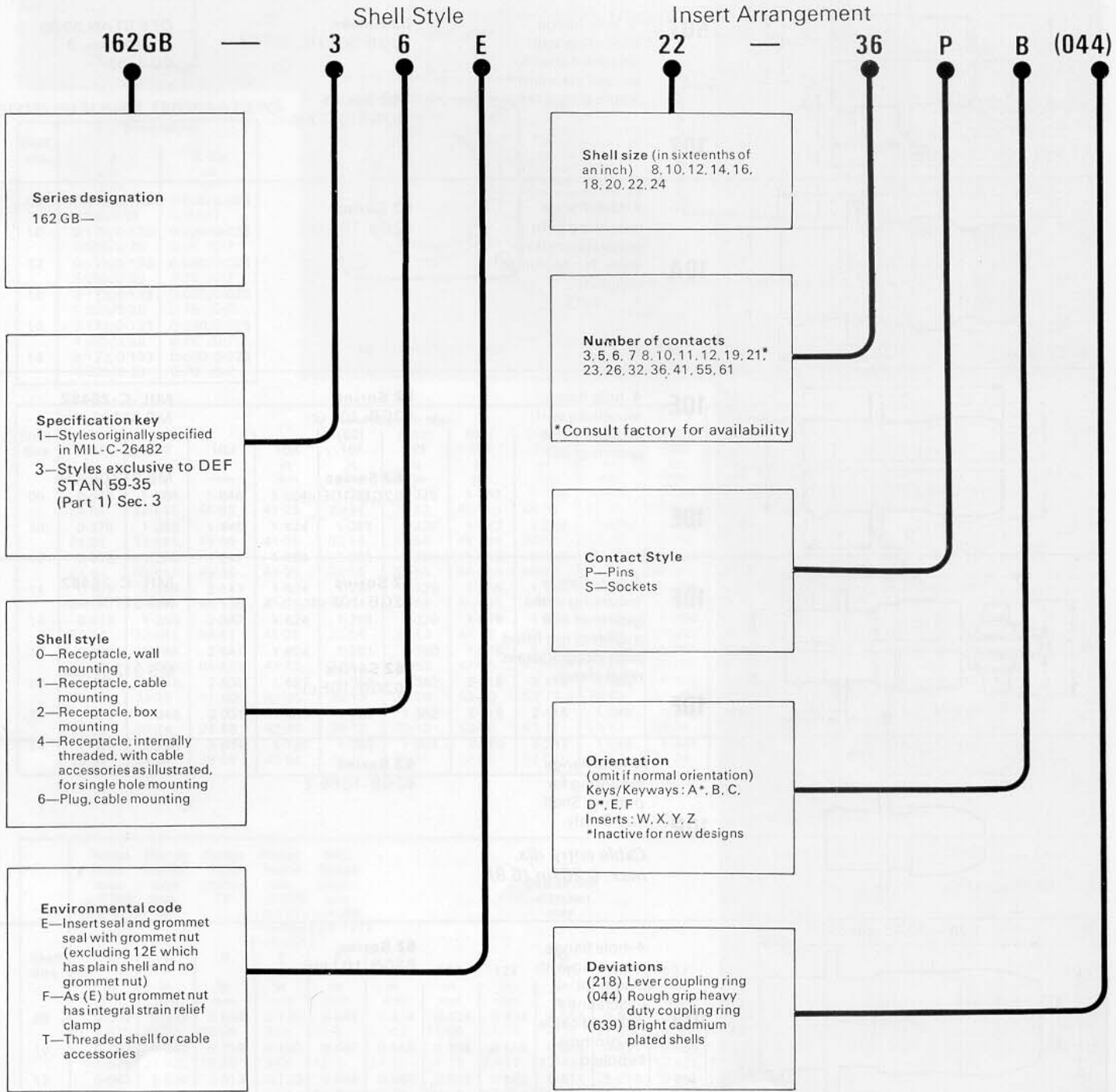
MS31	—	14	E	18 - 11	P	X
62GB	—	14	E	18 - 11	P	X

HOW TO ORDER FROM DEF CONNECTOR NUMBERS

Select the connector style by reference to DEF STAN 59-35 (Part 1) Sec. 3 using the code below for identification. Note that the DEF Specification includes only certain connectors from the table of styles as shown on pp. 8 & 9. Alternative key/keyway orientations are preferred in the DEF Specification to prevent mis-mating. Rotated inserts are, however, permissible where connectors are required to mate with or replace items to MIL-C-26482 on existing equipment.



Ordering Amphenol 162GB Series Connectors

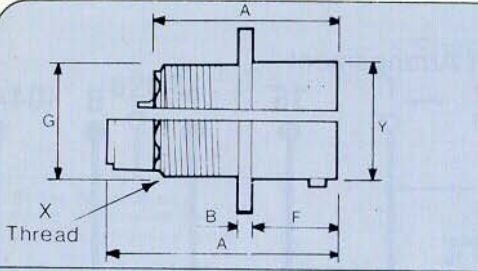
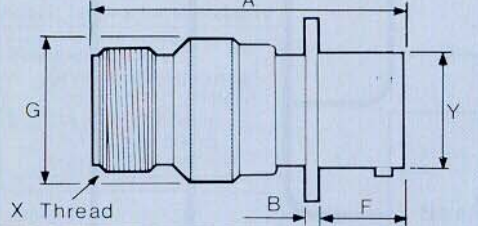
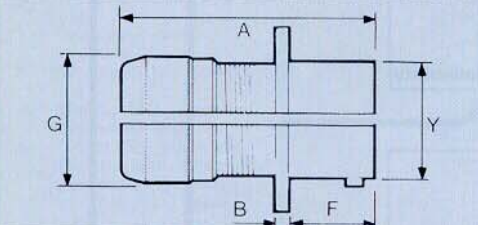
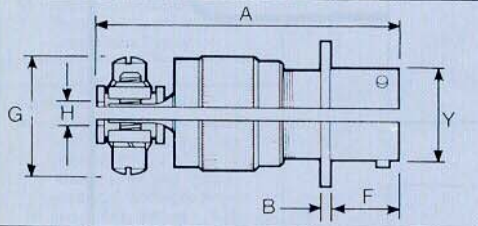
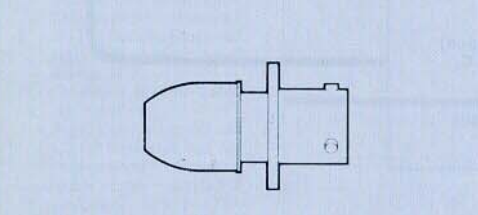
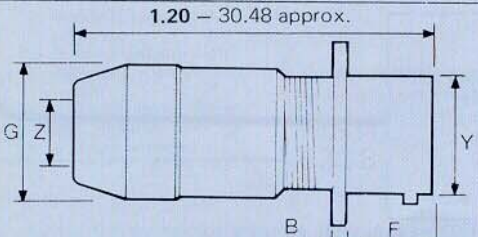
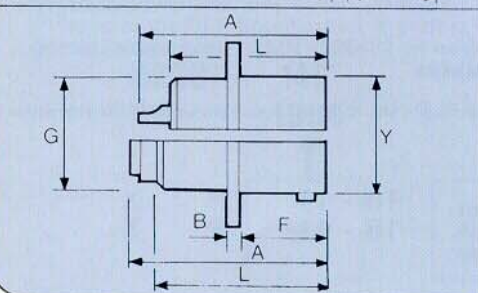


HOW TO ORDER FROM MS CONNECTOR NUMBERS

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.

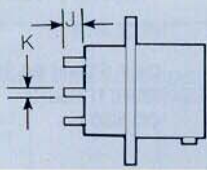
MS31	—	24	E	18 - 11	P	X
162GB		14	E	18 - 11	P	X

Box Mounting Receptacles

	Description	Amphenol Part No.	Military No.
	<p>50T 4-hole flange mounting with threaded shell to accept standard cable accessories.</p> <p>30T</p>	<p>62 Series 62GB-50T etc.</p> <p>162 Series 162GB-30T etc.</p>	<p>DEF STAN 59-35 (Part 1) Sec. 3 CC 1303</p>
	<p>10A 4-hole flange mounting with general duty back shell. No grommet supplied.</p>	<p>62 Series 62GB-10A etc.</p>	
	<p>10E 4-hole flange mounting with grommet and grommet nut.</p>	<p>62 Series 62GB-10E etc.</p> <p>162 Series 162GB-10E etc.</p>	<p>MIL-C-26482 MS 3110E etc.</p> <p>MS 3120E, etc.</p>
	<p>10F 4-hole flange mounting with grommet and grommet nut fitted with integral strain relief clamp.</p>	<p>62 Series 62GB-10F etc.</p> <p>162 Series 162GB-10F etc.</p>	<p>MIL-C-26482 MS 3110F etc.</p> <p>MS 3120F, etc.</p>
	<p>10P 4-hole flange mounting for potting. Shell size 8 only.</p> <p><i>Cable entry dia. max. 0.267in (6.8)</i></p>	<p>62 Series 62GB-10P8-2</p>	
	<p>10J 4-hole flange mounting with clamp for unscreened jacketed cable. No grommet supplied.</p>	<p>62 Series 62GB-10J etc.</p>	
	<p>12E 4-hole flange mounting with plain shell for direct wiring to exposed solder buckets. Film wire terminations available on 62 Series as deviation (219). 162 Series style has integral grommet.</p>	<p>62 Series 62GB-12E etc.</p> <p>162 Series 162GB-12E etc.</p>	<p>MIL-C-26482 MS 3112E etc.</p> <p>MS 3122E, etc.</p>

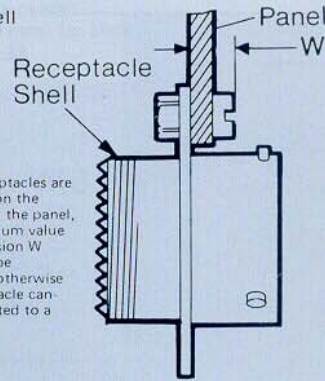
Dimensions and Mounting Details

62/162 OVERALL MATED DIMENSIONS



Add the two relevant plug and receptacle overall dimensions and deduct — 0.365 (9.271mm) for shell sizes 20, 22, 24
— 0.303 (7.696mm) for all other sizes

12E
(219)



When receptacles are mounted on the rearface of the panel, the maximum value for dimension W must not be exceeded otherwise the receptacle cannot be mated to a plug.

Panel piercing details on Page 19 as 12H

12E(219) FILM WIRE TERMINATIONS

Shell size	Dimensions	
	J in mm	K dia. in mm
08	0.173/0.133 4.395/3.38	0.030/0.028 0.76/0.7
10	0.173/0.133 4.395/3.38	0.030/0.028 0.76 /0.7
12	0.173/0.133 4.395/3.38	0.030/0.028 0.76 /0.7
14	0.173/0.133 4.395/3.38	0.030/0.028 0.76 /0.7
16	0.173/0.133 4.395/3.38	0.030/0.028 0.76 /0.7
18	0.173/0.133 4.395/3.38	0.030/0.028 0.76 /0.7

Panel thickness with screw head W max.

Shell size	in. mm.	Shell size	in. mm.
08-18	0.100 2.540	20 - 24	0.210 5.330

Shell Size	'A' Overall Length Max.												'L' Shell Lengths		Thread X 10A only
	50T	30T	10J	10A	10E (62)	10E (162)	10F (62)	10F (162)	12E (62)	12E (162)	12E (62)	12E (162)	12E	12E	
08	0.978 24.84	1.286 32.665	1.846 46.89	1.624 41.25	1.281 32.54	1.320 33.53	1.762 44.755	1.759 44.68	0.978 24.84	1.286 32.665	0.800 20.32	0.917 23.29			1/2-28 UNEF
10	0.978 24.84	1.286 32.665	1.846 46.89	1.624 41.25	1.281 32.54	1.320 33.53	1.762 44.755	1.759 44.68	0.978 24.84	1.286 32.665	0.800 20.32	0.917 23.29			5/8-24 NEF
12	0.978 24.84	1.286 32.665	1.947 49.45	1.624 41.25	1.281 32.54	1.320 33.53	1.762 44.755	1.759 44.68	0.978 24.84	1.286 32.665	0.800 20.32	0.917 23.29			3/4-20 UNEF
14	0.978 24.84	1.286 32.665	2.147 54.535	1.624 41.25	1.281 32.54	1.320 33.53	1.736 44.095	1.733 44.02	0.978 24.84	1.286 32.665	0.800 20.32	0.917 23.29			7/8-20 UNEF
16	0.978 24.84	1.286 32.665	2.347 59.61	1.624 41.25	1.281 32.54	1.320 33.53	1.876 47.65	1.873 47.575	0.978 24.84	1.286 32.665	0.800 20.32	0.917 23.29			1-20 UNEF
18	0.978 24.84	1.286 32.665	2.547 64.695	1.624 41.25	1.281 32.54	1.320 33.53	1.876 47.65	1.873 47.575	0.978 24.84	1.286 32.665	0.800 20.32	0.917 23.29			1 1/16-18 NEF
20	1.048 26.62	1.348 34.24	2.831 71.905	1.687 42.85	1.383 35.13	1.382 35.10	2.118 53.80	2.115 53.72	1.048 26.62	1.348 34.24	0.875 22.225	0.980 24.89			1 3/16-18 NEF
22	1.048 26.62	1.348 34.24	3.031 76.99	1.687 42.85	1.383 35.13	1.382 35.10	2.118 53.80	2.115 53.72	1.048 26.62	1.348 34.24	0.875 22.225	0.980 24.89			1 7/16-18 NEF
24	1.048 26.62	1.348 34.24	3.074 78.08	1.730 43.94	1.383 35.13	1.382 35.10	2.250 57.15	2.247 57.075	1.048 26.62	1.348 34.24	0.875 22.225	1.023 29.895			1 7/16-18 NEF

Shell Size	Flange Thickness ±0.005 (±0.127)		Flange Dimension max. sq.	Flange Hole centres TP	Flange Holes dia. (+0.005 ±0.005 -0.002 (±0.127) (-0.051)	Mtg. Flange Location	Overall rear diameter max.										Cable sleeve int. dia. ±0.005 (±0.127)	Thread X	Shell ext. dia. max. Y	Cable Entry dia. Z	
	B	C					D	E	F	50T	30T	12E	G	10F	10J	10A				H	min. closed
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm			
08	0.062 1.575	0.817 20.75	0.594 15.09	0.120 3.05	0.445 11.3		0.434 11.02	0.434 11.02	0.434 11.02	0.561 14.25	0.828 21.03	0.561 14.25	0.561 14.25	0.156 3.96	7/16-28 UNEF	0.473 12.015	0.168 4.275	0.230 5.84			
10	0.062 1.575	0.942 23.925	0.719 18.26	0.120 3.05	0.445 11.3		0.558 14.17	0.558 14.17	0.558 14.17	0.686 17.425	0.891 22.63	0.686 17.425	0.686 17.425	0.188 4.775	1/8-24 NEF	0.590 14.99	0.205 5.205	0.312 7.925			
12	0.062 1.575	1.036 26.315	0.812 20.625	0.120 3.05	0.445 11.3		0.683 17.35	0.683 17.35	0.683 17.35	0.811 20.60	1.016 25.805	0.811 20.60	0.811 20.60	0.312 7.925	1/8-24 NEF	0.750 19.05	0.338 8.585	0.442 11.23			
14	0.062 1.575	1.130 28.70	0.906 23.10	0.120 3.05	0.445 11.3		0.808 20.52	0.808 20.52	0.808 20.52	0.936 23.775	1.141 28.98	0.936 23.775	0.936 23.775	0.375 9.575	3/8-20 UNEF	0.875 22.225	0.416 10.565	0.539 13.69			
16	0.062 1.575	1.223 31.065	0.969 24.61	0.120 3.05	0.445 11.3		0.933 23.7	0.933 23.70	0.933 23.70	1.061 26.975	1.203 30.555	1.061 26.975	1.061 26.975	0.500 12.7	1/2-20 UNEF	1.000 25.4	0.550 13.97	0.616 15.65			
18	0.062 1.575	1.317 33.45	1.062 26.575	0.120 3.05	0.445 11.3		1.057 26.85	1.057 26.85	1.057 26.85	1.186 30.12	1.426 36.22	1.186 30.12	1.186 30.12	0.625 15.875	1 1/16-18 NEF	1.125 28.575	0.600 15.24	0.672 17.07			
20	0.080 2.03	1.442 36.625	1.156 29.36	0.120 3.05	0.555 14.095		1.182 30.02	1.182 30.02	1.182 30.02	1.311 33.30	1.426 36.22	1.311 33.30	1.311 33.30	0.625 15.875	1 3/16-18 NEF	1.250 31.75	0.635 16.13	0.747 18.975			
22	0.080 2.03	1.567 39.80	1.250 31.75	0.120 3.05	0.555 14.095		1.307 33.20	1.307 33.20	1.307 33.20	1.436 36.47	1.567 39.80	1.436 36.47	1.436 36.47	0.750 19.05	1 5/16-18 NEF	1.375 34.925	0.670 17.02	0.846 21.49			
24	0.080 2.03	1.692 42.98	1.375 34.925	0.147 3.735	0.590 14.985		1.432 36.37	1.432 36.37	1.432 36.37	1.561 39.65	1.735 44.07	1.561 39.65	1.561 39.65	0.800 20.32	1 7/16-18 NEF	1.500 38.1	0.740 18.80	0.894 22.71			

Single Hole Fixing Receptacles

Description	Amphenol Part No.	Military No.
	62 Series 62GB-57A etc.	DEF STAN 59-35 (Part 1) Sec. 3 CC 1301
57A	Single hole fixing with plain shell for direct wiring to exposed solder buckets. Has panel O-ring seal. Film wire terminations available as deviation (219).	
	62 Series 62GB-5024-XX-XX	
5016 5005 5024	Single hole fixing plain shell for direct wiring to exposed solder buckets. Reduced diameter flange with panel 'O' ring seal. Sizes 8, 10, 12 and 14 only. <i>5016 Solder buckets. Size 10 only.</i> <i>5005 P.C. pins. Size 10 only.</i> <i>5024 Solder buckets. Size 8, 12, & 14 only.</i>	
	62 Series 62GB-14E etc.	MIL-C-26482 MS 3114E etc. DEF STAN 59-35 (Part 1) Sec. 3 CC 1302
14E	Single hole fixing with grommet and grommet nut. Has panel 'O' ring seal.	
14E	162 Series 162GB-14E etc.	
	62 Series 62GB-17P etc.	MIL-C-26482 MS 3114P etc.
17P	Single hole fixing for potting. Supplied complete with potting mould, locating ring and panel 'O' ring seal.	
	62 Series 62GB-14F etc.	MIL-C-26482 MS 3114F
14F	Single hole fixing with grommet and grommet nut fitted with integral strain relief clamp. Has panel 'O' ring seal.	
14F	162 Series 162GB-14F etc.	

Dimensions and Mounting Details

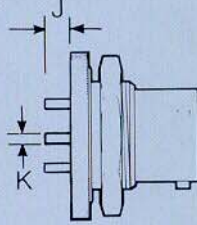
62/162 OVERALL MATED DIMENSIONS

57A (219)

Add the two relevant plug and receptacle overall dimensions and deduct — 0.365 (9.271 mm) for shell sizes 20, 22, 24

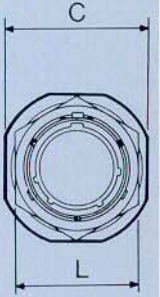
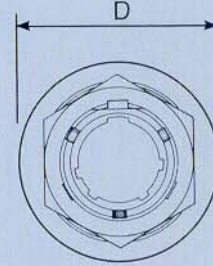
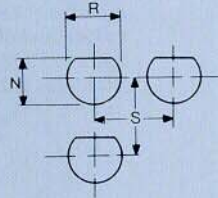
FILM WIRE TERMINATIONS

Shell size	Dimensions	
	J in mm	K in mm
08	0.173/0.133	0.030/0.028
	4.395/3.38	0.76/0.7
10	0.173/0.133	0.030/0.028
	4.395/3.38	0.76 /0.7
12	0.173/0.133	0.030/0.028
	4.395/3.38	0.76 /0.7
14	0.173/0.133	0.030/0.028
	4.395/3.38	0.76 /0.7
16	0.173/0.133	0.030/0.028
	4.395/3.38	0.76 /0.7
18	0.173/0.133	0.030/0.028
	4.395/3.38	0.76 /0.7



57A (219)

— 0.303 (7.696mm) for all other sizes



5016, 5005
5024

SINGLE HOLE FIXING RECEPTACLES PANEL PIERCING DETAILS

Shell size	Mounting hole dia. ±0.005 (±0.127)	Mounting hole crs. min.	Diameter across flat ±0.005 (±0.127)	Panel thickness min. max.	
				R in mm	S in mm
8	0.572	1.250	0.540	0.062	0.125
	14.53	31.75	13.72	1.575	3.175
10	0.697	1.359	0.665	0.062	0.125
	17.70	34.52	16.89	1.575	3.175
12	0.885	1.531	0.828	0.062	0.125
	22.48	38.885	21.03	1.575	3.175
14	1.010	1.656	0.952	0.062	0.125
	25.65	42.06	24.18	1.575	3.175
16	1.135	1.781	1.076	0.062	0.125
	28.83	45.24	27.33	1.575	3.175
18	1.260	1.891	1.201	0.062	0.125
	32.00	48.03	30.50	1.575	3.175
20	1.385	2.031	1.326	0.062	0.250
	35.18	51.59	33.68	1.575	6.35
22	1.510	2.156	1.451	0.062	0.250
	38.35	54.76	36.855	1.575	6.35
24	1.635	2.277	1.576	0.062	0.250
	41.45	57.835	40.03	1.575	6.35

Shell size	Overall length max. A						5016 in mm	5005 in mm
	(62)	(162)	(62)	(162)	57A 5024	5016		
08	1.344	1.355	1.762	1.759	1.391	0.978	—	—
	34.14	34.42	44.75	44.68	35.33	24.84	—	—
10	1.344	1.355	1.762	1.759	1.391	0.978	1.067	0.887
	34.14	34.42	44.75	44.68	35.33	24.84	27.61	22.53
12	1.344	1.355	1.762	1.759	1.391	0.978	—	—
	34.14	34.42	44.75	44.68	35.33	24.84	—	—
14	1.344	1.355	1.736	1.733	1.391	0.978	—	—
	34.14	34.42	44.095	44.02	35.33	24.84	—	—
16	1.344	1.355	1.876	1.873	1.391	0.978	—	—
	34.14	34.42	47.65	44.575	35.33	24.84	—	—
18	1.344	1.355	1.876	1.873	1.391	0.978	—	—
	34.14	34.42	47.65	44.575	35.33	24.84	—	—
20	1.576	1.576	2.118	2.105	1.641	1.048	—	—
	40.03	40.03	53.8	53.47	41.68	26.62	—	—
22	1.576	1.576	2.118	2.105	1.641	1.048	—	—
	40.03	40.03	53.8	53.47	41.68	26.62	—	—
24	1.609	1.609	2.250	2.247	1.674	1.048	—	—
	40.87	40.87	57.15	57.075	42.52	20.62	—	—

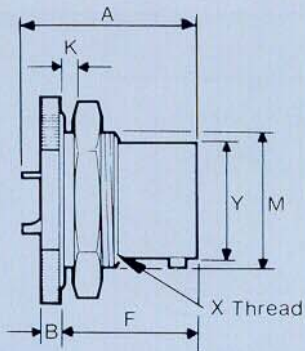
Shell Size	Flange thickness ±0.005 (±0.127)		Flange dimensions max. sq	Flange Dia. max.	Mounting flange location ±0.005 (±0.127)	Overall rear dia. (max.)			Cable sleeve int. dia. ±0.005 (±0.127)	Fixing nut A/F	Fixing nut thread	Thread flat +0.000 -0.005 (-0.127)	Shell ext. dia. max.	Cable entry dia. min.
	B	C				D	G	H						
08	0.117	0.942	57A	0.830	0.706	14E	14F	17P	0.156	0.750	3/16-24 NEF	0.527	0.473	0.260
	2.97	23.93	—	21.08	17.93	18.11	21.03	14.53	3.96	19.05	—	13.3	12.025	6.60
10	0.117	1.067	57A	0.880	0.706	14E	14F	17P	0.188	0.875	1/8-24 NEF	0.652	0.590	0.463
	2.97	27.10	—	22.35	17.93	21.29	22.63	16.915	4.775	22.225	—	16.56	14.99	11.76
12	0.117	1.255	57A	1.130	0.706	14E	14F	17P	0.312	1.062	7/8-20 UNEF	0.815	0.750	0.557
	2.97	31.875	—	28.70	17.93	24.46	25.805	20.88	7.925	26.975	—	20.70	19.05	14.15
14	0.117	1.380	57A	1.260	0.706	14E	14F	17P	0.375	1.187	1-20 UNEF	0.939	0.875	0.590
	2.97	35.05	—	32.00	17.93	27.625	28.97	23.06	9.525	30.15	—	23.85	22.225	14.99
16	0.117	1.505	57A	—	0.706	14E	14F	17P	0.500	1.312	1 1/8-18 NEF	1.063	1.000	0.713
	2.97	38.225	—	—	17.93	30.81	30.555	26.415	12.7	33.32	—	27.00	25.40	18.11
18	0.117	1.630	57A	—	0.706	14E	14F	17P	0.625	1.437	1 1/4-18 NEF	1.188	1.125	0.835
	2.97	41.40	—	—	17.93	33.975	36.22	29.59	15.875	36.50	—	30.175	28.575	21.21
20	0.148	1.817	57A	—	0.894	14E	14F	17P	0.625	1.562	1 3/8-18 NEF	1.313	1.250	1.015
	3.76	46.15	—	—	22.71	37.16	36.22	32.64	15.875	38.675	—	33.35	31.75	25.78
22	0.148	1.942	57A	—	0.894	14E	14F	17P	0.750	1.687	1 1/2-18 NEF	1.438	1.375	1.015
	3.76	49.33	—	—	22.71	40.325	39.80	35.56	19.05	42.85	—	36.53	34.925	25.78
24	0.148	2.067	57A	—	0.927	14E	14F	17P	0.800	1.812	1 5/8-18 NEF	1.563	1.500	1.265
	3.76	52.50	—	—	23.55	43.51	44.07	39.115	20.32	46.05	—	39.70	38.10	32.13

Hermetic Seal Receptacles

Description

Amphenol Part No.

Military No.

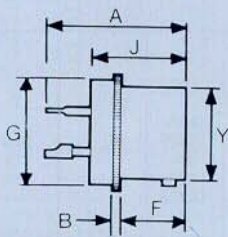


17H

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

62 Series
62GB-17H etc.

MIL-C-26482
MS 3114H etc.

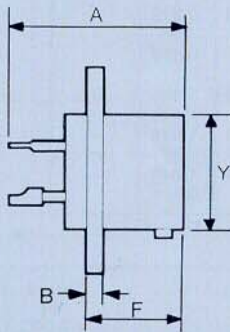


13H

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

62 Series
62GB-13H etc.

MIL-C-26482
MS 3113H etc.



12H

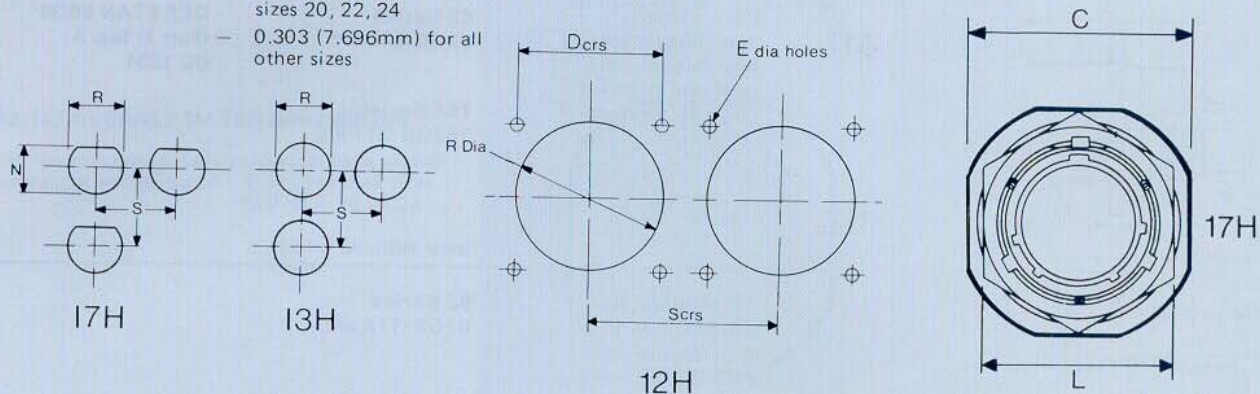
4-hole square mounting with exposed solder buckets or flattened and pierced pins.

62 Series
62GB-12H etc.

Dimensions and Mounting Details

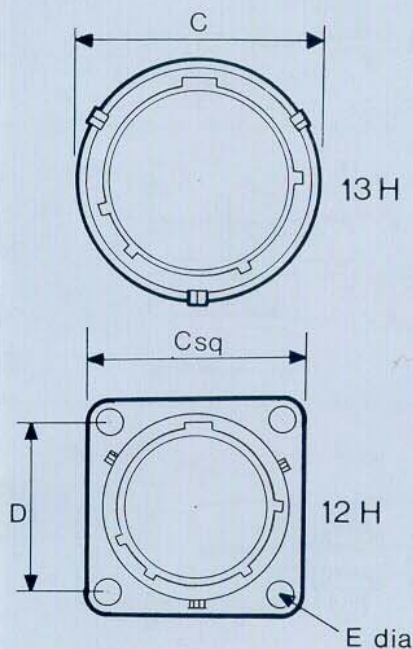
62/162 OVERALL MATED DIMENSIONS -

Add the two relevant plug and receptacle overall dimensions and deduct - 0.365 (9.271mm) for shell sizes 20, 22, 24
 - 0.303 (7.696mm) for all other sizes



PANEL PIERCING DETAILS

Shell size	Mounting hole dia. ± 0.005 (±0.127)			Hole crs.		Mounting hole crs. min.	Fixing hole dia. ± 0.008 (+0.203) -0.022 (-0.951)	Dimension across flat ± 0.005 (±0.127)		Panel thickness over screw	Panel thickness min. max.		
	R			D	S			E	N		W	K	
	12H	13H	17H	12H	in			12H	17H		12H	17H	in
08	0.565	0.578	0.572	0.594	1.250	0.120	0.540	0.100	0.062	0.125			
	14.47	14.68	14.53	14.99	31.75	3.05	13.72	2.54	1.57	3.18			
10	0.695	0.687	0.697	0.719	1.359	0.120	0.665	0.100	0.062	0.125			
	17.53	17.45	17.70	18.29	34.52	3.05	16.89	2.54	1.57	3.18			
12	0.864	0.797	0.885	0.812	1.531	0.120	0.828	0.100	0.062	1.125			
	21.84	20.24	22.48	20.57	38.89	3.05	21.03	2.54	1.57	3.18			
14	0.989	0.922	1.010	0.906	1.656	0.120	0.952	0.100	0.062	0.125			
	25.15	23.42	25.65	23.11	42.06	3.05	24.18	2.54	1.57	3.18			
16	1.113	1.047	1.135	0.969	1.781	0.120	1.076	0.100	0.062	0.125			
	28.19	26.59	28.83	24.64	45.24	3.05	27.33	2.54	1.57	3.18			
18	1.238	1.172	1.260	1.062	1.891	0.120	1.201	0.100	0.062	0.125			
	31.49	29.77	32.00	26.92	48.03	3.05	30.51	2.54	1.57	3.18			
20	1.363	1.266	1.385	1.156	2.031	0.120	1.326	0.210	0.062	0.250			
	34.54	32.16	35.18	29.46	51.59	3.05	33.68	5.33	1.57	6.35			
22	1.488	1.390	1.510	1.250	2.156	1.120	1.451	0.210	0.062	0.250			
	37.85	35.31	38.35	31.75	54.76	3.05	36.86	5.33	1.57	6.35			
24	1.615	1.516	1.635	1.375	2.277	0.147	1.576	0.210	0.062	0.250			
	41.15	38.51	41.53	35.05	57.84	3.81	40.03	5.33	1.57	6.35			



Shell size	Overall length max			Flange thickness			Flange dimension max			Mounting flange location			Fixing nut A/F L	Overall rear dia max G	Overall shell length max J	Thread flat max M (-0.127)	Shell ext. dia. max Y	Fixing nut thread X
	12H	A	17H	12H	B	17H	12H	C	17H	12H	F	17H						
	in	in	in	in	in	in	in	in	in	in	in	in						
08		0.828	0.828		0.036	0.094	0.817	0.630	0.942		0.426	0.706	0.750	0.562	0.592	0.527	0.473	1/8-24 NEF
		21.03	21.03		0.91	2.39	20.83	16.00	23.93		10.82	17.93	19.05	14.27	15.04	13.39	12.01	
10		0.828	0.828		0.036	0.094	0.942	0.755	1.067		0.426	0.706	0.875	0.672	0.592	0.652	0.590	1/8-24 NEF
		21.03	21.03		0.91	2.39	23.88	19.18	27.10		10.82	17.93	22.23	17.07	15.04	16.56	14.99	
12		0.828	0.828		0.036	0.094	1.036	0.849	1.255		0.426	0.706	1.062	0.781	0.592	0.815	0.750	3/8-20 UNEF
		21.03	21.03	0.062	0.91	2.39	26.42	21.56	31.88	0.505	10.82	17.93	26.97	19.84	15.04	20.70	19.05	
14	0.828	0.828	0.828	1.57	0.036	0.094	1.130	0.974	1.380	12.83	0.426	0.706	1.187	0.906	0.592	0.939	0.875	1-20 UNEF
	21.03	21.03	21.03		0.91	2.39	28.70	24.74	35.05		10.82	17.93	30.15	23.01	15.04	23.85	22.23	
16		0.828	0.828		0.036	0.094	1.223	1.099	1.505		0.426	0.706	1.312	1.031	0.592	1.063	1.000	1 1/8-18 NEF
		21.03	21.03		0.91	2.39	30.99	27.91	38.23		10.82	17.93	33.32	26.19	15.04	27.00	25.40	
18		0.828	0.828		0.036	0.094	1.317	1.223	1.630		0.426	0.706	1.437	1.156	0.592	1.188	1.125	1 1/8-18 NEF
		21.03	21.03		0.91	2.39	33.53	31.06	41.40		10.82	17.93	36.50	29.36	15.04	30.18	28.58	
20		0.890	0.890		0.036	0.125	1.442	1.317	1.817		0.488	0.894	1.562	1.250	0.654	1.313	1.250	1 1/8-18 NEF
		22.61	22.61		0.91	3.18	36.58	33.45	46.15	0.654	12.40	22.71	39.67	31.75	16.61	33.35	30.75	
22	0.890	0.890	0.890	0.093	0.036	0.125	1.567	1.443	1.942	16.61	0.488	0.894	1.687	1.375	0.686	1.438	1.375	1 1/8-18 NEF
	22.61	22.61	22.61	2.36	0.91	3.18	39.88	36.65	49.33		12.40	22.71	42.85	34.93	16.61	36.53	34.93	
24		0.890	0.890		0.036	0.125	1.692	1.567	2.067		0.686	0.927	1.812	1.500	0.719	1.563	1.500	1 1/8-18 NEF
		22.61	22.61		0.91	3.18	42.93	39.80	52.50	17.42	13.23	23.55	46.02	38.10	18.26	39.70	38.10	

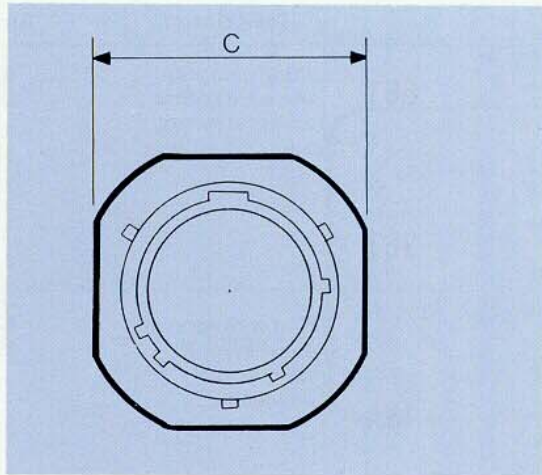
Cable Mounting Receptacles

Description	Amphenol Part No.	Military No.		
	51T	Basic cable mounting receptacle with threaded shell to accept standard cable accessories.	62 Series 62GB-51T etc. 162 Series 162GB-31T etc.	DEF STAN 59-35 (Part 1) Sec. 3 CC 1304
	11A	Cable mounting receptacle with general duty back shell. No grommet supplied.	62 Series 62GB-11A etc.	
	11E	Cable mounting receptacle with grommet and grommet nut.	62 Series 62GB-11E etc.	MIL-C-26482 MS 3111E etc.
	11E		162 Series 162GB-11E etc.	MS 3121E, etc.
	11F	Cable mounting receptacle with grommet and grommet nut fitted with integral strain relief clamp.	62 Series 62GB-11F etc.	MIL-C-26482 MS 3111F, etc.
	11F		162 Series 162GB-11F etc.	MS 3121F, etc.
	11P	For potted seal, supplied complete with detachable potting mould and location ring.	62 Series 62GB-11P etc.	MIL-C-26482 MS 3111P etc.
	11J	With cable clamp for unscreened jacketed cable. No grommet supplied.	62 Series 62GB-11J etc.	

Dimensions and Mounting Details

-62/162 OVERALL MATED DIMENSIONS

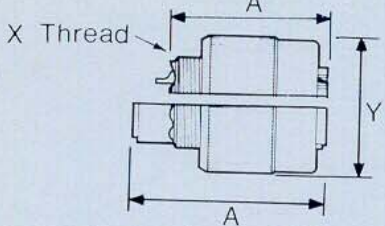
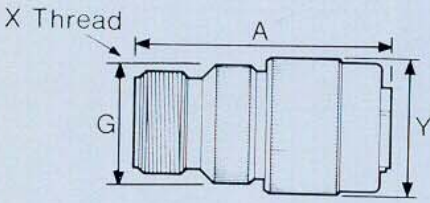
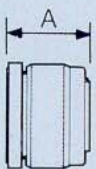
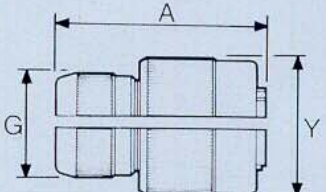
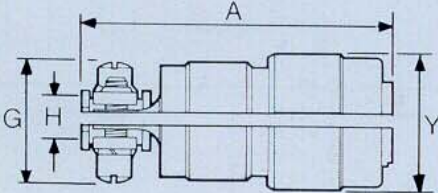
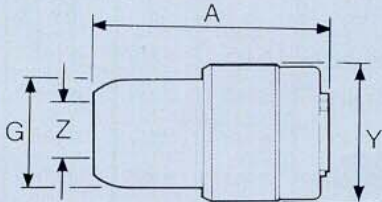
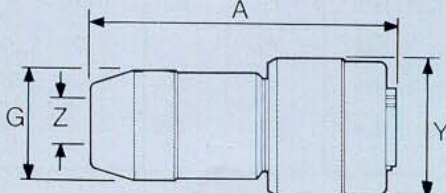
Add the two relevant plug and receptacle overall dimensions and deduct—
 0.365 for shell sizes (9.271) 20,22,24
 — 0.303 for all other sizes (7.696)



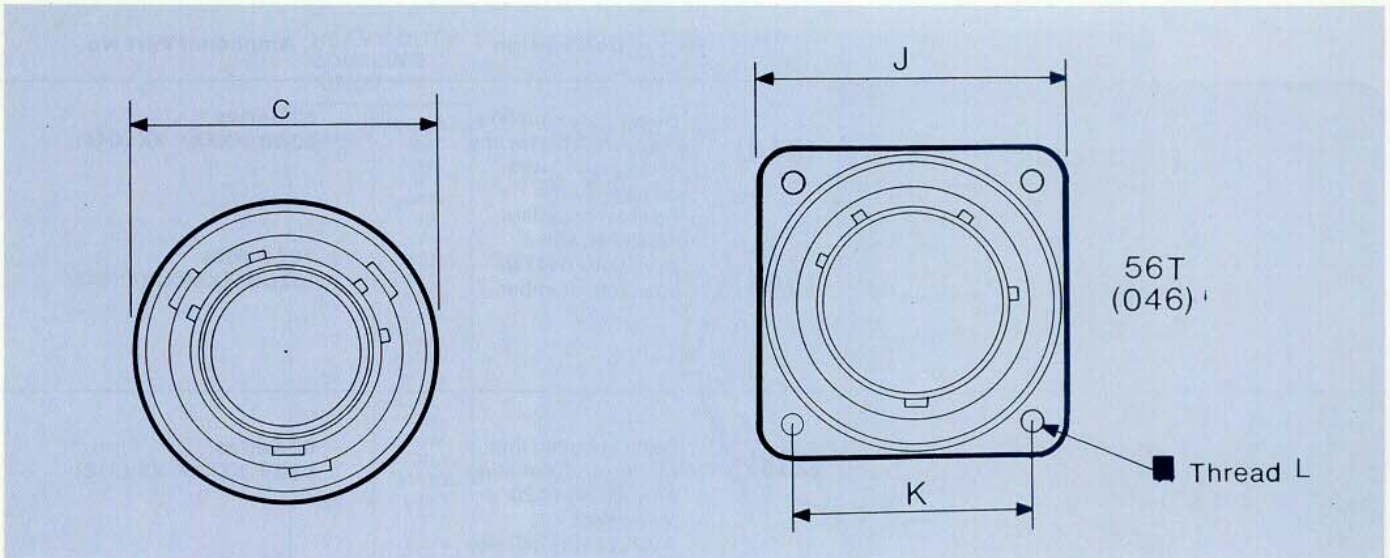
Shell Size	'A' Overall Length max.									Thread X 11A only
	51T	31T	11J	11A	(62) 11E	(162) 11E	(62) 11F	(162) 11F	11P	
	in	in	in	in	in	in	in	in	in	
08	0.978	1.286	1.846	1.624	1.281	1.320	1.762	1.759	1.316	1/8-28 UNEF
	24.84	32.665	46.89	41.25	32.54	33.53	44.75	44.68	33.43	
10	0.978	1.286	1.846	1.624	1.281	1.320	1.762	1.759	1.425	3/8-24 NEF
	24.84	32.665	46.89	41.25	32.54	33.53	44.75	44.68	36.195	
12	0.978	1.286	1.947	1.624	1.281	1.320	1.762	1.759	1.394	3/8-20 UNEF
	24.84	32.665	49.45	41.25	32.54	33.53	44.75	44.68	35.41	
14	0.978	1.286	2.147	1.624	1.281	1.320	1.736	1.733	1.394	1-20 UNEF
	24.84	32.665	54.535	41.25	32.54	33.53	44.095	44.02	35.41	
16	0.978	1.286	2.347	1.624	1.281	1.320	1.876	1.873	1.394	1-16-18 NEF
	24.84	32.665	59.61	41.25	32.54	33.53	47.65	47.575	35.41	
18	0.978	1.286	2.547	1.624	1.281	1.320	1.876	1.873	1.394	1-16-18 NEF
	24.84	32.665	64.695	41.25	32.54	33.53	47.65	47.575	35.41	
20	1.048	1.348	2.831	1.687	1.383	1.382	2.118	2.115	1.612	1-7/16-18 NEF
	26.62	34.24	71.905	42.85	35.13	35.10	53.80	53.72	40.945	
22	1.048	1.348	3.031	1.687	1.383	1.382	2.118	2.115	1.612	1-7/16-18 NEF
	26.62	34.24	76.99	42.85	35.13	35.10	53.80	53.72	40.945	
24	1.048	1.348	3.074	1.730	1.383	1.382	2.250	2.247	1.674	1-7/16-18 NEF
	26.62	34.24	78.03	43.94	35.13	35.10	57.15	57.07	42.52	

Shell size	Flange thickness ±0.005 (±0.127) B	Flange dimensions max. sq. C	Flange location ±0.005 (±0.127) F	Overall rear diameter max. G			Cable sleeve int. dia. ±0.005 (±0.127) H	Thread X	Shell ext. dia. max. Y	Cable entry diameter Z		
	in mm	in mm	in mm	11F in mm	11E, 11A and 11J in mm	11P in mm	11F in mm	51T,31T	in mm	min. 11P in mm	min closed 11J in mm	max. free 11J in mm
08	0.094 2.39	0.817 20.75	0.415 10.54	0.828 21.03	0.561 14.25	0.572 14.53	0.156 3.96	7/16-28 UNEF	0.473 12.025	0.260 6.60	0.168 4.275	0.230 5.84
10	0.094 2.39	0.942 23.925	0.415 10.54	0.891 22.63	0.686 17.425	0.666 16.915	0.188 4.775	9/16-24 NEF	0.590 14.99	0.463 11.76	0.205 5.205	0.312 7.925
12	0.094 2.39	1.036 26.315	0.415 10.54	1.016 25.805	0.811 20.60	0.822 20.88	0.312 7.925	1 1/16-24 NEF	0.750 19.05	0.557 14.15	0.338 8.585	0.442 11.23
14	0.094 2.39	1.130 28.70	0.415 10.54	1.141 28.97	0.936 23.775	0.907 23.04	0.375 9.525	1 1/8-20 UNEF	0.875 22.225	0.590 14.99	0.416 10.565	0.539 13.69
16	0.094 2.39	1.223 31.065	0.415 10.54	1.203 30.555	1.061 26.95	1.040 26.415	0.500 12.7	1 1/8-20 UNEF	1.000 25.40	0.713 18.11	0.550 13.97	0.616 15.65
18	0.094 2.39	1.317 33.45	0.415 10.54	1.426 36.22	1.186 30.125	1.165 29.59	0.625 15.875	1 1/16-18 NEF	1.125 28.575	0.835 22.21	0.600 15.24	0.672 17.07
20	0.104/0.100 2.64 /2.55	1.442 36.63	0.535 13.59	1.426 36.22	1.311 33.30	1.285 32.64	0.625 15.875	1 3/8-18 NEF	1.250 31.75	1.015 25.78	0.635 16.13	0.747 18.975
22	0.104/0.100 2.64 /2.55	1.567 39.80	0.535 13.59	1.567 39.80	1.436 36.745	1.400 35.56	0.750 19.05	1 5/8-18 NEF	1.375 34.925	1.015 25.78	0.670 17.02	0.846 21.49
24	0.104/0.100 2.64 /2.55	1.692 42.98	0.560/0.574 14.225/14.58	1.735 44.07	1.561 39.65	1.540 39.115	0.800 20.32	1 7/8-18 NEF	1.500 38.10	1.265 32.13	0.740 18.80	0.894 22.71

Plugs

	Description	Amphenol Part No.	Military No.
	<p>56T Basic plug with threaded shell to accept standard cable accessories.</p>	<p>62 Series 62GB-56T etc.</p>	<p>DEF STAN 59-35 (Part 1) Sec. 3 CC 1305</p>
<p>36T</p>	<p>162 Series 162GB-36T etc.</p>		
	<p>16A Plug with general duty backshell. No grommet provided.</p>	<p>62 Series 62GB-16A etc.</p>	
	<p>56T (046) Box-mounting plug. Available for shell size 16; other sizes to special order. Cable accessories cannot be fitted.</p>	<p>62 Series 62GB-56T16-XX (046)</p>	
	<p>16E Plug with grommet and grommet nut.</p>	<p>62 Series 62GB-16E etc.</p>	<p>MIL-C-26482 MS 3116E etc.</p>
<p>16E</p>	<p>162 Series 162GB-16E etc.</p>	<p>MS3126E, etc.</p>	
	<p>16F Plug with grommet and grommet nut fitted with integral strain relief clamp.</p>	<p>62 Series 62GB-16F etc.</p>	<p>MIL-C-26482 MS 3116F etc.</p>
<p>16F</p>	<p>162 Series 162GB-16F etc.</p>	<p>MS3126F, etc.</p>	
	<p>16P For potted seal. Supplied complete with detachable potting mould and location ring.</p>	<p>62 Series 62GB-16P etc.</p>	<p>MIL-C-26482 MS3116P, etc.</p>
	<p>16J Plug with cable clamp for unscreened jacketed cable. No grommet supplied.</p>	<p>62 Series 62GB-16J etc.</p>	

Dimensions and Mounting Details



Shell size	Overall length (max.)									
	56T	36T	16F	A		16J	(62)	(162)	56T	
	in	in	n	in	in	in	in	in	in	in
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
08	0-976	1-277	1-752	1-614	1-306	1-836	1-281	1-310	—	—
	24-79	32-44	44-50	40-995	33-17	46-635	32-54	33-27	—	—
10	0-976	1-277	1-752	1-614	1-415	1-836	1-281	1-310	—	—
	24-79	32-44	44-50	40-995	35-94	46-635	32-54	33-27	—	—
12	0-976	1-277	1-752	1-614	1-384	1-937	1-281	1-310	—	—
	24-79	32-44	44-50	40-995	35-15	49-20	32-54	33-27	—	—
14	0-976	1-277	1-726	1-614	1-384	2-137	1-281	1-310	—	—
	24-79	32-44	43-84	40-995	35-15	54-28	32-54	33-27	—	—
16	0-976	1-277	1-866	1-614	1-384	2-337	1-281	1-310	1-150	—
	24-79	32-44	47-40	40-995	35-15	59-36	32-54	33-27	29-21	—
18	0-976	1-277	1-866	1-614	1-384	2-537	1-281	1-310	—	—
	24-79	32-44	47-40	40-995	35-15	64-45	32-54	33-27	—	—
20	0-976	1-277	2-045	1-614	1-539	2-758	1-281	1-310	—	—
	24-79	32-44	51-94	40-995	39-09	70-05	32-54	33-27	—	—
22	0-976	1-277	2-045	1-614	1-539	2-958	1-281	1-310	—	—
	24-79	32-44	51-94	40-995	39-09	75-13	32-54	33-27	—	—
24	0-976	1-277	2-178	1-658	1-602	3-002	1-281	1-310	—	—
	24-79	32-44	55-32	42-11	40-69	76-25	32-54	33-27	—	—

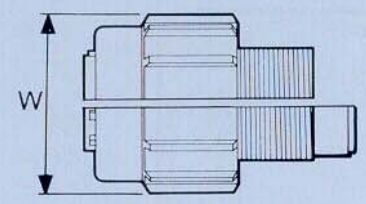
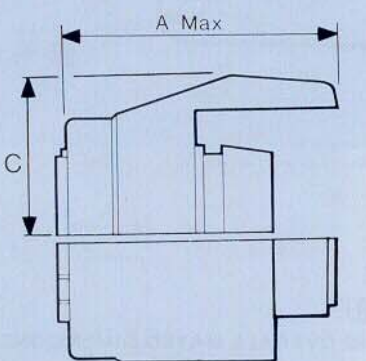
62/162 OVERALL MATED DIMENSIONS

Add the two relevant plug and receptacle overall dimensions and deduct — 0.365 (9.271 mm) for shell sizes 20, 22, 24

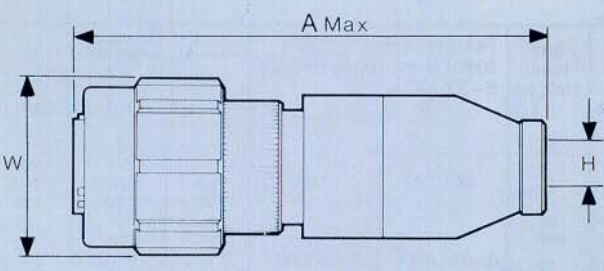
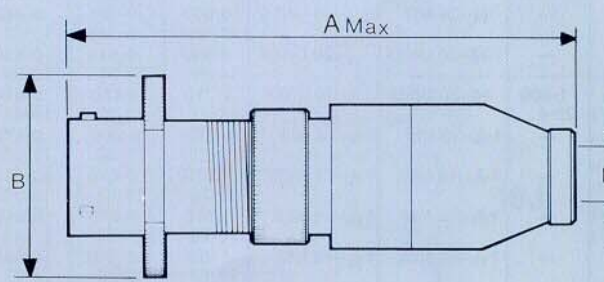
— 0.303 (7.696mm) for all other sizes

Shell size	Overall dia. max.	Coupling ring dia. max.	Overall rear dia. max.			Cable sleeve int. dia. ±0-005 (±0-127) H	56T (046) Flange dimension max. J	56T (046) Hole crs K	For shell size 16, 56T (046) only, fixing threads 6-32 NC.		Cable entry dia.		
			16E, 16A and 16J	16F	16P				Thread L	56T, 36T	16A	min. 16P	Z min. closed 16J
	in	in	in	in	in	in	in	in			in	in	in
	mm	mm	mm	mm	mm	mm	mm	mm			mm	mm	mm
08	0-750	0-750	0-561	0-828	0-572	0-156	—	—	$\frac{7}{16}$ -28 UNEF	$\frac{1}{2}$ -28 UNEF	0-260	0-168	0-230
	19-05	19-05	14-25	21-03	14-53	3-96	—	—			6-60	4-275	5-84
10	0-859	0-859	0-686	0-891	0-666	0-188	—	—	$\frac{9}{16}$ -24 NEF	$\frac{5}{8}$ -24 NEF	0-463	0-205	0-312
	21-82	21-82	17-425	22-63	16-915	4-775	—	—			11-76	5-205	7-925
12	1-031	1-031	0-811	1-016	0-822	0-312	—	—	$\frac{11}{16}$ -24 NEF	$\frac{3}{4}$ -20 UNEF	0-577	0-388	0-442
	26-19	26-19	20-60	25-805	20-88	7-925	—	—			14-15	8-585	11-23
14	1-156	1-156	0-936	1-141	0-907	0-375	—	—	$\frac{13}{16}$ -20 UNEF	$\frac{7}{8}$ -20 UNEF	0-590	0-416	0-539
	29-36	29-36	23-775	28-97	23-04	9-525	—	—			14-99	10-565	13-69
16	1-281	1-281	1-061	1-203	1-040	0-500	1-317	1-000	$\frac{15}{16}$ -20 UNEF	1-20 UNEF	0-713	0-550	0-616
	32-54	32-54	26-95	30-555	26-415	12-70	33-45	25-4			18-11	13-97	15-65
18	1-391	1-391	1-186	1-426	1-165	0-625	—	—	$1\frac{1}{16}$ -18 NEF	$1\frac{3}{16}$ -18 NEF	0-835	0-600	0-672
	35-33	35-33	30-125	36-22	29-59	15-875	—	—			22-21	15-24	17-07
20	1-531	1-531	1-311	1-426	1-285	0-625	—	—	$1\frac{3}{16}$ -18 NEF	$1\frac{3}{16}$ -18 NEF	1-015	0-635	0-747
	38-89	38-89	33-30	36-22	32-64	15-875	—	—			25-78	16-13	18-975
22	1-656	1-656	1-436	1-567	1-400	0-750	—	—	$1\frac{5}{16}$ -18 NEF	$1\frac{7}{16}$ -18 NEF	1-015	0-670	0-846
	42-06	42-06	36-745	39-80	35-56	19-05	—	—			25-78	17-02	21-49
24	1-777	1-777	1-561	1-735	1-540	0-800	—	—	$1\frac{7}{16}$ -18 NEF	$1\frac{7}{16}$ -18 NEF	1-265	0-740	0-894
	45-135	45-135	39-65	44-07	39-115	20-32	—	—			32-13	18-80	22-71

Plugs with optional coupling rings

	Description	Amphenol Part No.
	<p>(044) Heavy duty coupling ring. Available for any of the plugs listed on page 22</p> <p>(044) To order complete assembly, add deviation (044) to connector number.</p>	<p>62 Series 62GB-XXXXX-XX (044)</p> <p>162 Series 162GB-XXXXX-XX (044)</p>
	<p>(218) Lever coupling ring. Mating and unmating only requires 120° movement. Available in shell size 14 and 16 only. Other sizes to special order.</p> <p>(218)</p>	<p>62 Series 62GB-XXXXX-XX (218)</p> <p>162 Series 162GB-XXXXX-XX (218)</p>

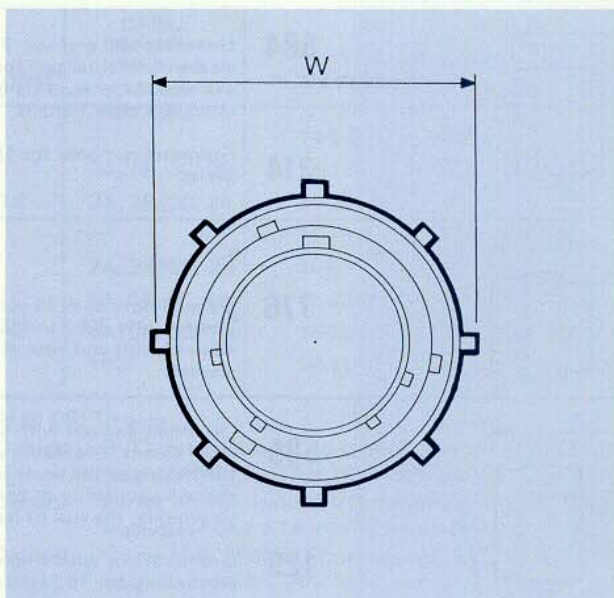
CONNECTORS FOR TINSEL CORDAGE

	<p>Audio plug. Suitable for tinsel cord. Available in shell size 10 only.</p> <p>0506</p> <p>162 Series 162GB-0506-10-6PX 162GB-0506-10-7PX</p>
	<p>Audio receptacle. Suitable for tinsel cord. Available in shell size 10 only.</p> <p>5001</p> <p>162 Series 162GB-5001-10-7SX</p>

Dimensions and Mounting Details

HEAVY DUTY COUPLING RINGS

Shell Size	Overall dia. max. W (044) in mm.
08	0-870 22-1
10	0-979 24-865
12	1-151 29-235
14	1-276 32-41
16	1-401 35-585
18	1-505 38-225
20	1-651 41-935
22	1-776 45-11
24	1-897 48-18



LEVER COUPLING RINGS

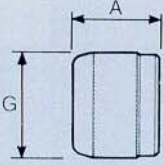
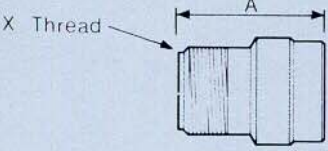
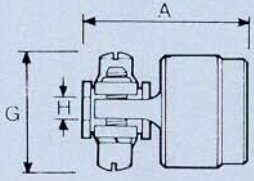
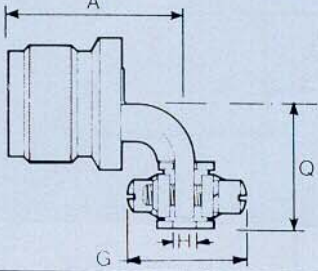
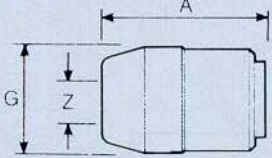
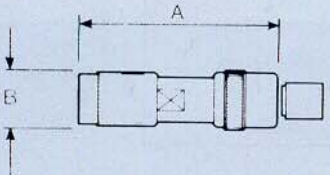
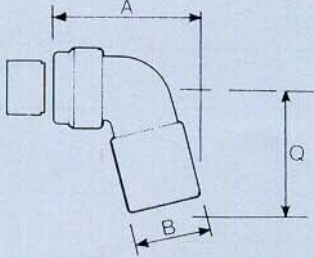
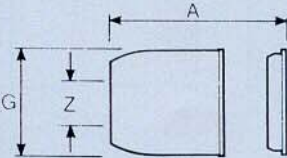
Shell size	A max. in. mm.	C max. in. mm.
14	1-444	0-787
	36-67	19-98
16	1-444	0-844
	36-67	21-43

AUDIO CONNECTORS FOR TINSEL CORD

Shell size	A max.		B dia. max.	H cable outlet min.
	162GB-0506-10-6PX 162GB-0506-10-7PX	162GB-5001-10-7SX		
	in mm	in mm	in mm	in mm
10	2-375 60-325	2-75 69-85	0-875 22-225	0-276 7-01

Cable Accessories

Suitable for all externally threaded Plug or Receptacle shells.

	Description	Amphenol Part No.
	<p>584 Grommet seal and nut. Provides an environmental seal for the exposed solder buckets in the openback class T shells.</p> <p>214 Grommet nut only for 162 Series</p>	<p>62 Series 62GB-584-XX-XP or S*</p> <p>162 Series 162GB-214-XX† For shell sizes 08-24 respectively.</p>
	<p>776 'A' type General duty shell to accept conduit, AN 3057 or MS 3057 A cable clamps and heat shrink sleeves.</p>	<p>62 Series 62GB-776-XX†</p>
	<p>585 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.</p> <p>129 Grommet nut with strain relief clamp only for 162 series.</p>	<p>62 Series 62GB-585-XX-XP or S*</p> <p>162 Series 162GB-129-XX†</p>
	<p>711 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).</p> <p>201 Grommet nut with strain relief clamp only for 162 series.</p>	<p>62 Series 62GB-711-XX-XP or S*</p> <p>162 Series 162GB-201-XX†</p>
	<p>720 Clamp for unscreened jacketed cable. Cable entry dimensions are given in the table opposite. No grommet is supplied. For use with 50T, 51T and 56T styles 62 Series only.</p>	<p>62 Series 62GB-720-XX†</p>
	<p>587 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) as specified in DEF 5325-3. These are supplied to separate order only for use with style T shells.</p> <p>151</p>	<p>62 Series 62GB-587-XX-XP or S*</p> <p>162 Series 162GB-151-XX-†-XX**</p>
	<p>5028 75° 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) as specified in DEF 5325-3. These are supplied to separate order only and are intended for use with style T shells.</p> <p>5000</p>	<p>62 Series 62GB-5028-XX-XP or S*</p> <p>162 Series 162GB-5000-XX-†-XX**</p>
	<p>586 Potting mould and ring, supplied together as a set.</p>	<p>62 Series 62GB-586-XX†</p> <p>*The suffix XX-XP or S enables the grommet to be matched to the insert arrangement (e.g. 12-3P) ** The suffix XX specifies the cable size. † The suffix XX specifies the shell size.</p>

Dimensions and Mounting Details

SJ CLAMPS

CABLES TO DEF 10 and DEF STAN 61-12 part 5 eg. DEF 10-3A or DEF STAN 16-2-3A

The 162 series clamps are identical to the 62 series clamps except that the grommet is omitted. It is however, still necessary to quote the full plan form because the piece parts vary to suit the appropriate cable.

S.J. Clamps are available in 62 series only where there is an appropriate cable to DEF 10 or DEF STAN 61-12 part 5 available for the plan form.

162 series availability is similar according to the plan forms tooled. These are marked C on the table.

PLAN-FORM	CABLE DEF 10-etc DEF STAN 16-2-etc	PLAN-FORM	CABLE DEF 10-etc DEF STAN 16-2-etc	PLAN-FORM	CABLE DEF 10-etc DEF STAN 16-2-etc
8-2	—	14-5 C	4Q [●]	18-32C	36C,25D
8-3	3A, 3B, 3C, 2B	14-12 C	12A, 12B, 12C	20-16	—
8-3 3 C	3A, 3B, 3C, 2B	14-15	—	20-41 C	36C
8-4	—	14-19 C	18A, 18B, 18C	22-21	—
10-2	2A, 2B, 2C, 2Q [●]	16-8	—	22-55	—
10-6 C	6A, 6B, 6C, 4C	16-23 C	—	24-61 C	60C
12-3 C	3A, 3B, 3C, 2Q [●]	16-26	25A, 25B, 25C	—	—
12-10	10C	18-11	—	—	—

●Applicable to DEF10 only

Type A Cables: PVC outer sheath, no overall screen, L.T. (14/.0076) unscreened cores. (equivalent DEF STAN 16-2 wire size)

Type B Cables: Outer screen, inner PVC sheath, L.T. (14/.0076) unscreened cores. (equivalent DEF STAN 16-2 wire size)

Type C Cables: Outer PVC sheath, inner screen, L.T. (14.0076) unscreened cores. (equivalent DEF STAN 16-2 wire size)

Type Q Cables: Outer screen, inner PVC sheath, L.T. (36/.012) unscreened cores. (DEF 10 only)

Part Number Examples

62GB-587-14-12P (grommet supplied)

162GB-151-14-12 (no grommet supplied)

Shell size	Overall length (max.) A						Straight SJ Clamps 62GB-587-XX-P or S 162GB-151-XX max.		75° SJ Clamps 62GB-5028-XX 162GB-5000-XX max.	
	62GB-711-XX-P or S 162GB-201-XX	62GB-720-XX in mm	62GB-585-XX-P or S 162GB-129-XX in mm	62GB-584-XX-P or S 162GB-160 to 168 in mm	62GB-776-XX in mm	62GB-586-XX in mm	length Including plug in mm	length Including receptacle in mm	length Including plug in mm	length Including receptacle in mm
08	1 1/8	1-085 27-56	0-991 25-17	0-545 13-84	0-937 23-80	0-644 16-36	2-732 69-39	2-742 69-64	2-375 60-235	2-416 61-365
10	1 3/16	1-060 26-92	0-991 25-17	0-545 13-84	0-937 23-80	0-753 19-125	2-742 69-64	2-752 69-90	2-532 64-39	2-573 65-35
12	1 1/2	1-160 29-46	0-991 25-17	0-545 13-84	0-937 23-80	0-722 18-34	3-152 80-06	3-162 80-31	2-625 66-675	2-666 67-715
14	1 5/8	1-360 34-54	0-965 24-51	0-545 13-84	0-937 23-80	0-722 18-34	3-152 80-06	3-162 80-31	2-719 69-035	2-760 70-095
16	1 7/8	1-585 40-26	1-105 28-065	0-545 13-84	0-937 23-80	0-722 18-34	3-272 83-10	3-282 83-36	2-750 69-80	2-790 70-87
18	1 7/8	1-785 45-34	1-105 28-065	0-545 13-84	0-937 23-80	0-722 18-34	—	—	—	—
20	1 7/8	1-981 50-32	1-285 32-64	0-545 13-84	0-937 23-80	0-877 22-30	3-272 83-10	3-345 84-96	3-250 82-55	3-312 84-125
22	1 7/8	2-181 55-39	1-285 32-64	0-545 13-84	0-937 23-80	0-877 22-30	—	—	—	—
24	1 7/8	2-216 56-275	1-373 34-875	0-501 12-725	0-937 23-80	0-896 22-76	3-696 93-87	3-768 95-70	3-375 85-725	3-500 88-90

Shell size	B	G dia. max.				H Cable sleeve int. dia.	Q		X	Z		
	62GB-587-XX-XP or S 162GB-151-XX 62GB-5028-XX-XP or S 162GB-5000-XX	62GB-586-XX	62GB-711-XX -P or S	62GB-584 -XX- P or S	62GB-214 -XX P or S	All SJ clamps	62GB-711-XX-X P or S	62GB-5028-XX 162GB-5000-XX	Thread	Cable entry dia.		
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	62GB-776-XX	min. in mm	min. closed in mm	max. free in mm
08	0-676 17-17	0-572 14-54	0-828 21-03	0-561 14-25	0-775 19-68	0-161 4-09	0-733 18-62	1-750 44-45	1/2-28 UNEF	0-260 6-60	0-168 4-275	0-230 5-84
10	0-676 17-17	0-666 16-915	0-891 22-63	0-686 17-425	0-902 22-91	0-193 4-90	0-795 20-19	1-875 47-625	5/8-24 NEF	0-463 11-76	0-205 5-205	0-312 7-925
12	0-812 20-62	0-822 20-88	1-016 25-805	0-811 20-60	1-030 26-16	0-317 8-05	0-858 21-79	2-125 53-975	3/4-20 UNEF	0-557 14-15	0-338 8-585	0-442 11-23
14	0-926 23-52	0-907 23-04	1-141 28-98	0-936 23-775	1-157 29-385	0-380 9-65	0-915 23-24	2-125 53-975	7/8-20 UNEF	0-590 14-99	0-416 10-565	0-539 13-69
16	1-051 26-695	1-040 26-415	1-203 30-555	1-061 26-95	1-284 32-61	0-505 12-83	1-010 25-65	2-062 52-375	1 -20 UNEF	0-713 18-11	0-550 13-97	0-616 15-65
18	—	1-165 29-59	1-426 36-22	1-186 30-125	—	0-630 16-00	1-070 27-18	—	1 3/16-18 NEF	0-835 21-21	0-600 15-24	0-672 17-57
20	1-280 32-51	1-285 32-64	1-426 36-22	1-311 33-30	1-539 39-09	0-630 16-00	1-140 28-955	2-062 52-375	1 3/8-18 NEF	1-015 25-78	0-635 16-13	0-747 18-975
22	—	1-400 35-56	1-567 39-80	1-436 36-745	—	0-755 19-175	1-170 29-72	—	1 7/8-18 NEF	1-015 25-78	0-670 17-02	0-846 21-49
24	1-620 41-15	1-540 39-12	1-735 44-07	1-561 39-65	1-783 45-29	0-805 20-45	1-260 32-00	2-187 55-55	1 7/8-18 NEF	1-265 32-13	0-740 18-80	0-894 22-71

These cable accessories are suitable for any of the externally threaded class T shells

Accessories

Description

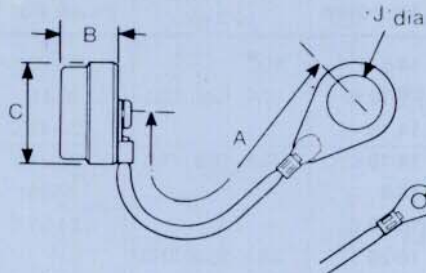
Amphenol Part No.

CAPS AND CORDS

62 Series

- Single hole fixing receptacles
- Cable mounting receptacles
- Flange mounting receptacles

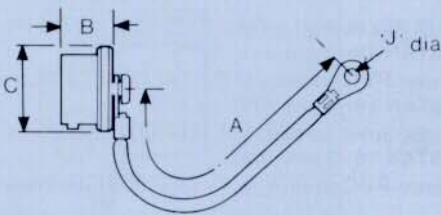
- 62GB-813-08 to 24
- 62GB-814-08 to 24
- 62GB-812-08 to 24



'J' Dia. for 62GB-812-08 to 24 only

Plugs

- 62 Series
- 62GB-810-08 to 24
- Military No.
- MS 3180

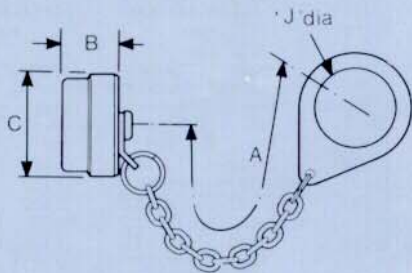


CAPS AND CHAINS

62 Series

- Single hole fixing receptacles
- Cable mounting receptacles
- Flange mounting receptacles

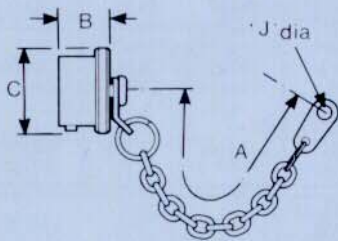
- 62GB-736-08 to 24
- 62GB-737-08 to 24
- 62GB-738-08 to 24



'J' Dia. for 62GB-738-08 to 24 only

Plugs

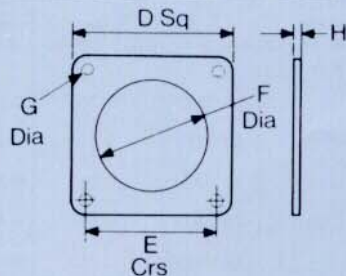
- 62 Series
- 62GB-742-08 to 24
- Military No.
- MS 3180



760

Flange mounting gasket for box mounting and hermetic receptacles

- 62 Series
- 62GB-760-08 to 24



Dimensions

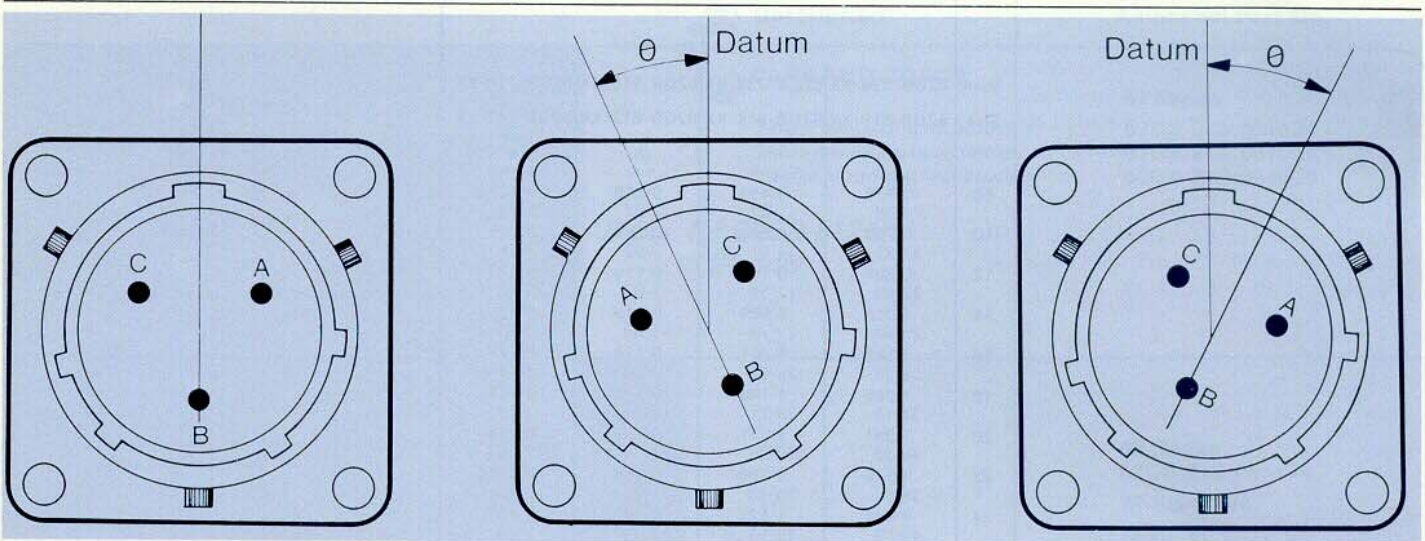
Shell	J dia. ± 0.005 (± 0.127)			
	62GB-736-XX	62GB-737-XX	62GB-810-XX	62GB-738-XX
Size	62GB-813-XX	62GB-814-XX	62GB-812-XX	62GB-742-XX
	in mm	in mm	in mm	in mm
08	0.578 14.68	0.458 11.63	0.119 3.02	0.125 3.18
10	0.703 17.86	0.583 14.81	0.119 3.02	0.125 3.18
12	0.891 22.63	0.708 17.98	0.119 3.02	0.125 3.18
14	1.016 25.81	0.896 22.76	0.119 3.02	0.125 3.18
16	1.141 29.39	1.021 25.93	0.119 3.02	0.125 3.18
18	1.266 32.16	1.146 29.11	0.119 3.02	0.125 3.18
20	1.391 35.33	1.271 32.28	0.119 3.02	0.125 3.18
22	1.516 38.51	1.396 35.46	0.119 3.02	0.125 3.18
24	1.641 41.68	1.521 38.63	0.145 3.68	0.147 3.73

Shell	Tolerance ± 0.25 (± 6.35)		A				B				C dia. (max.)			
	62GB-810-XX	62GB-814-XX	62GB-738-XX	62GB-810-XX	62GB-736-XX	62GB-812-XX	62GB-810-XX	62GB-814-XX	62GB-738-XX	62GB-812-XX	62GB-736-XX	62GB-742-XX	62GB-813-XX	62GB-737-XX
size	62GB-812-XX	62GB-736-XX	62GB-742-XX	62GB-813-XX	62GB-737-XX	62GB-814-XX	62GB-813-XX	62GB-738-XX	62GB-742-XX	62GB-814-XX	62GB-737-XX	62GB-813-XX	62GB-738-XX	62GB-742-XX
08		3.0		0.496		0.521		0.750						0.750
		76.2		12.60		13.23		19.05						0.859
10		3.0		0.496		0.521		1.281						1.281
		76.2		12.60		13.23		29.36						32.54
12		3.5		0.496		0.521		1.391						1.391
		88.9		12.60		13.23		35.33						38.88
14		3.5		0.496		0.521		1.531						1.531
		88.9		12.60		13.23		38.88						42.06
16		3.5		0.496		0.521		1.656						1.656
		88.9		12.60		13.23		42.06						45.135
18		4.0		0.558		0.521		1.777						1.777
		101.6		14.17		13.23		45.135						48.27
20		4.0		0.558		0.521								
		101.6		14.17		13.23								
22		4.0		0.558		0.556								
		101.6		14.17		14.12								

Shell	D sq.	E crs.	F dia.	G dia.	H
	62GB-760-XX	62GB-760-XX	62GB-760-XX	62GB-760-XX	
size	(± 0.254)	(± 0.254)	(± 0.406)	(± 0.254)	
08	0.812 20.62	0.594 15.08	0.500 12.70	0.130 3.30	0.032/0.016 0.81/0.40
10	0.938 23.82	0.719 18.26	0.625 15.87	0.130 3.30	0.032/0.016 0.81/0.40
12	1.031 26.18	0.813 20.65	0.750 19.05	0.130 3.30	0.032/0.016 0.81/0.40
14	1.125 28.57	0.906 23.01	0.875 22.22	0.130 3.30	0.032/0.016 0.81/0.40
16	1.219 30.96	0.969 24.61	1.000 25.40	0.130 3.30	0.032/0.016 0.81/0.40
18	1.312 33.32	1.063 27.00	1.125 28.57	0.130 3.30	0.032/0.016 0.81/0.40
20	1.438 36.52	1.156 29.36	1.250 31.75	0.130 3.30	0.032/0.016 0.81/0.40
22	1.563 39.70	1.250 31.75	1.375 34.92	0.130 3.30	0.032/0.016 0.81/0.40
24	1.688 42.87	1.375 34.92	1.500 38.10	0.156 3.96	0.032/0.016 0.81/0.40

Insert Orientations

For MIL-C-26482 and replacement purposes
in patt. 105 of DEF STAN 59-35 (Part 1) Sec. 3.



Normal position
with pin contacts

Alternative position of insert
with socket contacts
(ø counterclockwise)

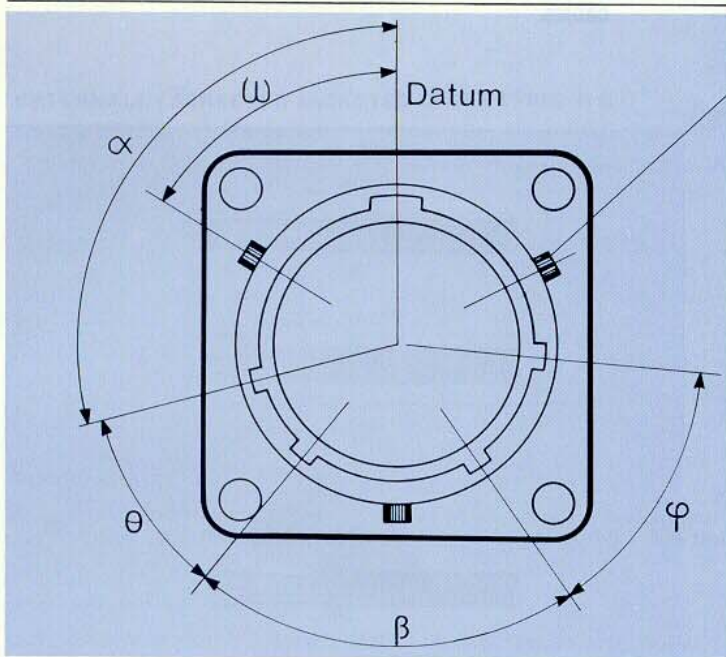
Alternate position of insert
with pin contacts
(ø clockwise)

Each diagram shows mating face of insert.

Insert arrangement	Normal	Orientation θ (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	-
16-8	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 patt. 105 DEF STAN 59-35 (Part 1) Sec. 3.



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 α (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	75	120	35	35	35	35	35	30	50	75	75	75	75	75	100	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	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 against Pattern 105 but available for replacement purposes. Superseded in DEF STAN 59-35 (Part 1) Sec. 3. by orientations E and F.

Assembly instructions for Amphenol straight S.J. clamps to DEF STAN 59-35 (Part 1) Sec. 3 for internally and externally screened and unshielded cables.

INTERNALLY SCREENED JACKETED CABLE 'TYPE C'

CABLE AND WIRE STRIPPING

Strip the outer P.V.C. Jacket of the cable back to dim 'A' to expose the internal braid. Trim the braid back to within 19.05mm (0.75 in) of P.V.C. jacket and fold back 'B'.

SIZE	A Dimension	
	mm	in
08	34.93	1.375
10	36.51	1.437
12&14	41.27	1.625
16&20	44.45	1.75
24	49.21	1.937

FOR 62 SERIES

Strip 5.3mm (0.210 in) to 6.1mm (0.240 in) of insulation from each wire to expose centre conductor. Tin the ends. If ends fray twist them back to their original lay before tinning.

FOR 162 SERIES

Strip 5.6mm (0.220 in) to 6.6mm (0.260 in) of insulation from each wire taking care not to cut or nick strands. If ends fray twist them back to their original lay.

INITIAL ASSEMBLY

Slide onto the cable the following items in this order (1) Nut (2) Washer (3) Gasket (4) Braid Clamp and (5) Clamp Body.

(6) Grommet, 62 Series only.

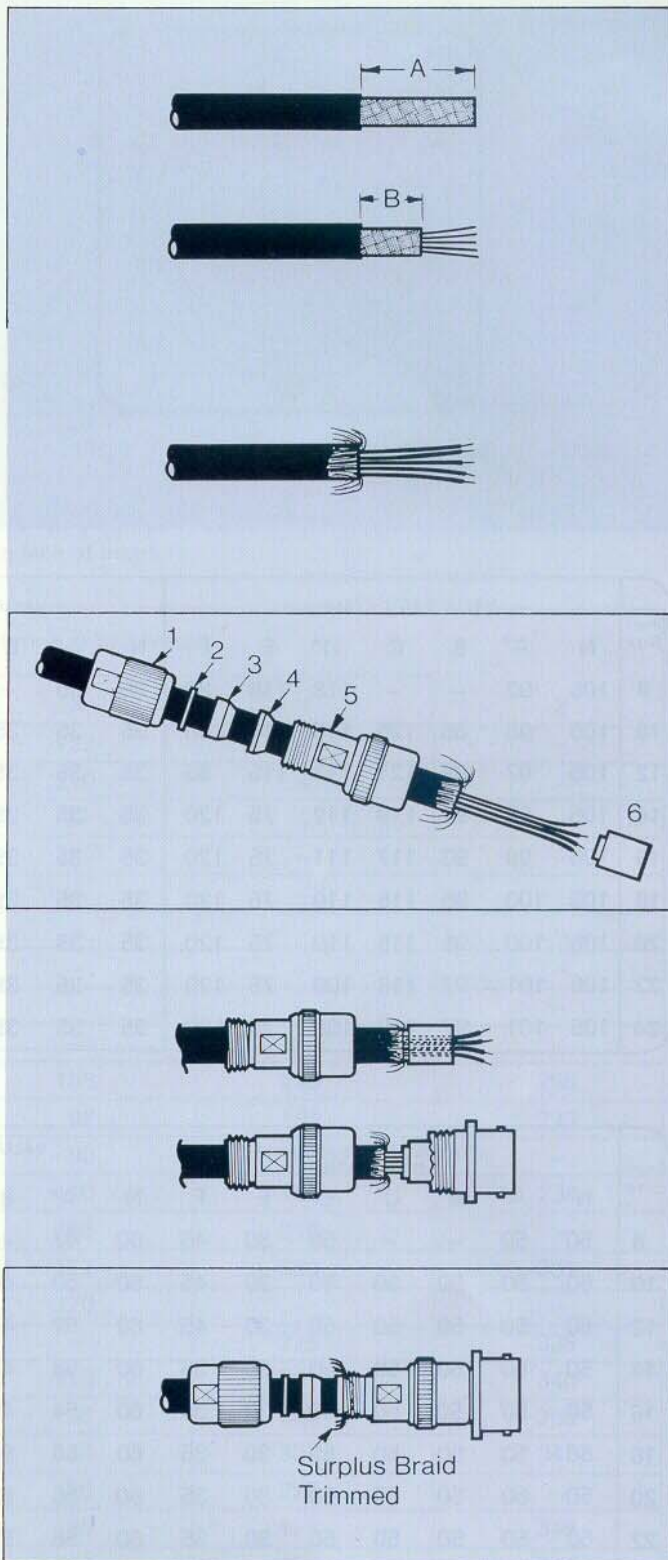
SOLDER CONNECTION TO CONTACTS (62 SERIES)

Insert the individual wires into the appropriate grommet holes. At the same time, slide the grommet back as far as possible until the tinned ends of the centre conductors are far enough out of the grommet to permit soldering to the contacts. Insert the tinned ends of wires into the appropriate contacts in 62 series connector and solder into place. Slide the grommet forward over the wired contacts and press firmly into rear of connector shell and against rear face of insert.

CRIMP CONNECTION TO CONTACTS (162 SERIES)

Using the recommended tools, crimp the contacts to the wires and insert them in the connector as described in the Amform instructions, which are supplied with each 162 series assembly.

Bring up clamp body taking care not to drag the braid forward. (If necessary a small amount of thin tape may be used to hold the braid in position whilst carrying out this operation). Screw the clamp body onto the connector accessory thread, making sure that the connector serrations engage with those on clamp body. Fold the braid out at right angles to the cable and slide forward the braid clamp. Smooth back braid onto the braid clamp and trim off the surplus. Slide up gasket, washer, screw on nut and tighten.



EXTERNALLY SCREENED JACKETED CABLE TYPES 'B & Q'

CABLE AND WIRE STRIPPING

Strip the outer braid and internal P.V.C. jacket of the cable back to dim 'A'

SIZE	A Dimension	
	mm	in
08	33.32	1.312
10	34.93	1.375
12&14	39.7	1.563
16&20	42.85	1.687
24	47.63	1.875

FOR 62 SERIES

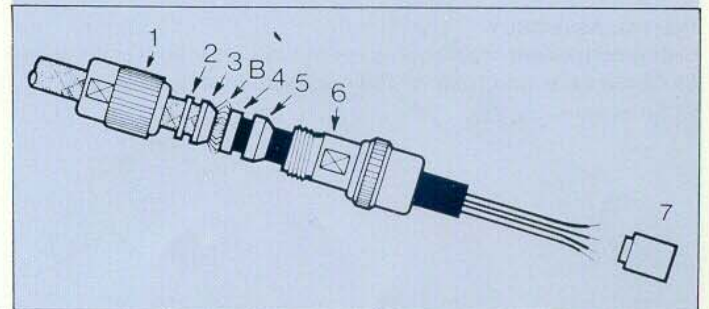
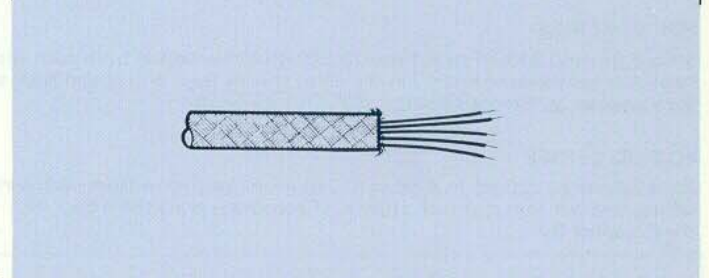
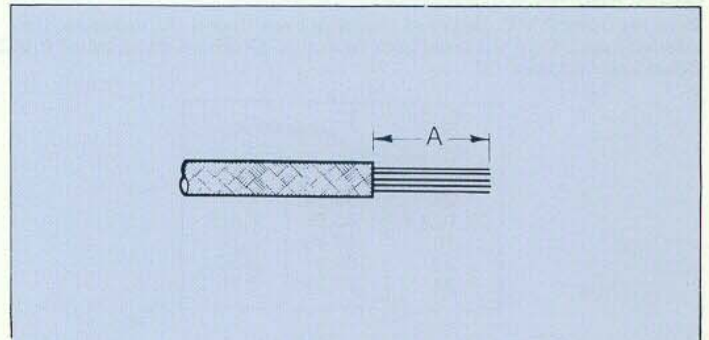
Strip 5.3mm (0.210 in) to 6.1mm (0.240 in) of insulation from each wire to expose centre conductor. Tin the ends. If ends fray twist them back to their original lay before tinning.

FOR 162 SERIES

Strip 5.6mm (0.220) to 6.6mm (0.260 in) of insulation from each wire taking care not to cut or nick strands. If ends fray twist them back to their original lay.

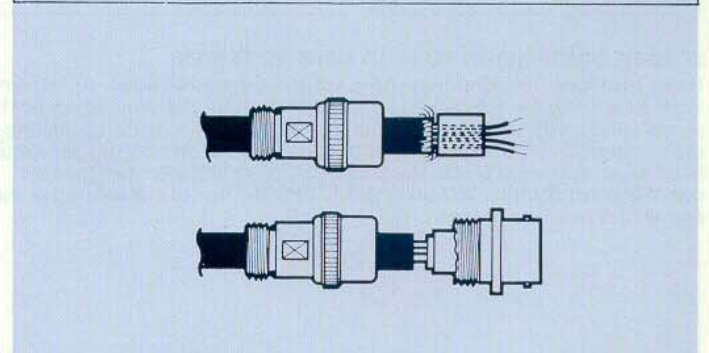
INITIAL ASSEMBLY

Slide onto the cable the following items in this order (1) Nut (2) Washer (3) Male Braid Clamp Convolute Screen (See B) as far as possible, and slide on items (4) Female Braid Clamp (5) Gasket and (6) Clamp Body (7) Grommet, 62 Series only.



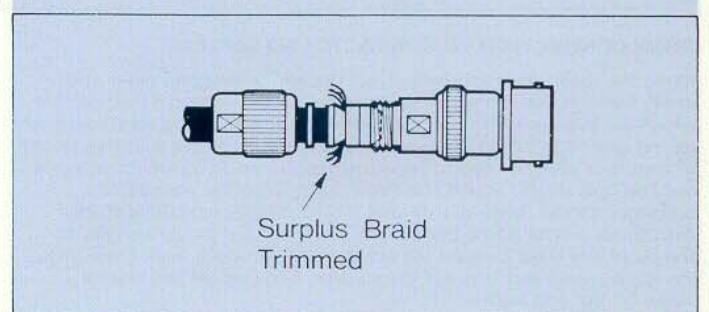
SOLDER CONNECTION TO CONTACTS (62 SERIES)

Insert the individual wires into the appropriate grommet holes. At the same time, slide the grommet back as far as possible, until the tinned ends of the centre conductors are far enough out of the grommet to permit soldering to the contacts. Insert the tinned ends of wires into the appropriate contacts in 62 series connector and solder into place. Slide the grommet forward over the wired contacts and press firmly into the rear of connector shell and against rear face of insert.



CRIMP CONNECTION TO CONTACTS (162 SERIES)

Using the recommended tools, crimp the contacts to the wires and insert them in the connector as described in the Amform instructions, which are supplied with each 162 series assembly. Bring up clamp body and screw onto the connector accessory thread, making sure that the connector serrations engage with those on clamp body. Slide forward gasket and female braid clamp. Push forward screen and fold out at right angles braid which does not return to original position. Slide up male braid clamp. Smooth back braid onto male braid clamp and trim off surplus. Slide up washer. Screw on nut and tighten.



UNSCREENED JACKETED CABLES TYPE A'

All procedures concerning this type of cable to be as for internally screened jacketed cable, but all references to screen (Braid) to be disregarded.

Assembly instructions for Amphenol angled S.J. clamps to DEF STAN 59-35 (Part 1) Sec. 3 for internally and externally screened and unscreened cables.

INTERNALLY SCREENED JACKETED CABLE 'TYPE C'

CABLE AND WIRE STRIPPING

Strip the outer P.V.C. jacket of the cable back to dim 'A' to expose the internal braid. Trim the braid back to within 19.05mm (0.75 in) of P.V.C. jacket and fold back 'B'

Size	A Dimension	
	mm	in
08	58.15	2.89
10,12,14	66.68	2.625
16	69.85	2.75
20	88.9	3.50
24	95.25	3.75

FOR 62 SERIES

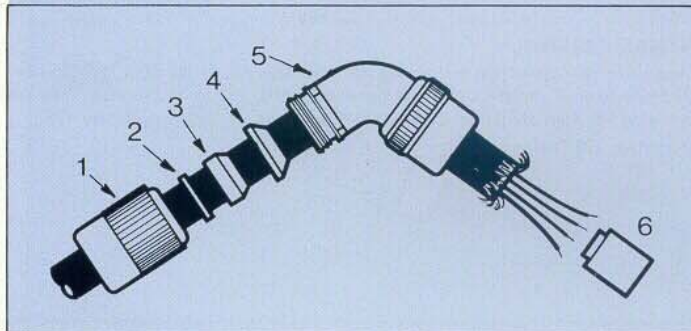
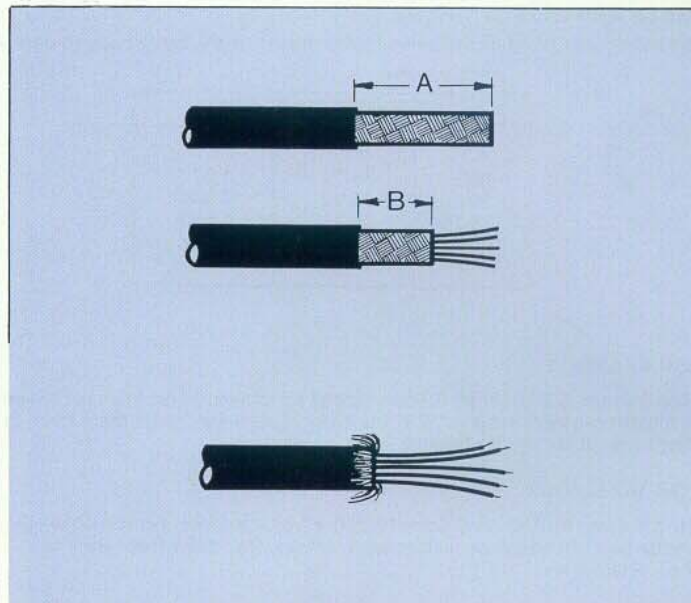
Strip 5.3mm (0.210 in) to 6.1 mm (0.240 in) of insulation from each wire to expose centre conductor. Tin the ends. If ends fray, twist them back to their original lay before tinning.

FOR 162 SERIES

Strip 5.6mm (0.220 in) to 6.6mm (0.260 in) of insulation from each wire taking care not to cut or nick strands. If ends fray, twist them back to their original lay.

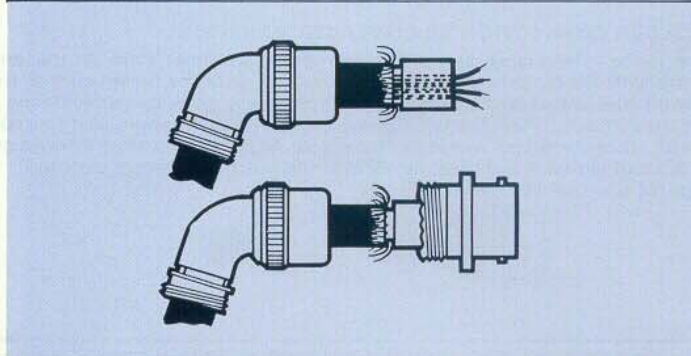
INITIAL ASSEMBLY

Slide onto the cable the following items in this order (1) Nut (2) Washer (3) Gasket (4) Braid Clamp (5) 75° Angled Body (6) Grommet, 62 Series only.



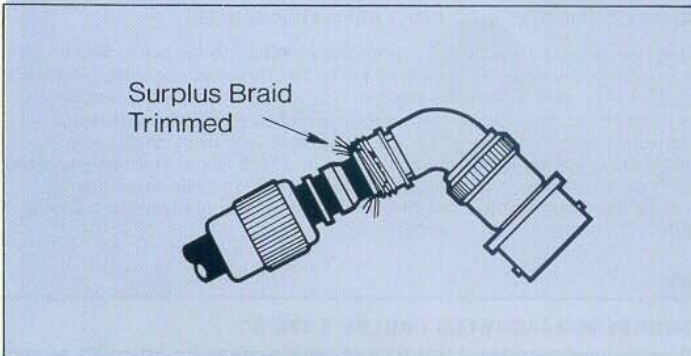
SOLDER CONNECTION TO CONTACTS (62 SERIES)

Insert the individual wires into the appropriate grommet holes. At the same time, slide the grommet back as far as possible, until the tinned ends of the centre conductors are far enough out of the grommet to permit soldering to the contacts. Insert the tinned ends of wires into the appropriate contacts in 62 series connector and solder into place. Slide the grommet forward over the wired contacts and press firmly into the rear of the connector shell and against rear face of insert.



CRIMP CONNECTION TO CONTACTS (162 SERIES)

Using the recommended tools crimp the contacts to the wires and insert them in the connector as described in the Amform instructions, which are supplied with each 162 series assembly. Bring up clamp body taking care not to drag the braid forward. (If necessary a small amount of thin tape may be used to hold the braid in position whilst carrying out this operation). Screw the clamp body onto the connector accessory thread, making sure that the connector serrations engage with those on the clamp body. Fold the braid out at right angles to the cable and slide forward the braid clamp. Smooth back braid onto the braid clamp and trim off the surplus. Slide up gasket, washer, screw on nut and tighten.



62GB and 162GB Assembly Instructions

EXTERNALLY SCREENED JACKETED CABLES TYPES 'B & Q'

CABLE AND WIRE STRIPPING

Strip the outer braid and internal P.V.C. jacket of the cable back to dim 'A'.

SIZE	A Dimension	
	mm	in
08	58.15	2.89
10,12,14	66.68	2.625
16	69.85	2.75
20	88.9	3.50
24	95.25	3.75

FOR 62 SERIES

Strip 5.3mm (0.210in) to 6.1mm (0.240in) of insulation from each wire to expose centre conductor. Tin the ends. If ends fray, twist them back to their original lay before tinning.

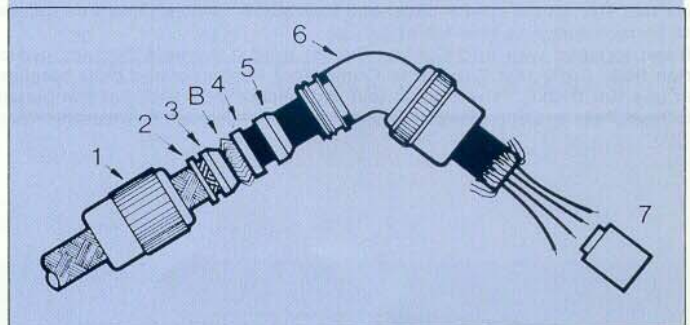
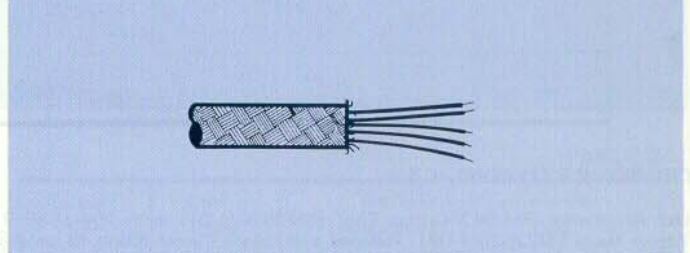
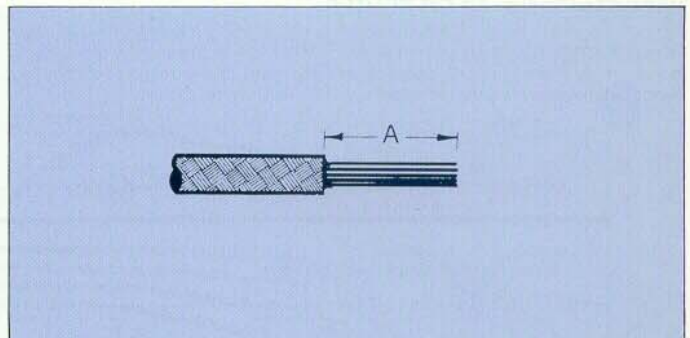
FOR 162 SERIES

Strip 5.6mm (0.220 in) to 6.6mm (0.260 in) of insulation from each wire taking care not to cut or nick strands. If ends fray twist them back to their original lay.

INITIAL ASSEMBLY

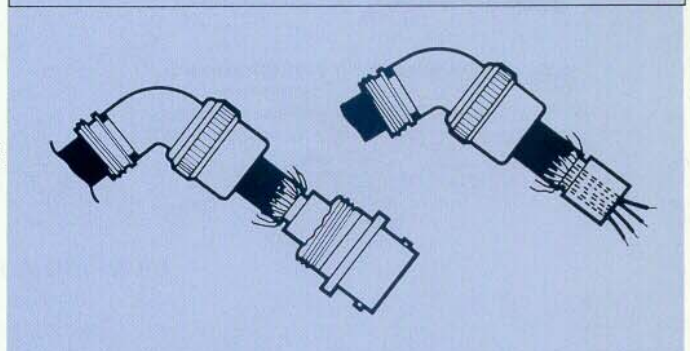
Slide onto the cable the following items in this order:-

- (1) Nut (2) Washer (3) Male Braid Clamp - Convolute Screen (See B) as far as possible and slide on items:- (4) Female Braid Clamp (5) Gasket (6) 75° Right Angled Body (7) Grommet, 62 Series only.



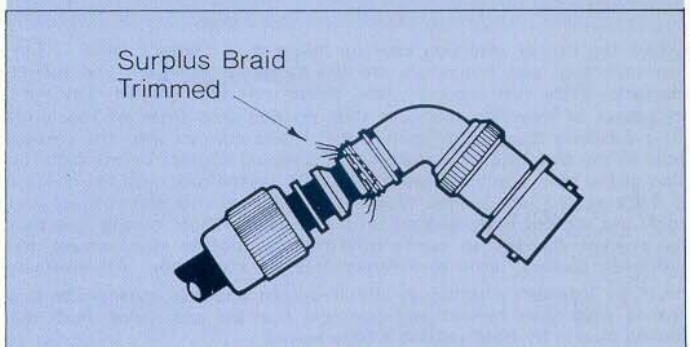
SOLDER CONNECTION TO CONTACTS (62 SERIES)

Insert the individual wires into the appropriate grommet holes. At the same time, slide the grommet back as far as possible, until the tinned ends of the centre conductors are far enough out of the grommet to permit soldering to the contacts. Insert the tinned ends of wires into the appropriate contacts in 62 series connector and solder into place. Slide the grommet forward over the wired contacts and press firmly into the rear of connector shell and against rear face of insert.



CRIMP CONNECTION TO CONTACTS (162 SERIES)

Using the recommended tools, crimp the contacts to the wires and insert them in the connector as described in the Amform instructions which are supplied with each 162 series assembly. Bring up clamp body taking care not to drag the braid forward. (If necessary a small amount of thin tape may be used to hold the braid in position whilst carrying out this operation). Screw the clamp body onto the connector accessory thread, making sure that the connector serrations engage with those on clamp body. Fold the braid out at right angles to the cable and slide forward the braid clamp. Smooth back braid onto the braid clamp and trim off surplus. Slide up gasket, washer, screw on nut and tighten.



UNSCREENED JACKETED CABLES 'TYPE A'

All procedures concerning this type of cable to be as for internally screened jacketed cable, but all references to screen (Braid) to be disregarded.

62GB and 162GB Assembly Instructions

WIRE STRIPPING 62 GB SERIES

Strip 5.3mm (.210in) to 6.1mm (.240in) of insulation from end of wires to expose centre conductor and tin the ends. If ends fray, twist them back to their original lay before tinning.

WIRE STRIPPING 162 GB SERIES

Strip 5.6mm (.220 in.) to 6.6mm (.260 in.) of insulation from end of wire for both size 20 and 16 contacts taking care not to cut or nick strands. If ends fray twist them back to their original lay.

CONTACT AND WIRE DATA 162 GB SERIES

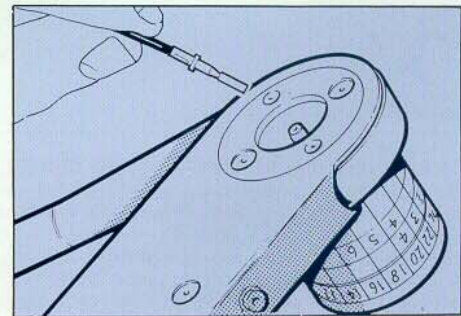
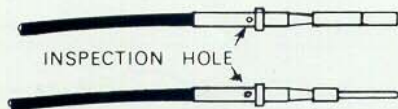
Contact Size	Colour Code	Contact part nos.	Suitable wire sizes		Permissible insulation O.D. range for grommet sealing	Stripping lengths
			A.W.G.	in mm		
20	RED	pin: 162GB-149-20,000-05 skt: 162GB-101-20,000-05	20,22;24	0.032 - 0.020	0.047-0.085 1.19-2.16	0.220 - 0.260 5.6 - 6.6
				0.81 - 0.51		
16	BLUE	pin: 162GB-149-16,000-05 skt: 162GB-101-16000-05	16,18;20	0.051-0.032	0.066-0.109 1.675 - 2.77	0.220-0.260 5.6 - 6.6
				1.295 - 0.81		

CRIMP WIRE TO CONTACT

Use Amphenol 294-542 Crimp Tool [M22520/1-01] with 294-1889-01 Turret Head [M22520/1-02]. Release and rotate Turret Knob to proper contact size (as per colour code) and lock adjust Selector Knob on handle to correct wire size (see table). Insert stripped wire into Contact Pocket until it is visible through inspection hole. Fully seat Contact in Crimp Tool Positioner and close handles in one full stroke. (The Ratchet will not release until tool has completed full stroke). Inspect Crimp for wire visibility through Inspection Hole.

CRIMPING JAW SETTING

Contact Size	Wire Size	Crimp Jaw Setting
20	24	No. 2
	22	No. 3
	20	No. 4
16	20	No. 4
	18	No. 5
	16	No. 6



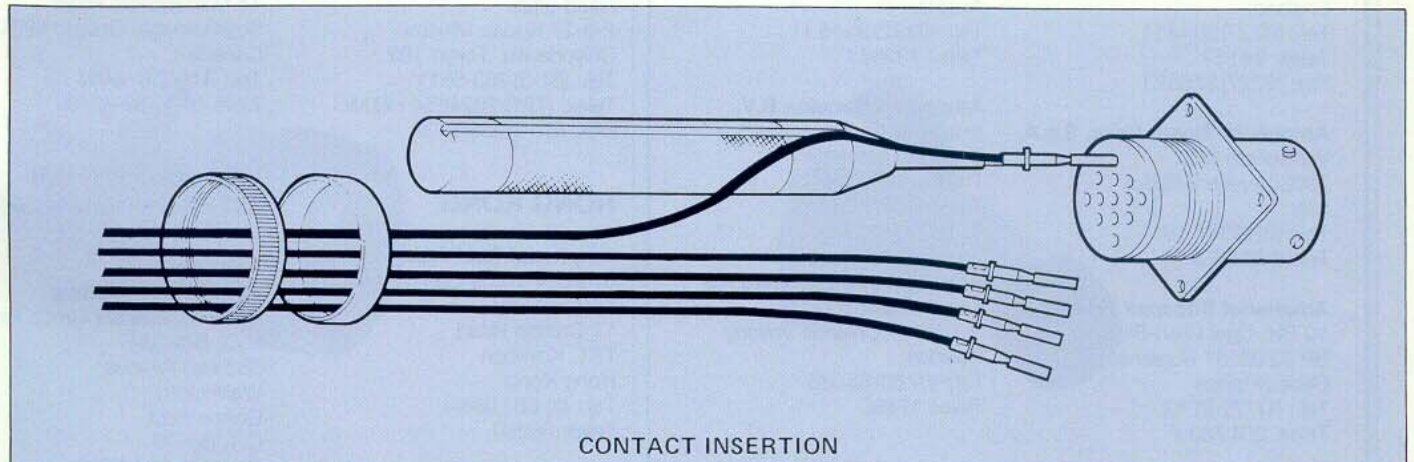
CRIMPING WIRE TO CONTACT

CONTACT INSERTION

Select the proper insertion tool for the size of contact table 1. The insertion tool and procedure are the same for both pin and socket contacts. Slide rear accessory and sleeve over wire bundle. Lay wire in groove of insertion tool and slide contact into front of tool until it is properly located in tool probe. Insert contact into the correct hole in the rear face of the grommet. Keeping contact in line with the axis of the hole, apply a smooth even push on the tool until the contact is fully seated in position. Note: it is essential that the contact and tool are correctly aligned with the axis of hole during insertion to prevent damage to contacts. Withdraw tool at right angles to grommet surface until completely free of connector. All contacts must be inserted whether in circuit or not and the appropriate size sealing plug used behind any contacts that are not wired. Push the sealing plug in by hand until it is fully seated.

TABLE 1

Contact Size	Colour Code	Insertion tool part number	Grommet Sealing Plug
		Amphenol	M.S.
20	RED	294GB-5000-20	—
16	BLUE	294-96	MS 24256A-16
			162GB-130-20000
			162GB-130-16000



CONTACT INSERTION

CONTACT REMOVAL

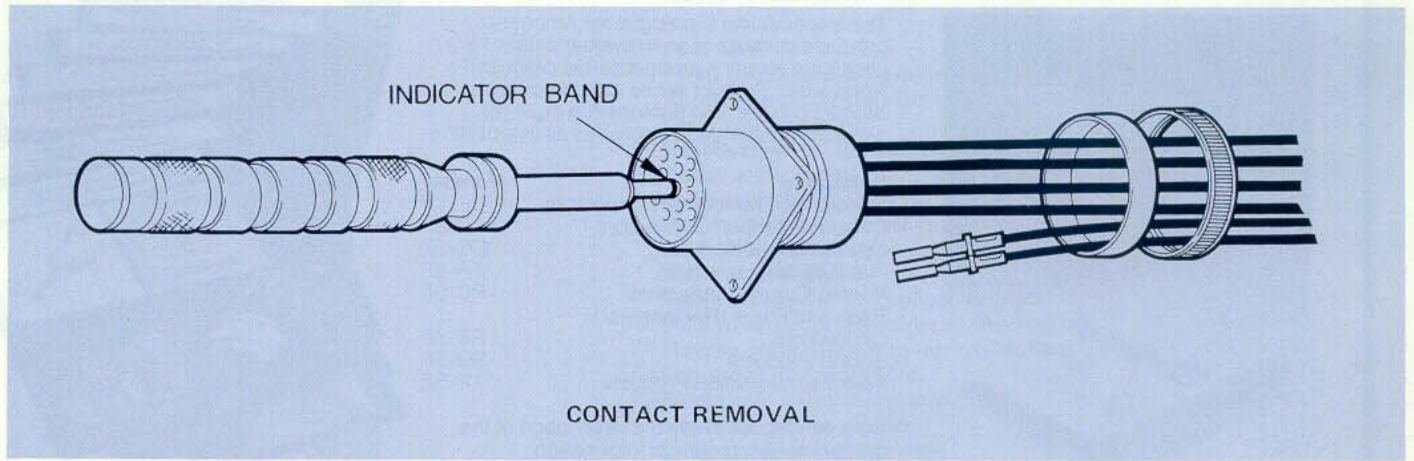
CAUTION: extra care is required in this operation to prevent damage to the connector.

Remove the rear accessory and sleeve and slide back on wire bundle. Select the proper removal tool for the size of contact from table 2. The same tool is used for both pin and socket contacts. Position the removal tool over the contacts to be removed and push until tool probe is fully bottomed, shown when indicator band enters insert hole. Tool is inserted to first band only when removing pin contacts and to second band for socket contacts removal. Slide the plunger knob forward to remove contact.

TABLE 2

Contact Size	Colour Code	*Removal tool part number	
		Amphenol	M.S.
20	RED	294-89	MS 24256R-20
16	BLUE	294-97	MS 24256R-16

Details of operator training are available from Amphenol upon request.



CONTACT REMOVAL

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International Catalogue System

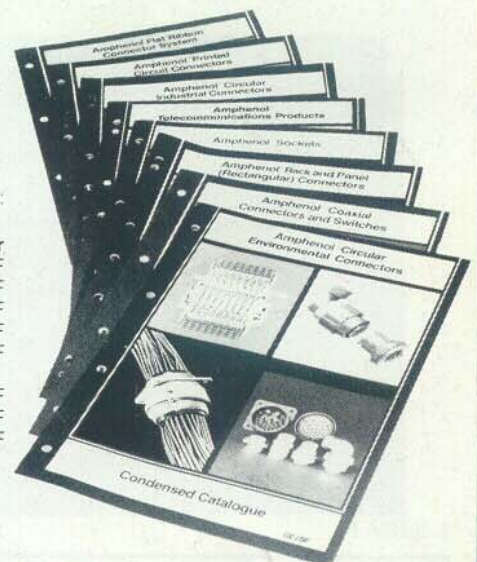


Amphenol products produced worldwide are shown in four product catalogue binders.

The International Catalogue for Amphenol products consists of an individual data catalogue for each product series produced world-wide. Product series are combined by product groups, and published in eight (8) separate condensed catalogues as listed below:

Catalogue	Number
Circular Environmental Connectors	CE-SF
Circular Industrial Connectors	CI-SF
Coaxial Connectors	CC-SF
Flat Ribbon Connectors	FR-SF
Printed Circuit Connectors	PC-SF
Rack and Panel (Rectangular) Connectors	RP-SF
Socket Products	SO-SF
Telecommunication Products	TP-SF

Data catalogues contain a description of the product series, technical information, specification data, dimensions and part numbers. A data catalogue or a condensed catalogue can be obtained from any international location listed above. When ordering state the catalogue number.



Eight Condensed Catalogues illustrate the products by series designation.

NOTICE

Products are sold subject to Amphenol's conditions of sale ("the standard conditions"). All specifications and statements contained herein are believed to be correct at the time of printing, but no representation or warranty, express or implied, is given as to any specification or statement contained herein. Product specifications including performance characteristics are typical only and subject to deviation. Specifications are also subject to change without notice. User should not assume that all safety measures are indicated or that other measures may not be required. No representation or warranty, express or implied, is given that any use of products (including any stated or suggested use) does not infringe any patent, registered design or other third party rights and no stated or suggested use of products can be taken to recommend any such infringement.

Amphenol

an LPL company