602 GB Series

CE19

High temperature Miniature Bayonet Lock Connectors with rear insertable, rear release crimp contacts. Connectors to EL 2112 Patt. 602 DEF STAN 59-56 & PAN 6432 -1 & -4.

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Amphenol 602 GB Series
Connectors to EL 2112 Patt. 602
DEF STAN 59-56 & PAN 6432-1 & -4

The specifications herein are given only for the guidance of trade customers. The company's policy is one of continual development and improvement of its products and accordingly the company reserve the right at any time to alter such specifications without notice. No information contained herein is intended to constitute an offer of sale or reply and each prospective customer of any product should satisfy himself before purchase that the product is suitable for his requirements.

While the information in this catalogue is restricted to standard connectors in accordance with published military and national specifications, Amphenol have developed, and have under development, a number of 602 series products for special applications. If you cannot find a product in this catalogue to suit your requirements please do not hesitate to get in touch with the factory for the latest information on new product developments. 602GB connectors are high performance environmental circular connectors for the most demanding requirements of civil and military applications. Operating from -65°C to +200°C: resisting solvents and fluids likely to be encountered including heavy salt spray in ship-borne aircraft: and finally meeting the exhaustive climatic proving of BS 2G100 Part 2 Class 1.

They are directly compatible with connectors to MIL-C-26482 Series 2, which supersedes MIL-C-83723 Series 1.

Derating
When connectors to different specifications are intermated (e.g. Pattern 602 and MIL-C-26482 Series 11, the combination must not be operated under conditions more severe than the less stringent clause of either specification.

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Other Circular Connector Series

62GB solder miniature bayonet lock connectors
A range of 62GB connectors are qualified to BS 9522 F001 7, DEF STAN 59-35 (Part 1) Sec. 3 Patt. 105 and MIL-C-26482E.

162GB crimp miniature bayonet lock connectors
162GB connectors are designed to qualify to BS 9522 N0001 , the successor to DEF 5326-3 (prov) Patt. 603 1 62GB connectors are qualified to BS 9522 F0038.

Merlin I 118 Series high performance miniature bayonet lock connectors
The series features a rear insertable, rear release individual contact retention system with a single piece dielectric The series are qualified to MIL-C-83723 Series 1 and MIL-C-26482 Series II. Operating temperature range is -55°C to +200°C.

Merlin II 418 Series high performance miniature bayonet lock connectors
High density miniature circular connectors sharing the polymeric ICR system of other Amphenol Merlin devices Available in 50% and 100% no scoop versions to MIL-C-38999 and complying with European specifications LN 0029 729 and UTE C 93/422 Model HE306.

Merlin III 518 Series high performance miniature bayonet lock connectors
The series also benefits from a one piece all dielectric ICR system reducing connector parts from 122 to 12 in the 10-6 and 24-61 configurations. There is also a marked increase in contact dielectric separation. Qualified to MIL-C-26500 and MIL-C-83723 Series III.

EMI/RFI/EMP filter connectors 482 Series miniature bayonet lock connectors
Amphenol's EMI filtering connectors provide the efficiency of a built-in filter with the reliability of a high performance miniature connector and the advantages of crimp poke-home contacts. The connectors are electrically and environmentally comparable with connectors to DEF STAN 59-35 (Part. 1) Sec 3 Patt. 105, MIL-C-26482 and BS 9522 N0001 the successor to DEF 5326-3 (prov.) Patt, 603.

48 Series miniature screw coupling or bayonet lock connectors
48 Series connectors meet or exceed the requirements of MIL-C-26500 and MIL-C-38300. The connectors are sealed against extreme environments and utilise front release, rear insertable Poke Home Contacts.

348 Series high density connectors
Sub-miniature general purpose connectors to MIL-C-8151 1 utilising a single piece dielectric retention system. Basic constructions available are 50% and 100% scoop-proof.

97 Series standard screw coupling MS connectors
97 Series connectors are Amphenol's exclusive A and B construction to MIL-C-5015 and supersede the original AN range.

Hermetic seal connectors
Amphenol one piece glass to metal receptacles with pin contacts are available in a range of styles in Series 62GB 172. 179. 48. 348, 182 Series. Facilities available for customers' special designs.

Cables 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. DIA/5754/58. 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.

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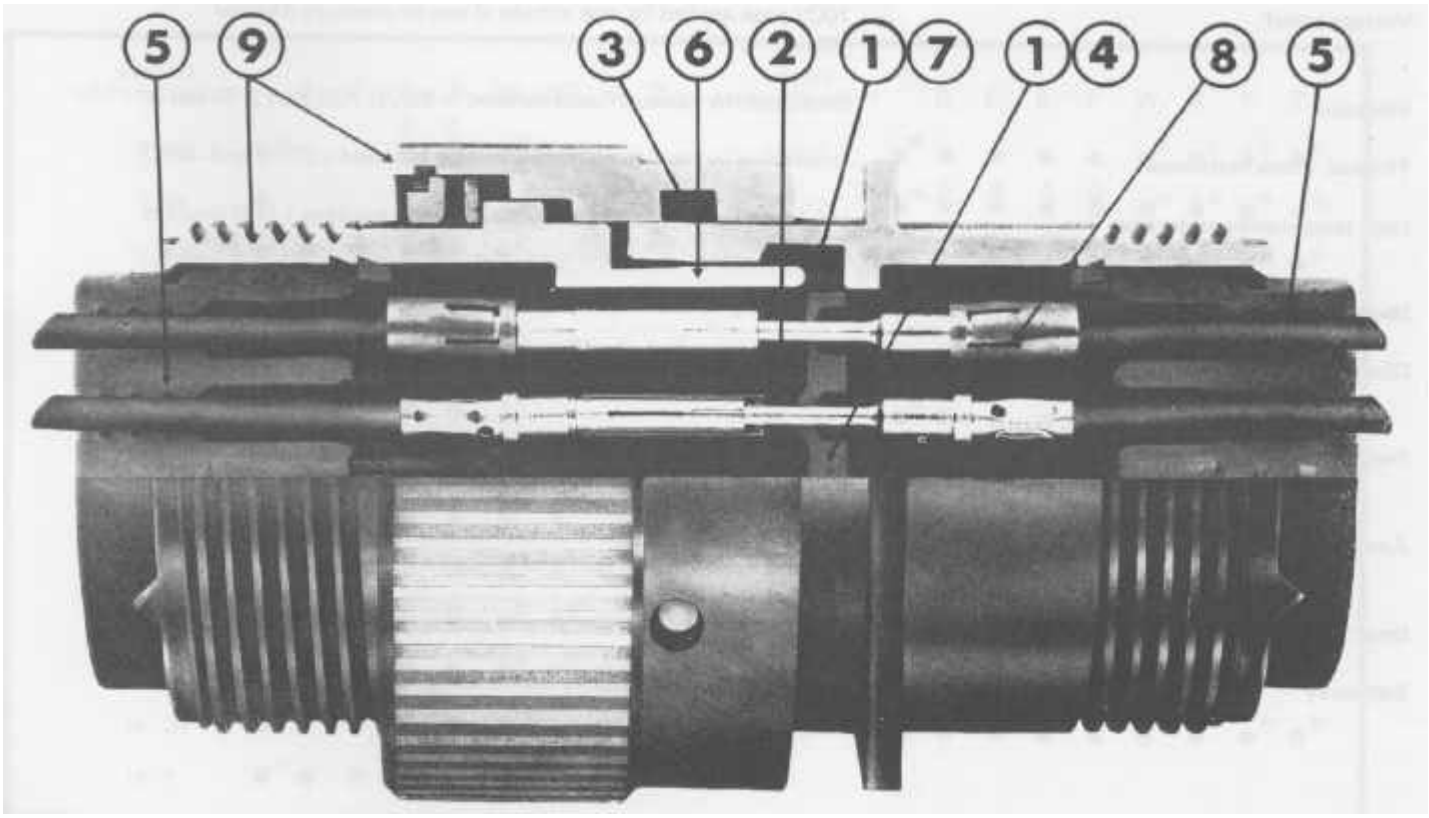
Construction

Connector shells are machined from solid aluminium bar stock, not forged or extruded. Machining has inherent advantages in terms of strength and adaptability. 602GB connectors can be supplied in materials other than aluminium.
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. For nonstandard materials or finishes consult factory for availability.
Hard dielectric insert components are glass filled epoxy, rubber components are silicone or fluorosllicone.
The connectors have gold plated contacts with crimp terminations. Pintail or solder bucket terminations are available in sealed (low profile) and Hermetic receptacles.

Sealed (Low Profile) receptacles have a maximum leakage of 1 cc/ per hour at 1 atmosphere.
Hermetic connectors with glass dielectric are manufactured with mild steel shells plated in tin over nickel and gold plated nickel alloy contacts. Passivated stainless steel shells also available.
Configurations for size 20 contacts range between 3 contacts in the size 8,12.7mm (0.5in. diameter) shell up to a maximum of 61 contacts in the size 24, 36.1 mm (1.5in. diameter) shell.
Intermediate sizes and contact data for heavier current ratings are shown in the insert availability chart on page 8.

1. Fluorosilicone fluid resistant sealing.
2 Closed entry hard front socket insert.
3. Triple track positive bayonet locking with visual mating indication.
4. Interfacial mating seal.
5. Triple riser wire sealing.
6. 5 key shell polarisation.
7. Peripheral shell seal.
8. Precision formed metal clip retention system.
9. Cadmium finish shells with high resistance to corrosion and temperature.



Design, development and manufacture of 602GB connectors have all been carried our in the United Kingdom by Amphenol Limited

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602GB Series EL2112 Patt.602
Specification Requirements

Engagement & disengagement forces	Torque measurements for mating and unmating range from 1.130 Nm (10 lb in) to 4.29 Nm (38 lb in).
Contact resistance	As per test in EL2112 and EL2113. Maximum 2.5m.Ω environmental styles, 5mΩ hermetic styles.
insulation resistance	Not less than 5000 megohms.
Shell continuity	Less than 5 millivolts for aluminium shells, less than 10 millivolts if one shell is ferrous. (At 1A).
Contact retention	Will withstand a load of 66.8 N (15 lbf) on a size 20 contact. 89.0 N (20 Ibf) on a size 16 contact. With a movement of less than .015".
Sealing	At a pressure of 15 p.s.i. maximum leakage 1 c.c./hr. for fixed contact (low profile) environmental styles and 0.01 micron/cub.ft./hr. hermetic styles.
Fluid resistance	Meets requirements of EL2112 after immersion in aircraft fuels, turbine lubricants and hydraulic fluids.
Voltage proof	700V peak applied for one minute at low air pressure 44mbar (70,000 ft).
Vibration	Unaffected by vibration tests detailed in BS 2G 100, Part 2, Grade A.
Thermal shock resistance	Unaffected by rapid temperature cycling between +205°C and -65°C.
High temperature endurance	Insulation resistance better than 200 megohms after 1,000 hours at 200°C.
Mechanical endurance	500 matings and unmatings minimum.
Climatic	No voltage breakdown after the climatic test detailed in BS 2G 100 Part 2 for Class 1 equipment.
Fungus growth	Service unaffected by tests detailed in BS 2G 100 Part 2 for Class 1 connectors.
Acceleration	Performance unaffected after acceleration and crash landing test detailed in BS 2G 100 Part 2 for Class 1A equipment.
Insert retention	Insert secure against rotation and also axial loads of 334N (75 lbf).
Salt spray	Service unaffected by spray test detailed in EL2112.

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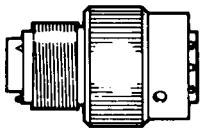
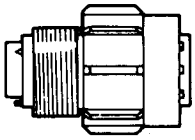
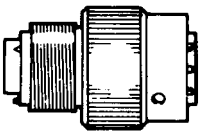
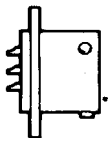
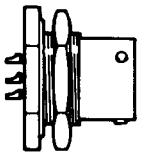
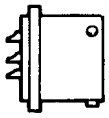
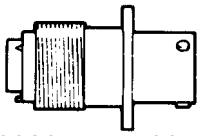
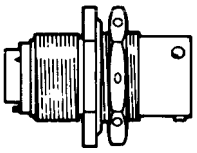
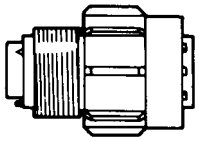
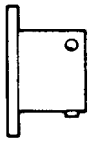
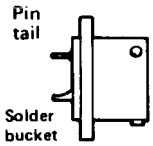
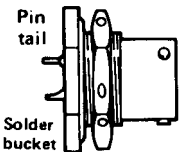
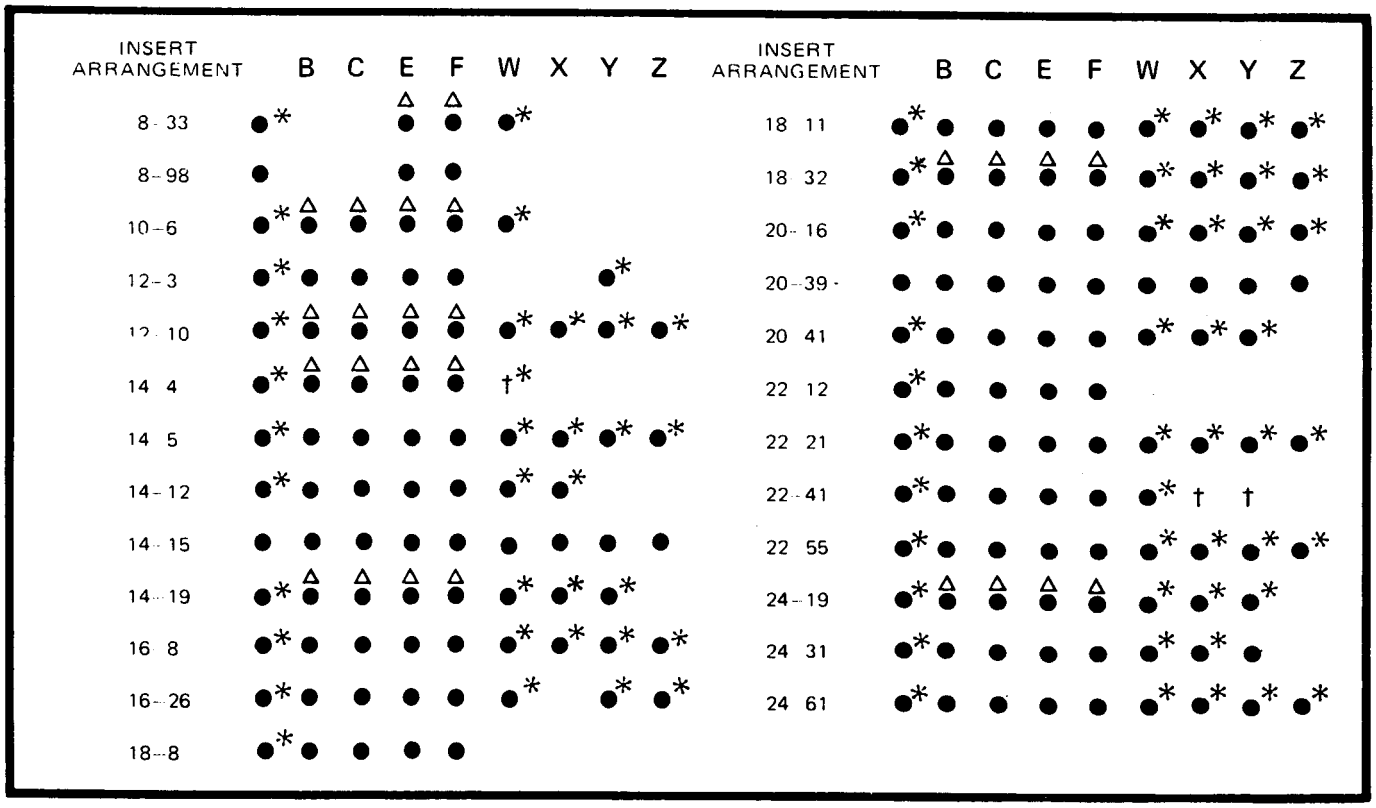
Table of Shell Styles

PLUG (Standard Coupling Ring) Page 11	PLUG (Ribbed Coupling Ring) Page 11	GROUNDED PLUG (Standard Coupling Ring) Page 11	FLANGE MOUNTING HERMETIC RECEPTACLE Page 16	SINGLE HOLE MOUNTING HERMETIC RECEPTACLE Page 15	SOLDER MOUNTING HERMETIC RECEPTACLE Page 15
PAN 6432-1 F & 4F  **6026 - 06E**	 **6125 - 05 E**	 **- 06EG**	**PAN 6432-1 T**  **- 02H**	**PAN 6432-1 U**  **6027H - 07H**	**PAN 6432-1 E**  **6021H - 01H**
FLANGE MOUNTING RECEPTACLE Page 12	SINGLE HOLE MOUNTING RECEPTACLE Page 13	GROUNDED PLUG (Ribbed Coupling Ring) Page 11	DUMMY RECEPTACLE Page 12	FLANGE MOUNTING RECEPTACLE Page 11	SINGLE HOLE MOUNTING RECEPTACLE Page 13
PAN 6432-IB & 4B  **6020 - 00E**	**PAN 6432 -1A & -4A**  **6027 07E**	 **- 05EG**	**PAN 6432-1 R**  **- 188**	**-02A (219)**  **- 02A**	**-5002 (219)**  **- 5002**

Hermetic receptacles are available with pin tail terminations by adding deviation (345) to the Amphenol Part Number.

Polarisation Availability



For orientations not shown above consult factory

* Inserts and orientations in PAN 6432-1.

Δ Inserts and orientations in PAN 6432-4.

† These polarisations are not included in EL2112 Pattern 602 but are available as Amphenol proprietory part numbers.

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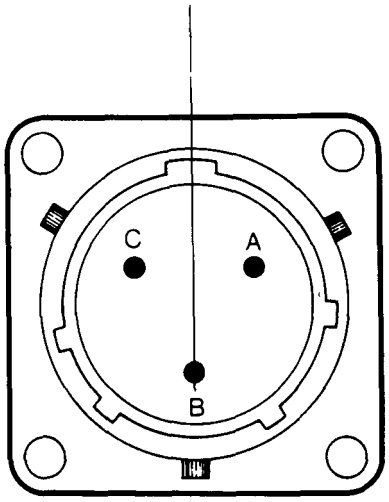
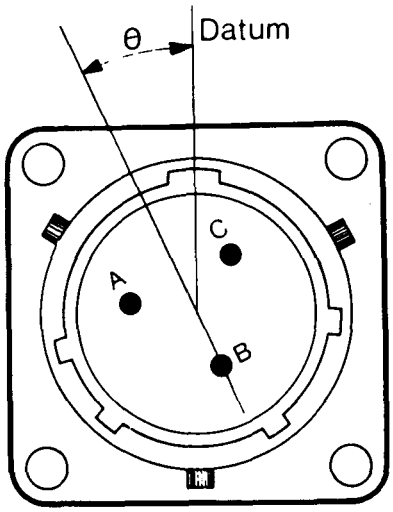
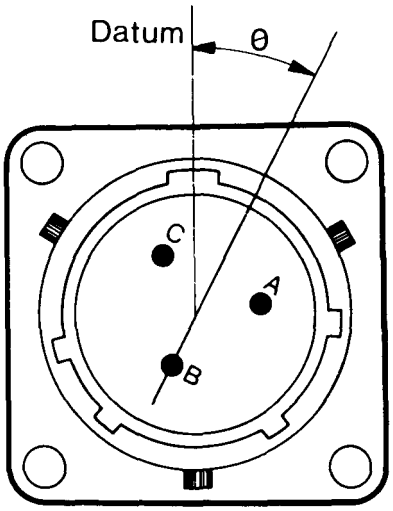
Insert Orientations



Normal position
with pin contacts



Alternative position of insert
with socket contacts
(∅ counter clockwise)



Alternate position of insert
with pin contacts
(∅ clockwise)

Each diagram shows mating face of insert

Insert arrangement	Normal	Orientation ∅ (degrees)			
		W	X	Y	Z
8-33	0	90	-	-	-
8-98	0	-	-	-	-
10-6	0	90	-	-	-
12-3	0	-	-	180	-
12-10	0	60	155	270	295
14-4	0	45	-	-	-
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
16-26	0	60	-	275	338
18-8	0	-	-	-	-
18-11	0	62	119	241	340
18-32	0	85	138	222	265
20-16	0	238	318	333	347
20-39	0	63	144	252	333
20-41	0	45	126	225	-
22-12	0	-	-	-	-
22-21	0	16	135	175	349
22-41	0	39	135	264	-
22-55	0	30	142	226	314
24-19	0	30	165	315	-
24-31	0	90	225	255	-
24-61	0	90	180	270	324

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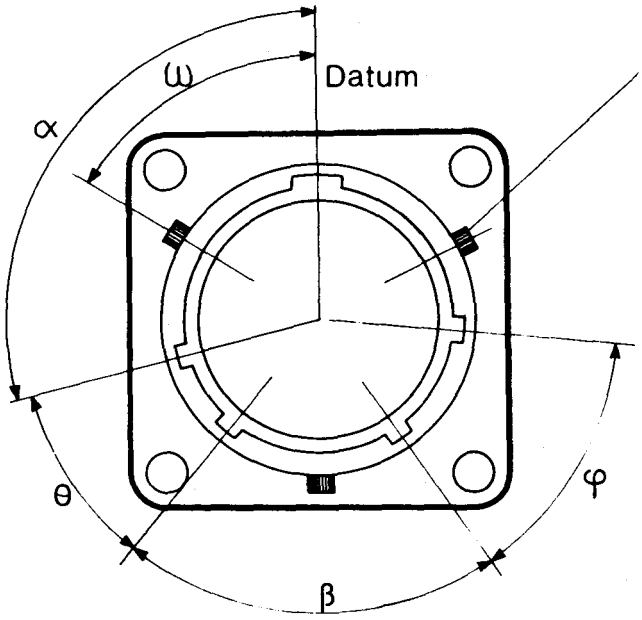
Key/Keyway Orientations



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 B,C,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	VALUES FOR α (degrees)					VALUES FOR θ (degrees)					VALUES FOR β (degrees)				
Size	N	B	C	E	F	N	B	C	E	F	N	B	C	E	F
8	105	-	-	118	82	35	-	-	30	50	75	-	-	100	75
10	105	85	125	115	85	35	35	35	30	50	75	75	75	100	75
12	105	89	121	115	85	35	35	35	30	50	75	75	75	100	75
14	105	91	119	75	120	35	35	35	30	50	75	75	75	100	75
16	105	93	117	75	120	35	35	35	30	50	75	75	75	100	75
18	105	95	115	75	120	35	35	35	30	50	75	75	75	100	75
20	105	95	115	75	120	35	35	35	30	50	75	75	75	100	75
22	105	97	113	75	120	35	35	35	30	50	75	75	75	100	75
24	105	97	113	75	120	35	35	35	30	50	75	75	75	100	75

Shell	VALUES FOR φ (degrees) ORIENTATION					VALUES FOR ω (degrees) ORIENTATION				
Size	N	B	C	E	F	N	B	C	E	F
8	50	-	-	30	45	60	-	-	73	47
10	50	50	50	30	45	60	40	80	70	50
12	50	50	50	30	45	60	44	76	70	50
14	50	50	50	30	35	60	46	74	30	75
16	50	50	50	30	35	60	48	72	30	75
18	50	50	50	30	35	60	50	70	30	75
20	50	50	50	30	35	60	50	70	30	75
22	50	50	50	30	35	60	52	68	30	75
24	50	50	50	30	35	60	52	68	30	75

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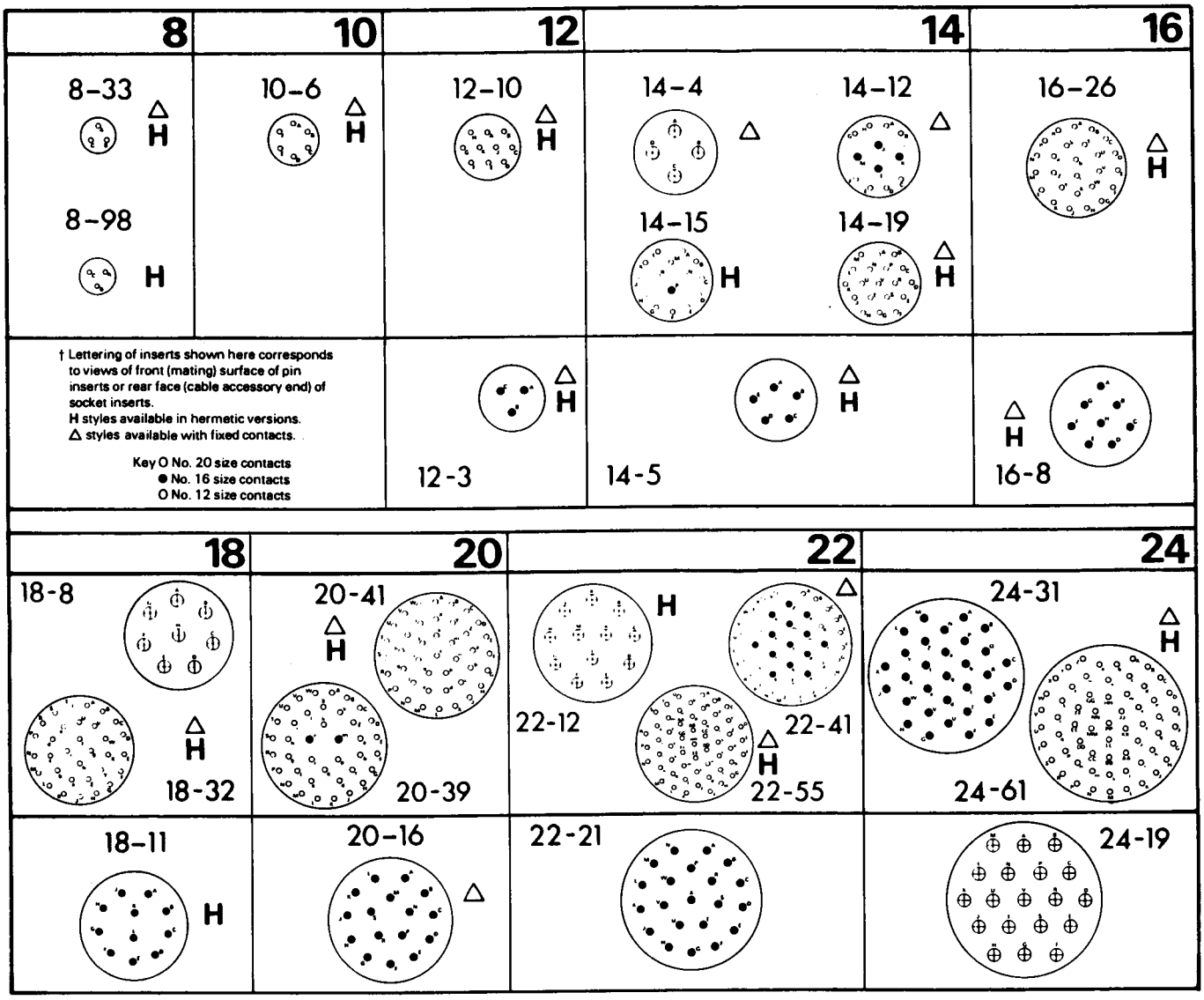
Inset Availability



VOLTAGE RATING 1

RATING 1 ALTITUDE	RECOMMENDED WORKING VOLTAGE a.c. r.m.s.	TEST VOLTAGE a.c. r.m.s.
Sea Level	600	1,500
15,000 metres	375	500
21,000 metres	300	375
33,000 metres	175	200

VOLTAGE RATING 2

RATING 2 ALTITUDE	RECOMMENDED WORKING VOLTAGE a.c. r.m.s.	TEST VOLTAGE a.c. r.m.s.
Sea Level	1,000	2,300
15,000 metres	600	750
21,000 metres	450	550
33,000 metres	175	200

CURRENT RATING

The performance of 602 Series connectors at all limes exceeds the maximum continuous bunched rating, of the appropriate temperature rating and size of wire or cable. This bunched rating is therefore the determining factor. In the case of mixed loadings, the greatest individual load shall be the bunched loading. In any combination of ambient temperature plus temperature rise due to current flow through the contacts the maximum temperature of 200°C shall not be exceeded.

† ***Contact characters are shown for identification purposes only. Every effort is made to ensure accuracy but actual connectors should be inspected to ensure actual position of characters. If in doubt consult nearest sales office.***

Contact loading should not exceed:-
Size 20 Contacts 7.5A
Size 16 Contacts 15A
Size 12 Contacts 25A

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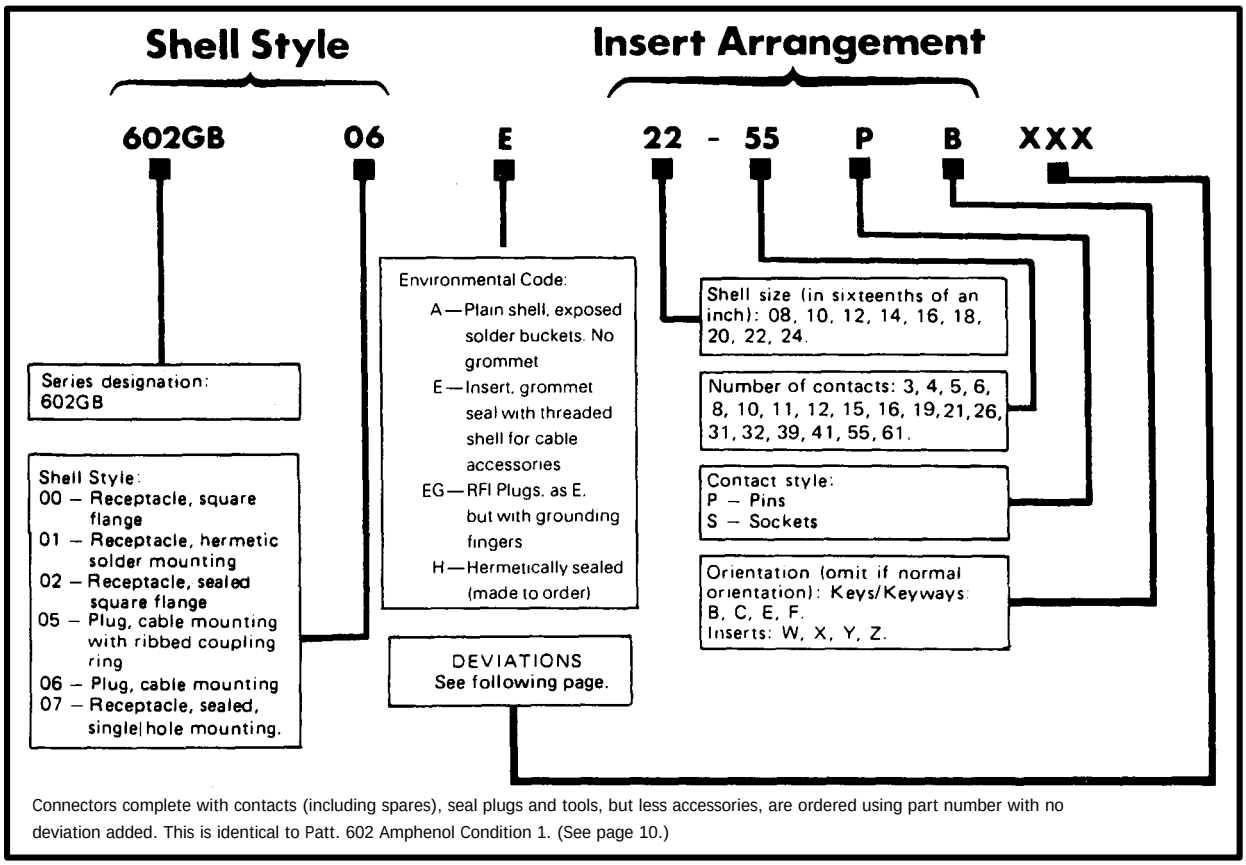
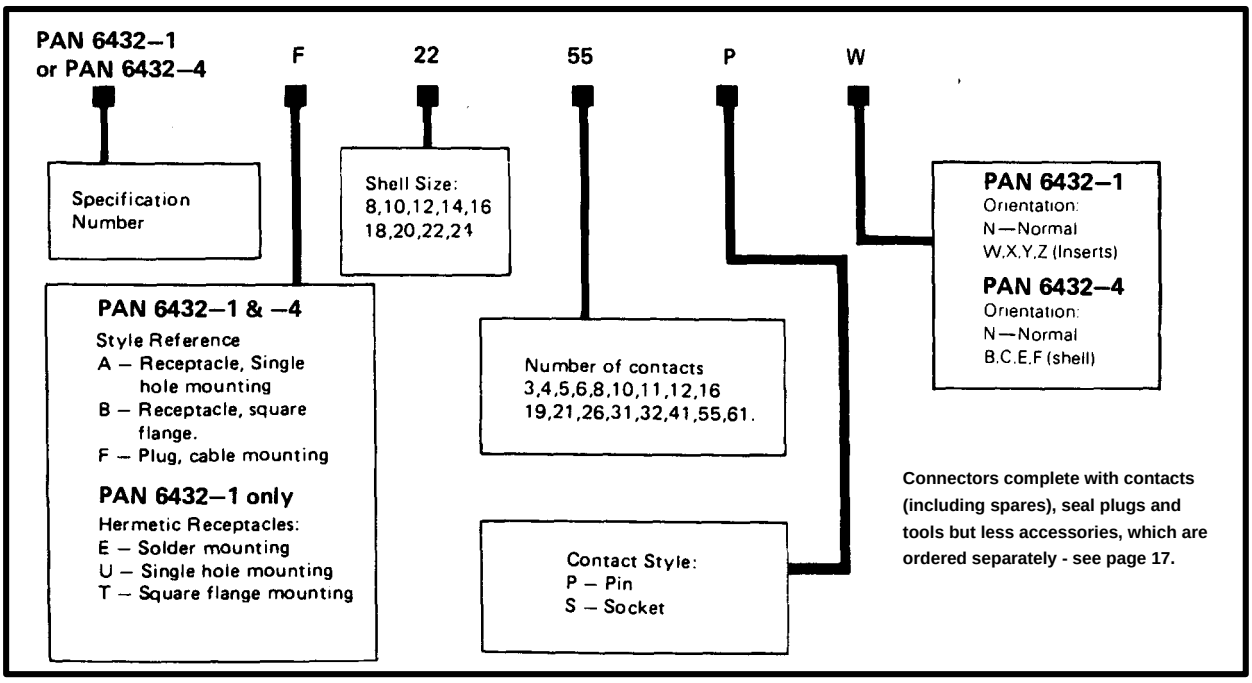
Ordering by Amphenol Part Numbers

All connectors containing size 12 contacts must have a Strain Relief Accessory fitted to maintain the stated environmental performances. To ensure the best performance of the wire sealing grommet it is recommended that this type of accessory should be fitted to all connectors. See page 17 for part numbers.



Connectors complete with contacts (including spares), seal plugs and tools, but less accessories, are ordered using part number with no deviation added. This is identical to Patt. 602 Amphenol Condition 1. (See page 10.)

Ordering by Panavia Part Numbers



Connectors complete with contacts (including spares), seal plugs and tools but less accessories, which are ordered separately - see page 17.

NOTE: Whether you order by the 602 Series, Panavia or the Pattern 602 number, all qualified connectors are supplied marked with Pattern 602 part numbers. (See page 10).

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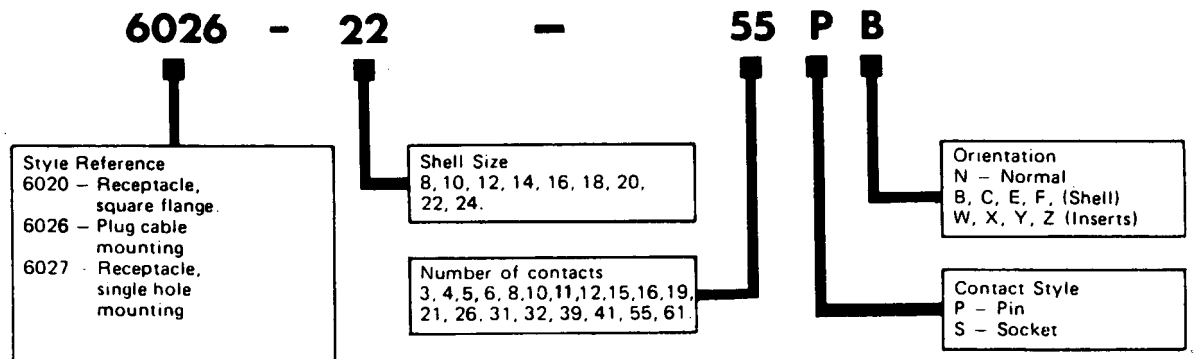
Ordering by Pattern 602 Numbers

All connectors containing size 12 contacts must have a Strain Relief Accessory fitted to maintain the stated environmental performances. To ensure the best performance of the wire sealing grommet it is recommended that this type of accessory should be fitted to all connectors. See page 17 for part numbers.

For latest part numbers qualified to Patt. 602 please consult your nearest Sales Office.



Connectors ordered against Patt. 602 numbers (as above) will be supplied in compliance with EL 2112 Patt. 602 requirements, this is a basic connector with the exact complement of contacts which comply with EL2113.
This is identical to AMPHENOL Condition 8.

Amphenol Conditions and Deviations

Where connectors to Pattern 602 or 602GB number systems are required 'to be supplied' with accessories, or to other special requirements, the appropriate Amphenol Condition for Pattern 602 or Deviation for 602GB, as shown below, should always be quoted.
e.g. 6020-18-32 PN Amphenol Cond 2 or 602GB-OOE 18-32P (309).

Amphenol Condition 1
Plugs and Sockets supplied against this condition will be supplied without cable accessories but complete with contacts (including spares), and filler plugs.

Amphenol Condition 2 (Deviation 309)
Plugs and Sockets supplied against this condition will be supplied as Amphenol Condition 1 plus a cable accessory without strain relief to MS3416.

Amphenol Condition 3 (Deviation 310)
Plugs and Sockets supplied against this condition will be supplied as Amphenol Condition 1 plus a straight backshell cable accessory with Cable Tie strain relief to MS 31528.

Amphenol Condition 4 (Deviation 311)
Plugs and Sockets supplied against this condition will be supplied as Amphenol Condition 1 plus a 90° cable accessory with Cable Tie to MS3154

Amphenol Condition 5 (Deviation 326)
Plugs and Sockets supplied against this condition will be supplied Amphenol Condition 1 but with adaptor for heat shrink boot to MS 3158.

Amphenol Condition 6 (Deviation 335)
Plugs and Sockets supplied against this condition will be supplied as Amphenol Condition 1 plus a straight cable accessory with saddle clamp to MS 3417

Amphenol Condition 7 (Deviation 336)
Plugs and Sockets supplied against this condition will be supplied as Amphenol Condition 1 plus a 90° cable accessory with saddle clamp to MS 3418.

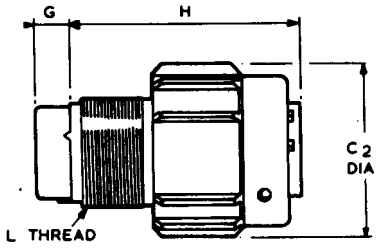
Amphenol Condition 8 (Deviation 341)
Plugs and Sockets supplied against basic 6020, 6026, 6027 reference numbers will be supplied with the exact complement of contacts but without seal plugs, tools and accessories.

Amphenol Condition 9 (Deviation 301)
Plugs and Sockets supplied against this condition will be without contacts, seal plugs, tools and accessories.
Deviation (219) Receptacles only, film wire terminations.
Deviation (345) Hermetic receptacles only, pintail terminations.

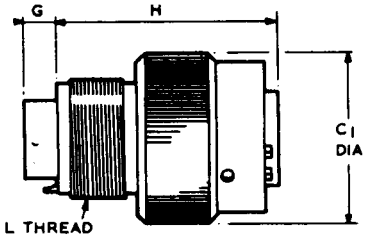
AMPHENOL LIMITED

Ribbed Coupling Ring Plug - 05E 6125 (To RRE |P|50753) Grounded Plug 05EG

Shell Size	C1 Max. Dia.	C2 max. Dia.	G ± 0.76 (± .030)	H max.	L Thd UNEF 2A
8	**19.86** (0.782)	**22.66** (0.892)	**4.06** (0.160)	**31.24** (1.230)	½ - 20
10	**23.52** (0.926)	**25.83** (1.017)	**4.06** (0.160)	**31.24** (1.230)	5/8 - 24
12	**26.49** (1.043)	**29.01** (1.142)	**4.06** (0.160)	**31.24** (1.230)	¾ - 20
14	**30.05** (1.183)	**32.18** (1.267)	**4.06** (0.160)	**31.24** (1.230)	7/8 - 20
16	**33.15** (1.305)	**36.93** (1.454)	**4.06** (0.160)	**31.24** 0.230)	1 - 20
18	**35.33** (1.391)	**39.70** (1.563)	**4.06** (0.160)	**31.24** (1.230)	1 1/16 - 18
20	**38.89** (1.531)	**42.85** (1.687)	**4.06** (0.160)	**31.24** (1.230)	1 3/16 - 18
22	**42.06** (1.656)	**45.64** (1.797)	**4.06** (0.160)	**31.24** (1.230)	1 5/16 - 18
24	**45.14** (1.777)	**48.82** (1.922)	**4.06** (0.160)	**31.24** (1.230)	1 7/16 - 18



Standard Plug -06E 6026 PAN 6432 - 1F PAN 6432 - 4F Grounded Plug 06EG

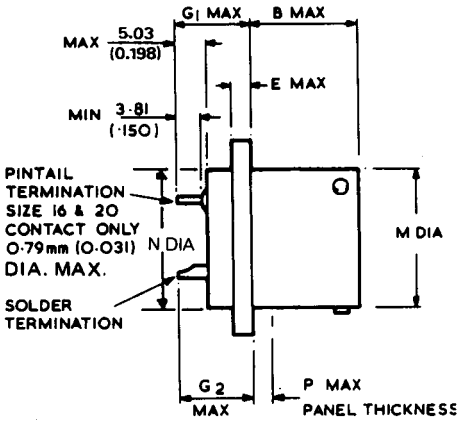


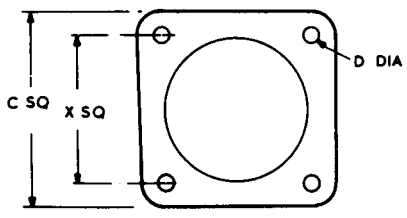
Flange Mtg. Receptacle

-02A Sealed (Low Profile) with Solder bucket terminations

- 02A (219) Sealed (Low Profile) with pintail terminations.

Shell Size	B Max.	C Sq max	D dia. ± 0.05 (±0.002)	E Max.	G1 Max.	G2 Max.	M Dia. Max.	N Dia. Max.	P Max	X sq. ± 0.13 (± .005)
08	**11.71** (0.461)	**21.03** (0.828)	**3.18** (0.125)	**1.96** (0.077)	**12.22** (0.481)	**10.62** (0.418)	**12.04** (0.474)	**12.42** (0.489)	**2.21** (0.087)	**15.09** (0.594)
10	**11.71** (0.461)	**24.23** (0.954)	**3.18** (0.125)	**1.96** (0.077)	**12.22** (0.481)	**10.62** (0.418)	**15.01** (0.591)	**15.60** (0.614)	**2.21** (0.087)	**18.26** (0.719)
12	**11.71** (0.461)	**25.59** (1.047)	**3.18** (0.125)	**1.96** (0.077)	**12.22** (0.481)	**10.62** (0.418)	**19.08** (0.751)	**18.77** (0.739)	**2.21** (0.087)	**20.82** (0.812)
14	**11.71** (0.461)	**28.98** (1.141)	**3.18** (0.125)	**1.96** (0.077)	**12.22** (0.481)	**10.62** (0.418)	**22.25** (0.876)	**21.95** (0.864)	**2.21** (0.087)	**23.01** (0.906)
16	**11.71** (0.461)	**31.34** (1.234)	**3.18** (0.125)	**1.96** (0.077)	**12.22** (0.481)	**10.62** (0.418)	**25.43** (1.001)	**25.12** (0.989)	**2.21** (0.087)	**24.61** (0.969)
18	**11.71** (0.461)	**33.73** (1.328)	**3.18** (0.125)	**1.96** (0.077)	**12.22** (0.481)	**10.62** (0.418)	**28.60** (1.126)	**26.67** (1.050)	**2.21** (0.087)	**28.97** (1.062)
20	**14.38** (0.566)	**36.91** (1.453)	**3.18** (0.125)	**2.08** (0.082)	**9.60** (0.378)	**9.58** (0.377)	**31.78** (1.251)	**29.85** (1.175)	**5.38** (0.212)	**29.36** (1.156)
22	**14.38** (0.566)	**40.08** (1.578)	**3.18** (0.125)	**2.08** (0.082)	**9.60** (0.378)	**9.58** (0.377)	**34.95** (1.376)	**33.02** (1.300)	**5.38** (0.212)	**31.75** (1.250)
24	**15.11** (0.595)	**43.26** (1.703)	**3.86** (0.152)	**2.08** (0.082)	**10.31** (0.406)	**8.71** (0.343)	**38.13** (1.501)	**36.20** (1.425)	**5.38** (0.212)	**34.92** (1.375)





NOTE:- For panel piercing dimensions see type -00E (page 12).

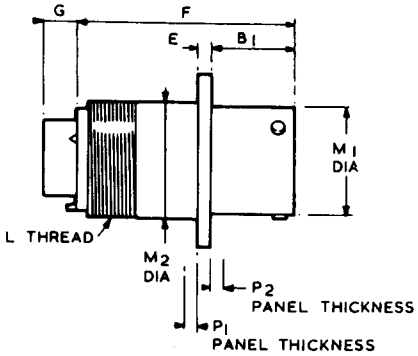
Dimensions: mm - bold type: inches - light type in brackets throughout unless otherwise stated
* for other Pintail lengths consult factory.

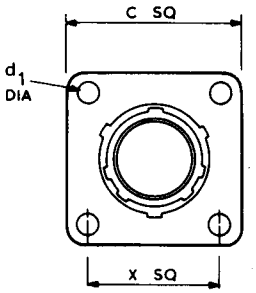
AMPHENOL LIMITED

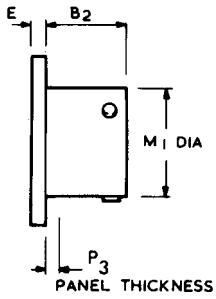
Flange Mtg. Receptacle - 00E
6020
PAN 6432-1B
PAN 6432-4B

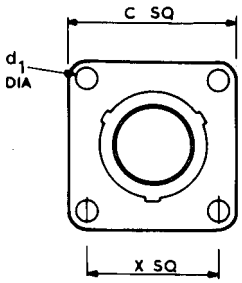
Dummy Receptacle - 188
PAN 6432-IR

Ordering Details 602GB-188-XX or PAN 6432-1 R-XX replace XX by shell size required e.g. 602GB-188-18 or PAN 6432-1R-18.





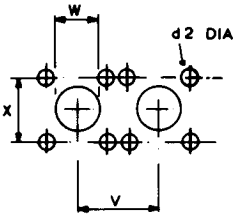




Shell Size	B1 ± 0.38 (± .015)	B2 ± 0.25 (± .010)	C Sq max.	D1 dia. ± 0.05 (± .002)	D2 dia. + 0.13 (+ .005)	E ± 0.41 (± .016)	F max.	G ± 0.76 (± .030)	L Thd UNEF 2A
8	**11.33** (0.446)	**12.12** (0.477)	**21.03** (0.828)	**3.18** (0.125)	**3.25** (0.128)	**1.57** (0.062)	**30.86** (1.215)	**4.06** (0.160)	½ -20
10	**11.33** (0.446)	**12.12** (0.477)	**24.23** (0.954)	**3.18** (0.125)	**3.25** (0.128)	**1.57** (0.062)	**30.86** (1.215)	**4.06** (0.160)	5/8 – 24
12	**11.33** (0.446)	**12.12** (0.477)	**26.59** (1.047)	**3.18** (0.125)	**3.25** (0.128)	**1.57** (0.062)	**30.86** (1.215)	**4.06** (0.160)	¾ - 20
14	**11.33** (0.446)	**12.12** (0.477)	**28.98** (1.141)	**3.18** (0.125)	**3.25** (0.128)	**1.57** (0.062)	**30.86** (1.215)	**4.06** (0.160)	7/8 – 20
16	**11.33** (0.446)	**12.12** (0.477)	**31.34** (1 .234)	**3.18** (0.125)	**3.25** (0.128)	**1.57** (0.062)	**30.86** (1.215)	**4.06** (0.160)	1 – 20
18	**11.33** (0.446)	**12.12** (0.477)	**33.73** (1.328)	**3.18** (0.125)	**3.25** (0.128)	**1.57** (0.062)	**30.86** (1.215)	**4.06** (0.160)	1 1/16 –18
20	**14.50** (0.571)	**14.50** (0.571)	**36.91** (1.453)	**3.18** (0.125)	**3.25** (0.128)	**2.39** (0.094)	**32.38** (1.275)	**4.06** (0.160)	1 3/16 – 18
22	**14.50** (0.571)	**14.50** (0.571)	**40.08** (1.578)	**3.18** (0.125)	**3.25** (0.128)	**2.39** (0.094)	**32.38** (1.275)	**4.06** (0.160)	1 5/16 – 18
24	**15.37** (0.605)	**15.37** (0.605)	**43.26** (1.703)	**3.86** (0.152)	**3.94** (0.155)	**2.39** (0.094)	**32.38** (1.275)	**4.06** (0.160)	1 7/16 - 18

Shell Size	M1 Dia. Max.	M2 Dia. max.	Panel Thickness P1 max.	Panel Thickness P2 max.	Panel Thickness P3 max.	V min.	W dia. ± 0.13 (± .005)	X sq ± 0.13 (± .005)
8	**12.04** (0.474)	**12.67** (0.499)	**3.18** (0.125)	**2.21** (0.087)	**3.18** (0.125)	**23.62** (0.930)	**14.43** (0.568)	**15.09** (0.594)
10	**15.01** (0.591)	**15.88** (0.625)	**3.18** (0.125)	**2.21** (0.087)	**3.18** (0.125)	**26.80** (1.055)	**17.40** (0.685)	**18.26** (0.719)
12	**19.08** (0.751)	**19.05** (0.750)	**3.18** (0.125)	**2.21** (0.087)	**3.18** (0.125)	**29.98** (1.180)	**21.95** (0.864)	**20.62** (0.812)
14	**22.25** (0.876)	**22.22** (0.875)	**3.18** (0.125)	**2.21** (0.087)	**3.18** (0.125)	**33.15** (1.305)	**25.12** (0.989)	**23.01** (0.906)
16	**25.43** (1.001)	**25.40** (1.000)	**3.18** (0.125)	**2.21** (0.087)	**3.18** (0.125)	**37.85** (1.490)	**28.27** (1.113)	**24.61** (0.969)
18	**28.60** (1.126)	**26.97** (1.062)	**3.18** (0.125)	**2.21** (0.087)	**3.18** (0.125)	**40.64** (1.600)	**31.45** (1.238)	**26.97** (1.062)
20	**31.78** (1.251)	**30.15** (1.187)	**3.18** (0.125)	**5.38** (0.212)	**5.38** (0.212)	**43.81** (1.725)	**34.62** (1.363)	**29.36** (1.156)
22	**34.95** (1.376)	**33.32** (1.312)	**3.18** (0.125)	**5.38** (0.212)	**5.38** (0.212)	**46.61** (1.835)	**37.80** (1.488)	**31.75** (1.250)
24	**38.13** (1.501)	**36.50** (1.437)	**3.18** (0.125)	**5.38** (0.212)	**5.38** (0.212)	**49.78** (1.960)	**41.02** (1.615)	**34.92** (1.375)

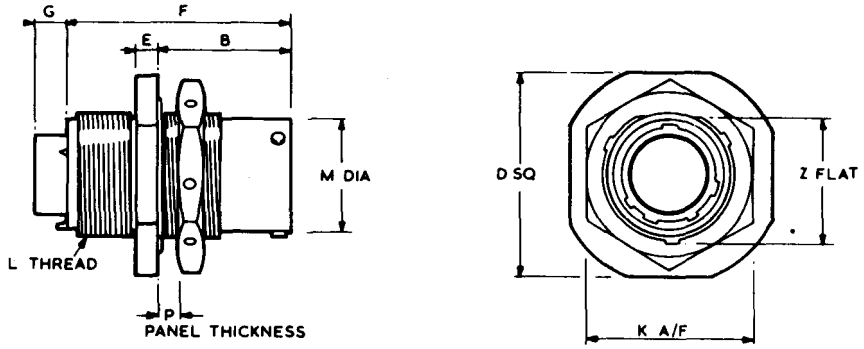
PANEL PIERCING



AMPHENOL LIMITED

Single Hole Mtg .Receptacle

-07E
6027
PAN 6432-1A
PAN 6432-4A



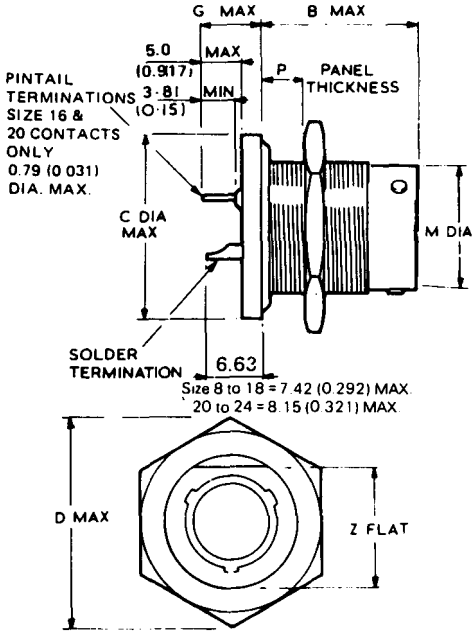
Shell Size	B max.	D Sq.	E max.	F max.	G ± 0.76 (± .030)	K A/F max.	L Thd UNEF 2A	M Max. dia.	P Panel thickness max.	P Panel thickness min.	V min.	W dia. ± 0.13 (± .005)	$Z1_{\pm 0.13}$ (± .005)	$Z2_{\pm 0.13}$ (± .005)
8	**17.96** (0.707)	**24.23** (0.954)	**2.87** (0.113)	**30.86** (1.215)	**4.06** (0.160)	**19.48** (0.767)	½ - 20	**12.04** (0.474)	**4.75** (0.187)	**1.57** (0.062)	**25.15** (0.990)	**14.53** (0.572)	**13.34** (0.525)	**13.61** (0.536)
10	**17.96** (0.707)	**27.38** (1.078)	**2.87** (0.113)	**30.86** (1.215)	**4.06** (0.160)	**22.66** (0.892)	$^5/_8$ – 24	**15.01** (0.591)	**4.75** (0.187)	**1.57** (0.067)	**28.32** (1.115)	**17.70** (0.697)	**16.51** (0.650)	**16.79** (0.661)
12	**17.96** (0.707)	**32.16** (1.266)	**2.87** (0.113)	**30.86** (1.215)	**4.06** (0.160)	**27.41** (1.079)	¾ - 20	**19.08** (0.751)	**4.75** (0.187)	**1.57** (0.062)	**33.15** (1.305)	**22.73** (0.895)	**20.65** (0.813)	**20.93** (0.824)
14	**17.96** (0.707)	**35.33** (1.391)	**2.87** (0.113)	**30.86** (1.215)	**4.06** (0.160)	**30.61** (1.205)	$^7/_8$ – 20	**22.25** (0.876)	**4.75** (0.187)	**1.57** (0.062)	**36.32** (1.430)	**25.65** (1.010)	**23.80** (0.937)	**24.08** (0.948)
16	**17.96** (0.707)	**38.51** (1.516)	**2.87** (0.113)	**30.88** (1.215)	**4.06** (0.160)	**33.76** (1.329)	1 – 20	**25.43** (1.001)	**4.75** (0.187)	**1.57** (0.062)	**39.88** (1.570)	**28.83** (1.135)	**26.95** (1.061)	**27.23** (1.072)
18	**17.96** (0.707)	**41.88** (1.641)	**2.87** (0.113)	**30.86** (1.215)	**4.06** (0.160)	**36.96** (1.455)	$1\ ^1/_{16}$ – 18	**28.60** (1.126)	**4.75** (0.187)	**1.57** (0.062)	**43.69** (1.720)	**32.00** (1.260)	**30.12** (1.186)	**30.40** (1.197)
20	**19.61** (0.772)	**48.43** (1.828)	**3.76** (0.148)	**32.38** (1.275)	**4.06** (0.160)	**40.11** (1.579)	$1\ ^3/_{16}$ – 18	**31.78** (1.251)	**6.35** (0.250)	**1.57** (0.062)	**47.37** (1.865)	**33.18** (1.385)	**33.30** (1.311)	**33.58** (1.322)
22	**19.61** (0.772)	**49.63** (1.954)	**3.76** (0.148)	**32.38** (1.275)	**4.06** (0.160)	**43.31** (1.705)	$1\ ^5/_{16}$ – 18	**34.95** (1.376)	**6.35** (0.250)	**1.57** (0.062)	**50.93** (2.005)	**38.35** (1.510)	**36.47** (1.436)	**36.75** (1.447)
24	**19.61** (0.772)	**52.78** (2.078)	**3.78** (0.148)	**32.38** (1.275)	**4.06** (0.160)	**46.48** (1.829)	$1\ ^7/_{16}$ – 18	**38.13** (1.501)	**5.56** (0.219)	**1.57** (0.062)	**54.61** (2.150)	**41.53** (1.635)	**39.65** (1.561)	**39.93** (1.572)

Single Hole Mtg .Receptacle

-002 Sealed (Low Profile) with Solder Bucket Terminations *

-5002 (219) Sealed (Low Profile) with Pintail Terminations *

Shell Size	B Max.	C Dia. Max	D Max.	G Mex.	M Max dia.	P Panel thickness Max.	P Panel thickness min.	± 0.13 (±.005)
8	**17.70** (0.697)	**23.27** (0.916)	**22.15** (0.872)	**7.47** (0.294)	**12.04** (0.474)	**4.75** (0.187)	**1.57** (0.062)	**13.34** (0.525)
10	**17.70** (0.697)	**26.44** (1.041)	**25.81** (1.016)	**7.47** (0.294)	**15.01** (0.591)	**4.75** (0.187)	**1.57** (0.062)	**16.51** (0.650)
12	**17.70** (0.697)	**31.19** (1.228)	**31.29** (1.232)	**7.47** (0.294)	**19.08** (0.751)	**4.75** (0.187)	**1.57** (0.062)	**20.66** (0.813)
14	**17.70** (0.697)	**34.37** (1.353)	**34.98** (1.377)	**7.47** (0.294)	**22.25** (0.876)	**4.75** (0.187)	**1.57** (0.062)	**23.80** (0.937)
16	**17.70** (0.697)	**37.54** (1.478)	**38.63** (1.521)	**7.47** (0.294)	**25.43** (1.001)	**4.75** (0.187)	**1.57** (0.062)	**26.95** (1.061)
18	**17.70** (0.697)	**40.72** (1.603)	**42.32** (1.666)	**7.47** (0.294)	**28.60** (1.126)	**4.75** (0.187)	**1.57** (0.062)	**30.12** (1.186)
20	**19.25** (0.758)	**45.49** (1.791)	**46.97** (1.810)	**8.20** (0.323)	**31.78** (1.251)	**6.36** (0.250)	**1.57** (0.062)	**33.30** (1.311)
22	**19.25** (0.758)	**48.67** (1.916)	**49.63** (0.954)	**8.20** (0.323)	**34.95** (1.376)	**6.36** (0.250)	**1.57** (0.062)	**36.47** (1.436)
24	**19.25** (0.758)	**51.84** (2.041)	**53.31** (2.099)	**8.20** (0.323)	**38.13** (1.501)	**5.58** (0.219)	**1.57** (0.062)	**39.65** (1.561)



NOTE:- For panel piercing dimensions see style -07E.

*Order by part numbers 602GB-5002-XX-XXXX or 602GB-5002-XX-XXXX (219). Replace XX-XXXX by insert arrangement, contact style and orientation require.

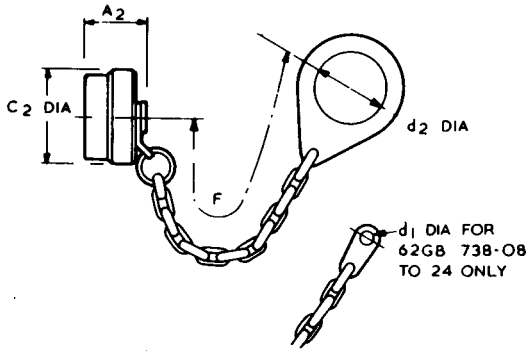
*For other Pintail lengths consult factory.

AMPHENOL LIMITED

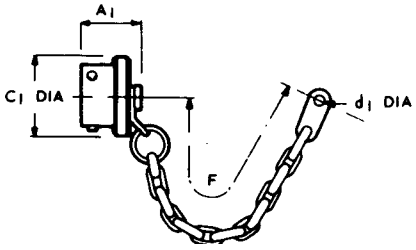
Caps & Chains

62GB Series caps and chains are common to 602GB and 62GB Series

STANDARD TYPE

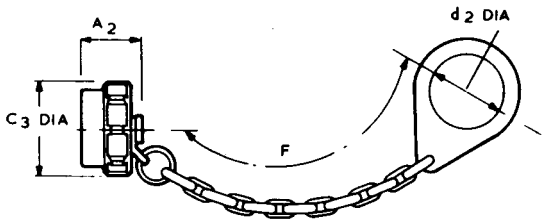


To fit	Amphenol Part No.	Panavia No.
Single hole fixing receptacles	62GB-736-08 to 24	PAN 6432-1 MA-08 to 24
Flange mounting receptacles	62GB-738-08 to 24	PAN 6432-1 MB-08 to 24

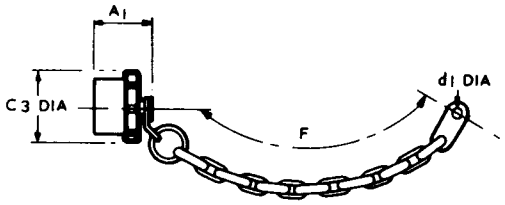


To fit	Amphenol Part No.	Panavia No.
Plugs	602GB-149-08-24 not suitable for use with 62GB series.	PAN 6432-1 MF-08 to 24

RIBBED TYPE



To fit	Amphenol Part No.
Single hole fixing receptacles	62GB-997-08 to 24



To fit	Amphenol Part No.
Plugs	6026 B-134-08 to 24

NOTE: For caps and cords refer to our 62GB catalogue
(max temperature 125° C)

Shell Size	A1 max.	A2 max.	C1 Dia. max.	C2 Dia. max.	C3 Dia. Max.	d1 +0.5 -0.13 (+.010) (-.005)	d2 +0.25 (+ .010)	F approx.
8	**16.76** (0.660)	**16.64** (0.655)	**18.26** (0.719)	**18.64** (0.734)	**22.65** (0.892)	**3.18** (0.125)	**14.68** (0.578)	**76.00** (3.000)
10	**16.76** (0.660)	**16.64** (0.655)	**21.44** (0.844)	**21.82** (0.859)	**25.83** (1.017)	**3.18** (0.125)	**17.86** (0.703)	**76.00** (3.000)
12	**16.76** (0.660)	**16.64** (0.655)	**25.40** (1.000)	**25.40** (1.000)	**29.00** (1.142)	**3.18** (0.125)	**22.63** (0.891)	**89.00** (3.500)
14	**16.76** (0 660)	**16.64** (0 655)	**28.57** (1.125)	**28.57** (1.125)	**32.18** (1.267)	**3.18** (0.125)	**25.81** (1.016)	**89.00** (3.500)
16	**16.76** (0.660)	**16.64** (0.655)	**31.75** (1.250)	**31.75** (1.250)	**36.93** (1.454)	**3.18** (0.125)	**28.98** (1.141)	**89.00** (3.500)
18	**16.76** (0 660)	**16.64** (0.655)	**34.92** (1.375)	**34.92** (1.375)	**39.70** (1.563)	**3.18** (0.125)	**32.16** (1.266)	**89.00** (3.500)
20	**18.29** (0.720)	**16.64** (0.655)	**38.10** (1.500)	**38.10** (1.500)	**42.84** (1.687)	**3.18** (0.125)	**35.33** (1 391)	**102.00** (4.000)
22	**18.29** (0.720)	**16.64** (0.655)	**41.27** (1.625)	**41.27** (0.625)	**45.64** (1.797)	**3.18** (0.125)	**38.50** (1.516)	**102.00** (4.000)
24	**19.18** (0.755)	**17.53** (0.690)	**44.45** (1.750)	**44.45** (1.750)	**48.81** (1.922)	**3.73** (0.147)	**41.68** (1.641)	**102.00** (4.000)

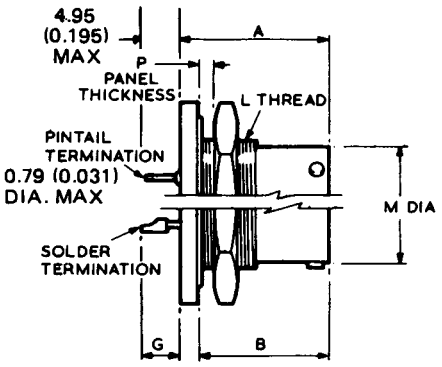
AMPHENOL LIMITED

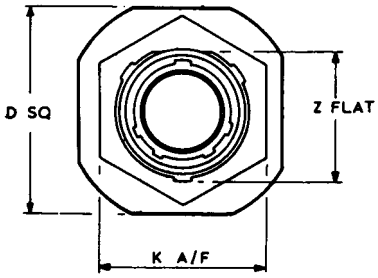
Single Hole Mtg. Hermetic Seal Receptacle

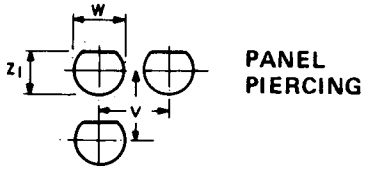
-07H
6027H
PAN 6432 -1U

Shell Size	A max	B max	D sq. max	G max. contact Size 20	G max. contact Size 16	K A/F max.	L Thd UNEF 2A
8	**20.83** (0.820)	**17.96** (0.707)	**24.23** (0.954)	**3.40** (0.134)	**5.18** (0.204)	**19.48** (0.767)	$^{9}/_{16}$ – 24
10	**20.83** (0.820)	**17.96** (0.707)	**27.38** (1.078)	**3.40** (0.134)	**5.18** (0.204)	**22.66** (0.892)	$^{11}/_{16}$ – 24
12	**20.83** (0.820)	**17.96** (0.707)	**32.16** (1.266)	**3.40** (0.134)	**5.18** (0.204)	**27.41** (1.079)	$^{7}/_{8}$ – 20
14	**20.83** (0.820)	**17.96** (0.707)	**35.33** (1.391)	**3.40** (0.134)	**5.18** (0.204)	**30.61** (1.205)	1 – 20
16	**20.83** (0.820)	**17.96** (0.707)	**38.51** (1.516)	**3.40** (0.134)	**5.18** (0.204)	**33.76** (1.329)	1 $^{1}/_{8}$ –18
18	**20.83** (0.820)	**17.96** (0.707)	**41.68** (1.641)	**3.40** (0.134)	**5.18** (0.204)	**36.96** (1.455)	1 ¼ - 18
20	**23.37** (0.920)	**19.61** (0.772)	**46.43** (1.828)	**2.51** (0.099)	**4.29** (0.169)	**40.11** (1.579)	1 $^{3}/_{8}$ - 18
22	**23.37** (0.920)	**19.61** (0.772)	**49.63** (1.954)	**2.51** (0.099)	**4.29** (0.169)	**43.31** (1.705)	1 ½ - 18
24	**24.16** (0.951)	**20.40** (0.803)	**52.78** (2.078)	**2.51** (0.099)	**4.29** (0.169)	**46.46** (1.829)	1 $^{5}/_{8}$ - 18

Shell Size	M Dia. max.	P Panel thickness max.	P Panel thickness min.	V min.	W ±0.13 (±.005)	Z ±0.13 (±.005)	Z1 ±0.13 (±.005)
8	**12.04** (0.474)	**4.75** (0.187)	**1.57** (0.062)	**25.15** (0.990)	**14.53** (0.572)	**13.34** (0.525)	**13.61** (0.536)
10	**15.01** (0.591)	**4.75** (0.187)	**1.57** (0.062)	**28.32** (1.115)	**17.70** (0.697)	**16.51** (0.650)	**16.79** (0.661)
12	**19.08** (0.751)	**4.75** (0.187)	**1.57** (0.062)	**33.15** (1.305)	**22.73** (0.895)	**20.65** (0.813)	**20.93** (0.824)
14	**22.25** (0.876)	**4.75** (0.187)	**1.57** (0.062)	**36.32** (1.430)	**25.65** (1.010)	**23.80** (0.937)	**24.08** (0.948)
16	**25.43** (1.001)	**4.75** (0.187)	**1.57** (0.062)	**39.88** (1.570)	**28.83** (1.135)	**26.95** (1.061)	**27.23** (1 072)
18	**28.60** (1.126)	**4.75** (0.187)	**1.57** (0.062)	**43.69** (1.720)	**32.00** (1.260)	**30.12** (1.186)	**30.40** (1.197)
20	**31.78** (1.251)	**6.35** (0.250)	**1.57** (0.062)	**47.37** (1.865)	**35.18** (1.385)	**33.30** (1.311)	**33.58** (1.322)
22	**34.95** (1.376)	**6.35** (0.250)	**1.57** (0.062)	**50.93** (2.005)	**38.35** (1.510)	**36.47** (1.436)	**36.75** (1.447)
24	**38.13** (1.501)	**6.35** (0.250)	**1.57** (0.062)	**54.61** (2.150)	**41.53** (1.635)	**39.65** (1.561)	**39.93** (1.572)



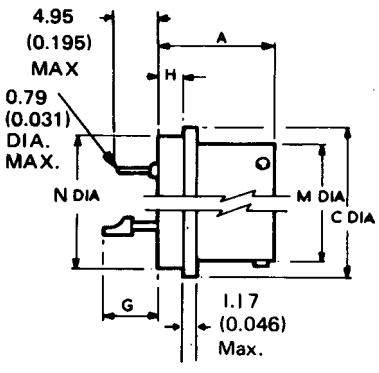




Solder Mtg. Hermetic Seal Receptacle

- 01H
6021 H
PAN 6432-1E

Shell Size	A max.	C max. Dia.	G max. contact Size 20	G max. contact Size 16	H max.	M max. Dia.	N max. Dia.	V min.	W Dia. ±0.13 (±.005)
8	**20.35** (0.801)	**16.13** (0.635)	**4.52** (0.178)	**6.30** (0.248)	**3.96** (0.156)	**12.04** (0.474)	**14.30** (0.563)	**23.62** (0.930)	**14.48** (0.570)
10	**20.35** (0.801)	**19.30** (0.760)	**4.52** (0.178)	**6.30** (0.248)	**3.96** (0.156)	**15.01** (0.591)	**17.09** (0.673)	**26.80** (1.055)	**17.27** (0.680)
12	**20.35** (0.801)	**21.69** (0.854)	**4.52** (0.178)	**6.30** (0.248)	**3.96** (0.156)	**19.08** (0.751)	**19.86** (0.782)	**29.98** (1.180)	**20.04** (0.789)
14	**20.35** (0.801)	**24.87** (0.979)	**4.52** (0.178)	**8.30** (0.248)	**3.96** (0.156)	**22.25** (0.876)	**23.04** (0.907)	**33.15** (1.305)	**23.22** (0.914)
16	**20.35** (0.801)	**28.04** (1.104)	**4.52** (0.178)	**6.30** (0.248)	**3.96** (0.156)	**25.43** (1.001)	**26.21** (1.032)	**37.85** (1.490)	**26.39** (1.039)
18	**20.35** (0.801)	**31.19** (1.228)	**4.52** (0.178)	**6.30** (0.248)	**3.96** (0.156)	**28.60** (1.126)	**29.39** (1.157)	**40.64** (1.600)	**29.57** (1.164)
20	**21.92** (0.863)	**33.58** (1.322)	**4.52** (0.178)	**6.30** (0.248)	**3.96** (0.156)	**31.78** (1.251)	**31.78** (1.251)	**43.81** (1.725)	**31.95** (1.258)
22	**22.73** (0.895)	**36.78** (1.448)	**3.71** (0.146)	**5.49** (0.216)	**4.79** (0.188)	**34.95** (1.376)	**34.95** (1.376)	**46.61** (1.835)	**35.13** (1.383)
24	**22.73** (0.895)	**39.98** (1.574)	**3.71** (0.146)	**5.49** (0.216)	**4.78** (0.188)	**38.13** (1.501)	**38.13** (1.501)	**49.78** (1.960)	**38 30** (1.508)

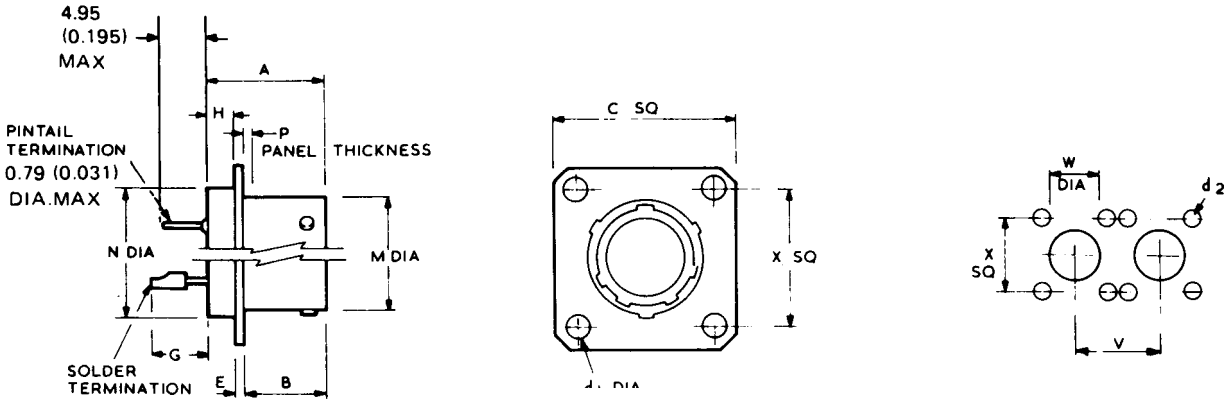


For pin tail termination contacts in hermetic connectors add deviation (345) to the Amphenol Part Number.

AMPHENOL LIMITED

Flange Mtg. Hermetic Seal Receptacle - 02H

PAN 6432 - 1T



Shell Size	A max.	B ±0.25 (±.010)	C Sq. max.	d_1 Dia. ±0.05 (±.002)	d_2 ±0.13 (±.005)	E ±0.41 (±.016)	G max. contact Size 20	G max. contact Size 16
8	**20.35** (0.801)	**14.94** (0.588)	**21.03** (0.828)	**3.05** (0.120)	**3.25** (0.128)	**1.57** (0.062)	**4.52** (0.178)	**6.30** (0.248)
10	**20.35** (0.801)	**14.94** (0.588)	**24.23** (0.954)	**3.05** (0.120)	**3.25** (0.128)	**1.57** (0.062)	**4.52** (0.178)	**6.30** (0.248)
12	**20.35** (0.801)	**14.94** (0.588)	**26.59** (1.047)	**3.05** (1.120)	**3.25** (0.128)	**1.57** (0.062)	**4.52** (0.178)	**6.30** (0.248)
14	**20.35** (0.801)	**14.94** (0.588)	**28.98** (1.141)	**3.05** (0.120)	**3.25** (0.128)	**1.57** (0.062)	**4.52** (0.178)	**6.30** (0.248)
16	**20.35** (0.801)	**14.94** (0.588)	**31.34** (1.234)	**3.05** (0.120)	**3.25** (0.128)	**1.57** (0.062)	**4.52** (0.178)	**6.30** (0.248)
18	**20.35** (0.801)	**14.94** (0.588)	**33.73** (1.328)	**3.05** (0.120)	**3.25** (0.128)	**1.57** (0.062)	**4.57** (0.178)	**6.30** (0.248)
20	**21.92** (0.863)	**16.51** (0.650)	**36.91** (1.453)	**3.05** (0.120)	**3.25** (0.128)	**2.39** (0.094)	**4.52** (0.178)	**6.30** (0.248)
27	**27.73** (0.895)	**16.51** (0.650)	**40.08** (1.578)	**3.05** (0.120)	**3.25** (0.128)	**2.39** (0 094)	**3.71** (0.146)	**5.49** (0.216)
24	**22.73** (0.805)	**16.51** (0.650)	**13.26** (1.703)	**3.73** (0.147)	**3.94** (0.155)	**2.39** (0.094)	**3.71** (0.146)	**5.49** (0.216)

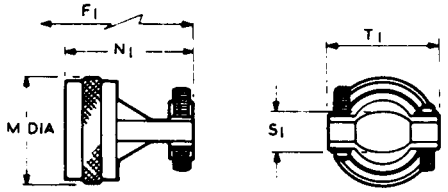
Shell Size	H max.	M Dia. max	N Dia. max	P max. Panel Thickness	V min	W dia. +0.13 (+.005)	X sq. +0.13 (+.005)
8	**3.18** (0.125)	**12.04** (0.474)	**14.30** (0.563)	**2.21** (0.087)	**23.62** (0.930)	**14.43** (0.568)	**15.09** (0.594)
10	**3.18** (0.125)	**15.01** (0.591)	**17.09** (0.673)	**2.21** (0.087)	**26.80** (1.055)	**17.40** (0.685)	**18.26** (0.719)
17	**3.18** (0.125)	**19.08** (0.751)	**19.86** (0.782)	**2.21** (0.087)	**29.98** (1.180)	**21.95** (0.864)	**20.62** (0.812)
14	**3.18** (0.125)	**22.25** (0.876)	**23.04** (0.907)	**2.21** (0.087)	**33.15** (1.305)	**25.12** (0.989)	**23.01** (0.906)
16	**3.18** (0.125)	**25.43** (1.001)	**26.21** (1.032)	**2.21** (0.087)	**37.85** (1.490)	**28.27** (1.113)	**24.61** (0.969)
18	**3.18** (0.125)	**28.60** (1.126)	**29.39** (1.157)	**2.21** (0.087)	**40.64** (1.600)	**31.45** (1.238)	**26.97** (1.062)
20	**2.36** (0.093)	**31.78** (1.251)	**31.78** (1.251)	**5.38** (0.212)	**43.81** (1.725)	**34.62** (1.363)	**29.36** (1.156)
22	**3.18** (0.125)	**34.95** (1.376)	**34.95** (1.376)	**5.38** (0.212)	**46.61** (1.835)	**37.80** (1.488)	**31.75** (1.250)
24	**3.18** (0.125)	**38.13** (1.501)	**38.13** (1.501)	**5.38** (0.212)	**49.78** (1.960)	**41.07** (1.615)	**34.92** (1.375)

For pin tail termination contacts in hermetic connectors add deviation (345) to the Amphenol Part Number.

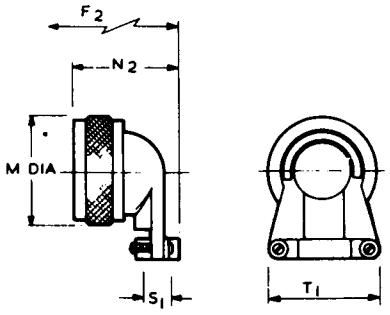
AMPHENOL LIMITED

Cable Accessories

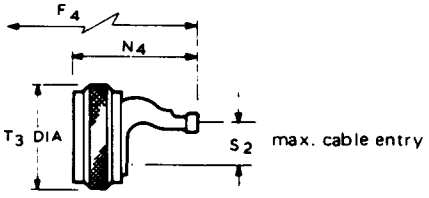
To ensure the best performance of the connector wire sealing grommet it is recommended that a Strain Relief Accessory should be fitted. See ordering information on pages 9 & 10.



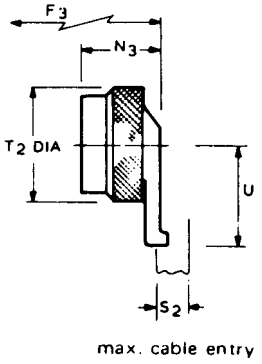
With Straight Strain Relief Saddle Clamp.
For ordering as a separate item 602GB-198-XX replace XX by shell size required
e.g. 602GB-198-18.



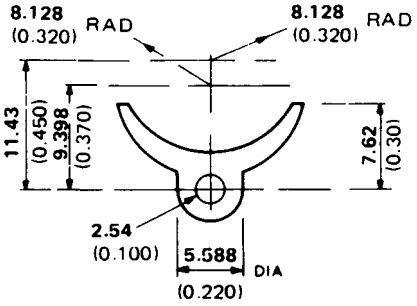
With 90° Strain Relief Saddle Clamp.
For ordering as a separate item 602GB-199-XX replace XX by shell size required e.g. 602GB-199-18



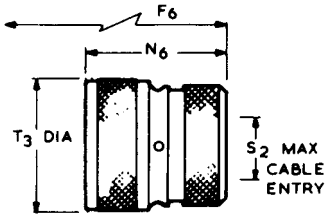
With Straight Strain Relief Clamp.
For ordering as a separate item 602GB-129-XX or PAN 6432-1 D-XX replace XX by shell size required
e.g. 602GB-129-08
or PAN 6432-1 D-08.



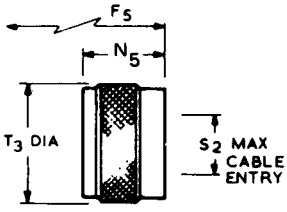
With 90⁰ Strain Relief Clamp.
For ordering as a separate item 602GB-133-XX or PAN 6432-1 K-XX replace XX by shell size required
e.g. 602GB-133-08
or PAN 6432-1 K-OE.



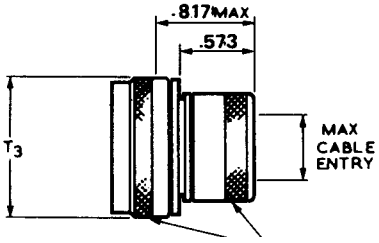
Spacer pad for Cable tie type strain relief clamps 602GB-141



Grommet nut assembly for heat shrink boot
602GB-140-XX replace XX by shell size required
e.g. 602GB-140-08.



Grommet nut Without Strain Relief
For ordering as a separate item 602GB-127-XX or PAN 6432-1 C-XX replace XX by shell size required.
e.g. 602GB-127-08
or PAN 6432-1 C-08.



RFI Adaptor for heat shrink boot 602GB-285-XX for use with 06EG and 05EG plugs.
Note: As part no. depends on cable being used please consult factory for details.

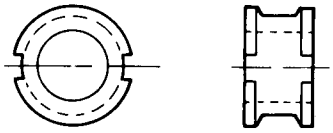
Note: For cable accessory dimensions see tables on following page.

AMPHENOL LIMITED

Cable Accessories

RESILIENT BUSH
These bushes are for use with saddle clamp type strain relief clamps but are not included with these accessories and if required must be ordered separately**.**

602GB-205-XX or PAN 6432-1 H-XX replace XX by shell size required.
e.g. 602GB-205-18 or PAN 6432 -1 H-18.



Shell Size	F_1 max. when fitted to		F_2 max. when fitted to		F_3 max. when fitted to		F_4 max. when fitted to		F_5 max. when fitted to		F_6 max. when fitted to		M dia max.
	Plug	Recept.	Plug	Recept.	Plug	Recept.	Plug	Recept.	Plug	Recept.	Plug	Recept.	
8	**48.67** (1.916)	**48.29** (1.901)	**52.45** (2.065)	**52.07** (2.050)	**43.56** (1.715)	**43.18** (1.700)	**54.79** (2.157)	**54.33** (2.139)	**38.28** (1.507)	**37.90** (1.492)	**53.24** (2.092)	**52.76** (2.077)	**15.67** (0.617)
10	**51.46** (2.026)	**51.08** (2.011)	**54.53** (2.147)	**54.15** (2.132)	**43.56** (1.175)	**43.18** (1.700)	**54.79** (2.157)	**54.33** (2.139)	**38.28** (1.507)	**37.90** (1.492)	**53.24** (2.092)	**52.76** (2.077)	**18.64** (0.734)
12	**54.64** (2.151)	**54.25** (2.136)	**59.44** (2.340)	**59.05** (2.325)	**43.56** (1.175)	**43.18** (1.700)	**56.31** (2.217)	**55.85** (2.199)	**38.28** (1.507)	**37.90** (1.492)	**54.24** (2.092)	**52.76** (2.077)	**21.79** (0.858)
14	**54.64** (2.151)	**54.25** (2.136)	**60.96** (2.400)	**60.58** (2.385)	**43.56** (1.175)	**43.18** (1.700)	**60.63** (2.387)	**60.17** (2.369)	**38.28** (1.507)	**37.90** (1.492)	**54.24** (2.092)	**52.76** (2.077)	**24.99** (0.984)
16	**57.81** (2.270)	**57.43** (2.261)	**64.74** (2.549)	**64.36** (2.534)	**43.56** (1.175)	**43.18** (1.700)	**60.63** (2.387)	**60.17** (2.369)	**38.28** (1.507)	**37.90** (1.492)	**54.24** (2.092)	**52.76** (2.077)	**28.24** (1.112)
18	**64.16** (2.526)	**63.78** (2.511)	**67.59** (2.661)	**67.21** (2.646)	**44.20** (1.740)	**43.18** (1.700)	**62.66** (2.467)	**62.20** (2.449)	**38.28** (1.507)	**37.90** (1.492)	**54.24** (2.092)	**52.76** (2.077)	**30.94** (1.218)
20	**67.34** (2.651)	**68.48** (2.696)	**70.76** (2.786)	**71.91** (2.831)	**44.20** (1.740)	**45.34** (1.785)	**65.96** (2.597)	**67.03** (2.639)	**38.28** (1.507)	**39.42** (1.552)	**54.24** (2.092)	**52.76** (2.077)	**34.16** (1.345)
22	**70.51** (2.776)	**71.65** (2.821)	**73.94** (2.911)	**75.08** (2.956)	**44.20** (1.740)	**45.34** (1.785)	**69.01** (2.717)	**70.08** (2.759)	**38.28** (1.071)	**39.42** (1.552)	**54.24** (2.092)	**52.76** (2.077)	**37.29** (1.468)
24	**73.69** (2.901)	**74.83** (2.946)	**77.11** (3.036)	**78.26** (3.081)	**44.20** (1.740)	**45.34** (1.785)	**72.31** (2.847)	**73.38** (2.889)	**38.28** (1.507)	**39.42** (1.552)	**54.24** (2.092)	**52.76** (2.077)	**40.46** (1.593)

Shell Size	N_1 max.	N_2 max.	N_3 max.	N_4 max.	N_5 max.	N_6 Max.	S_1 Cable Entry		S_2 dia. max.	T_1 max.	T_2 dia. max.	T_3 dia. max.	U max.
							Open	Closed					
8	**24.18** (0.952)	**27.97** (1.101)	**19.08** (0.751)	**30.23** (1.190)	**13.72** (0.540)	**28.58** (1.125)	**5.18** (0.204)	**3.18** (0.125)	**6.60** (0.260)	**19.10** (0.752)	**16.69** (0.657)	**15.67** (0.617)	**30.99** (1.220)
10	**26.97** (1.062)	**30.05** (1.183)	**19.08** (0.751)	**30.23** (1.190)	**13.72** (0.540)	**28.58** (1.125)	**7.26** (0.286)	**4.75** (0.187)	**9.27** (0.365)	**21.13** (0.832)	**19.86** (0.782)	**18.64** (0.734)	**30.99** (1.220)
12	**30.15** (1.187)	**34.95** (1.376)	**19.08** (0.751)	**31.75** (1.250)	**13.72** (0.540)	**28.58** (1.125)	**10.57** (0.416)	**7.39** (0.291)	**12.73** (0.501)	**25.10** (0.988)	**23.80** (0.937)	**21.79** (0.858)	**41.15** (1.620)
14	**30.15** (1.187)	**36.47** (1.436)	**19.08** (0.751)	**36.07** (1.420)	**13.72** (0.540)	**28.58** (1.125)	**12.09** (0.476)	**8.92** (0.351)	**14.60** (0.575)	**26.57** (1.046)	**26.67** (1.050)	**24.99** (0.984)	**42.16** (1.660)
16	**33.32** (1.312)	**40.26** (1.585)	**19.08** (0.751)	**36.07** (1.420)	**13.72** (0.540)	**28.58** (1.125)	**15.88** (0.625)	**12.73** (0. 501)	**17.78** (0.700)	**33.50** (1.319)	**31.47** (1.239)	**28.24** (1 .112)	**43.69** (1.720)
18	**39.67** (1.562)	**43.10** (1.697)	**19.71** (0.776)	**38.10** (1.500)	**13.72** (0.540)	**28.58** (1.125)	**17.93** (0.706)	**13.16** (0.518)	**19.79** (0.779)	**36.86** (1.451)	**35.00** (1.378)	**30.94** (1.218)	**43.69** (1.720)
20	**42.85** (1.687)	**46.28** (1.822)	**19.71** (0.776)	**41.40** (1.630)	**13.72** (0.540)	**28.58** (1.125)	**21.11** (0.831)	**14.76** (0.581)	**22.96** (0.904)	**39.55** (1.557)	**38.10** (1.500)	**34.16** (1.345)	**45.47** (1.790)
22	**46.02** (1.812)	**49.45** (1.947)	**19.71** (0.776)	**44.45** (1.750)	**13.72** (0.540)	**28.58** (1.125)	**24.28** (0.956)	**16.36** (0.644)	**26.14** (1.029)	**41.99** (1.653)	**41.43** (1.631)	**37.29** (1.468)	**46.99** (1.850)
24	**49.20** (1.937)	**52.83** (2.072)	**19.71** (0.776)	**47.75** (1.880)	**13.72** (0.540)	**28.58** (1.125)	**27.46** (1.081)	**17.93** (0.706)	**29.06** (1.144)	**45.08** (1.775)	**44.45** (1.750)	**40.46** (1.593)	**48.51** (1.910)