



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.

# Amphenol

# AMPHENOL LIMITED

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

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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.

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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.

## 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 fluorosilicone.

The connectors have gold plated contacts with crimp terminations. Pintail or solder bucket terminations are available in sealed (low profile) and Hermetic receptacles.

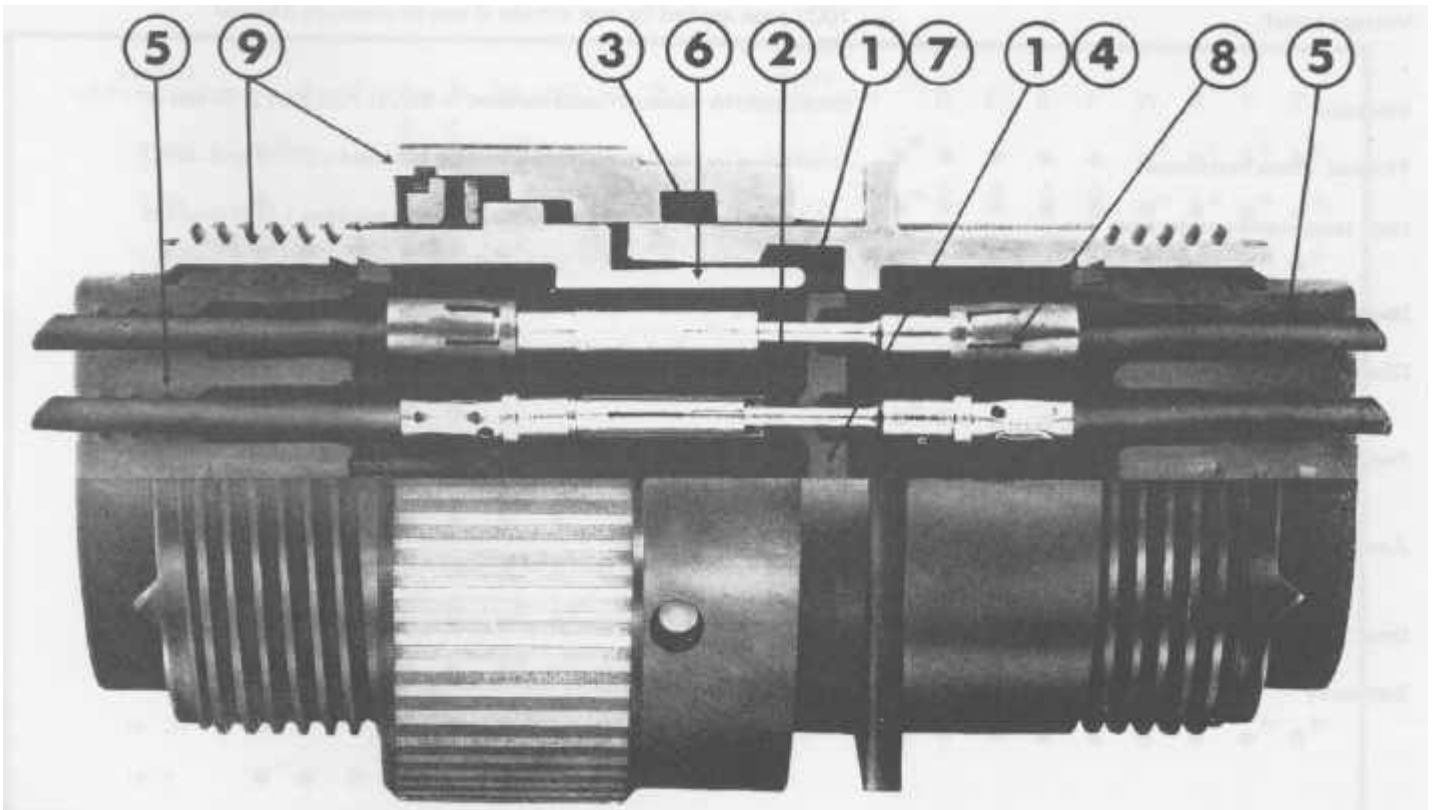
Sealed (Low Profile) receptacles have a maximum leakage of 1 cc/ per hour at 1 atmosphere.

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.                              | 5. Triple riser wire sealing.                                               |
| 2. Closed entry hard front socket insert.                               | 6. 5 key shell polarisation.                                                |
| 3. Triple track positive bayonet locking with visual mating indication. | 7. Peripheral shell seal.                                                   |
| 4. Interfacial mating 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 out in the United Kingdom by Amphenol Limited*

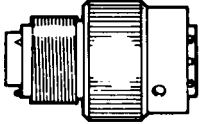
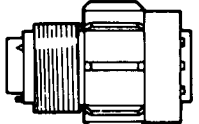
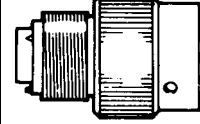
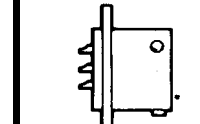
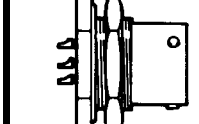
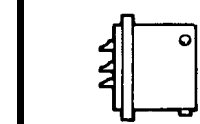
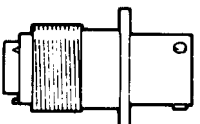
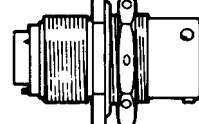
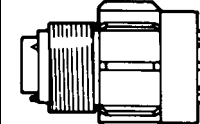
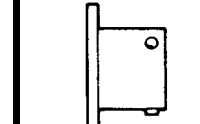
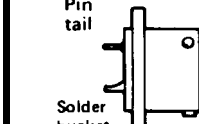
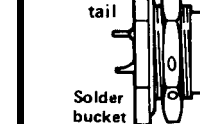
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## 602GB Series EL2112 Patt.602 Specification Requirements

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

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

## Polarisation Availability

| INSERT<br>ARRANGEMENT | B  | C | E | F | W  | X  | Y  | Z  | INSERT<br>ARRANGEMENT | B  | C | E | F | W  | X  | Y  | Z  |
|-----------------------|----|---|---|---|----|----|----|----|-----------------------|----|---|---|---|----|----|----|----|
| 8-33                  | ●* |   | △ | △ | ●* |    |    |    | 18-11                 | ●* | ● | ● | ● | ●* | ●* | ●* | ●* |
| 8-98                  | ●  |   | ● | ● |    |    |    |    | 18-32                 | ●* | △ | △ | △ | ●* | ●* | ●* | ●* |
| 10-6                  | ●* | △ | △ | △ | ●* |    |    |    | 20-16                 | ●* | ● | ● | ● | ●* | ●* | ●* | ●* |
| 12-3                  | ●* | ● | ● | ● |    |    | ●* |    | 20-39                 | ●  | ● | ● | ● | ●  | ●  | ●  | ●  |
| 12-10                 | ●* | △ | △ | △ | ●* | ●* | ●* | ●* | 20-41                 | ●* | ● | ● | ● | ●* | ●* | ●* |    |
| 14-4                  | ●* | △ | △ | △ | †* |    |    |    | 22-12                 | ●* | ● | ● | ● |    |    |    |    |
| 14-5                  | ●* | ● | ● | ● | ●* | ●* | ●* | ●* | 22-21                 | ●* | ● | ● | ● | ●* | ●* | ●* | ●* |
| 14-12                 | ●* | ● | ● | ● | ●* | ●* |    |    | 22-41                 | ●* | ● | ● | ● | ●* | †  | †  |    |
| 14-15                 | ●  | ● | ● | ● | ●  | ●  | ●  | ●  | 22-55                 | ●* | ● | ● | ● | ●* | ●* | ●* | ●* |
| 14-19                 | ●* | △ | △ | △ | ●* | ●* | ●* |    | 24-19                 | ●* | △ | △ | △ | ●* | ●* | ●* |    |
| 16-8                  | ●* | ● | ● | ● | ●* | ●* | ●* | ●* | 24-31                 | ●* | ● | ● | ● | ●* | ●* | ●  |    |
| 16-26                 | ●* | ● | ● | ● | ●* | ●* | ●* |    | 24-61                 | ●* | ● | ● | ● | ●* | ●* | ●* | ●* |
| 18-8                  | ●* | ● | ● | ● |    |    |    |    |                       |    |   |   |   |    |    |    |    |

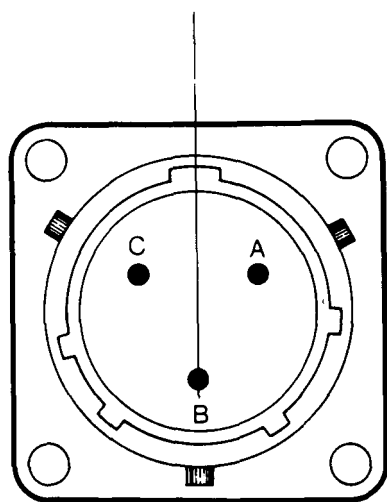
For orientations not shown above consult factory

- \* Inserts and orientations in PAN 6432-1.
- △ Inserts and orientations in PAN 6432-4.

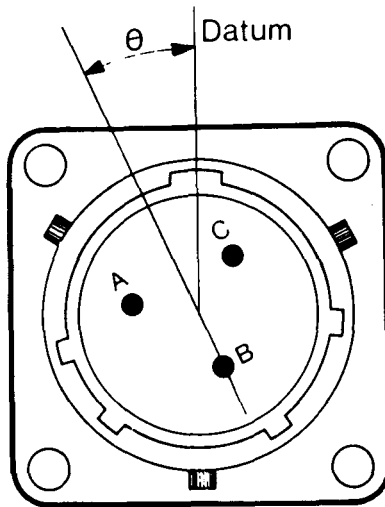
† These polarisations are not included in EL2112 Pattern 602 but are available as Amphenol proprietary part numbers.

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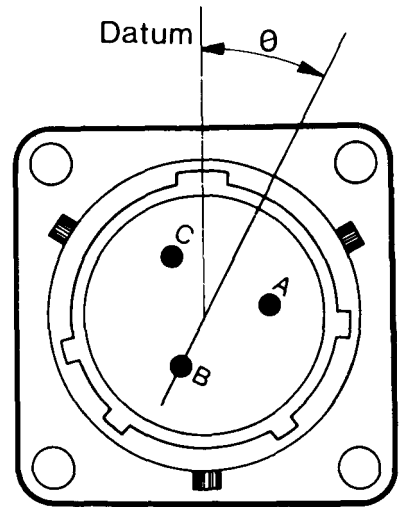
## Insert Orientations



Normal position  
with pin contacts



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

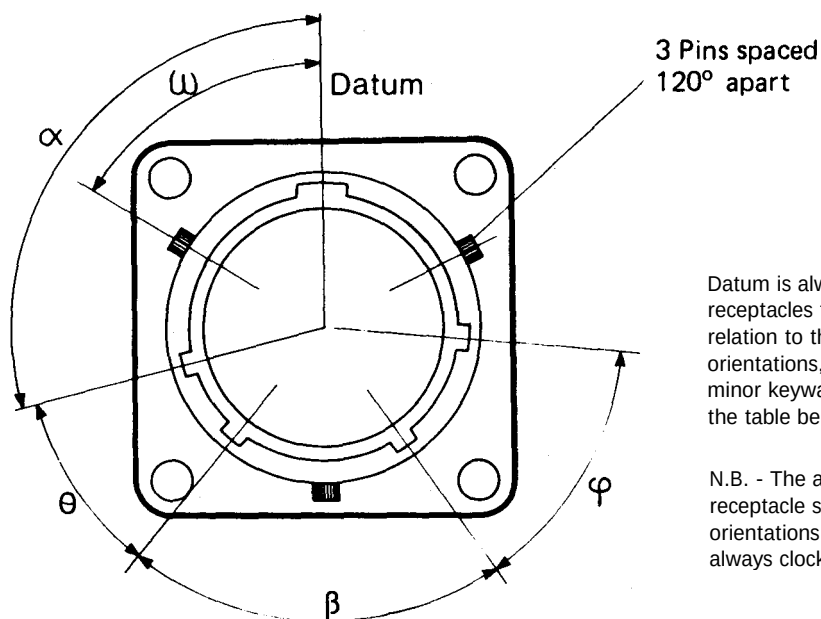


Alternate position of insert  
with pin contacts  
( ∅ clockwise)

Each diagram shows mating face of insert

| Insert<br>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 |

## 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 Size | VALUES FOR $\alpha$ (degrees) |    |     |     |     | VALUES FOR $\theta$ (degrees) |    |    |    |    | VALUES FOR $\beta$ (degrees) |    |    |     |    |
|------------|-------------------------------|----|-----|-----|-----|-------------------------------|----|----|----|----|------------------------------|----|----|-----|----|
|            | 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 Size | VALUES FOR $\phi$ (degrees) |    |    |    |    | VALUES FOR $\omega$ (degrees) |    |    |    |    |
|------------|-----------------------------|----|----|----|----|-------------------------------|----|----|----|----|
|            | ORIENTATION                 |    |    |    |    | ORIENTATION                   |    |    |    |    |
|            | 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

| 8                                                                                                                                                                                                                                                                                                                                                               | 10                                                                                                                                                                                                                                                          | 12                                                                                                                                                                                                                                                                                                                                                                 | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <div>8-33<br/> <math>\Delta</math> H</div> <div>8-98<br/> H</div>                                                                                                                             | <div>10-6<br/> <math>\Delta</math> H</div>                                                                                                                                 | <div>12-10<br/> <math>\Delta</math> H</div>                                                                                                                                                                                                                                       | <div>14-4<br/> <math>\Delta</math></div> <div>14-12<br/> <math>\Delta</math></div> <div>14-15<br/> H</div> <div>14-19<br/> <math>\Delta</math> H</div> | <div>16-26<br/> <math>\Delta</math> H</div> |
| <p>† Lettering of inserts shown here corresponds to views of front (mating) surface of pin inserts or rear face (cable accessory end) of socket inserts.<br/>H styles available in hermetic versions.<br/><math>\Delta</math> styles available with fixed contacts.</p> <p>Key O No. 20 size contacts<br/>● No. 16 size contacts<br/>○ No. 12 size contacts</p> |                                                                                                                                                                                                                                                             | <div>12-3<br/> <math>\Delta</math> H</div>                                                                                                                                                                                                                                        | <div>14-5<br/> <math>\Delta</math> H</div>                                                                                                                                                                                                                                                                                                                                                                    | <div>16-8<br/> <math>\Delta</math> H</div>  |
| 18                                                                                                                                                                                                                                                                                                                                                              | 20                                                                                                                                                                                                                                                          | 22                                                                                                                                                                                                                                                                                                                                                                 | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                |
| <div>18-8<br/> <math>\Delta</math> H</div> <div>18-32<br/> <math>\Delta</math> H</div>                                                                                                       | <div>20-41<br/> <math>\Delta</math> H</div> <div>20-39<br/> <math>\Delta</math> H</div> | <div>22-12<br/> H</div> <div>22-41<br/> <math>\Delta</math></div> <div>22-55<br/> <math>\Delta</math> H</div> | <div>24-31<br/> <math>\Delta</math> H</div> <div>24-61<br/> <math>\Delta</math> H</div>                                                                                                                                                                                                                                  |                                                                                                                                |
| <div>18-11<br/> H</div>                                                                                                                                                                                                                                                      | <div>20-16<br/> <math>\Delta</math></div>                                                                                                                                | <div>22-21<br/> <math>\Delta</math></div>                                                                                                                                                                                                                                       | <div>24-19<br/> <math>\Delta</math></div>                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                |

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

| RATING 2<br>ALTITUDE | VOLTAGE RATING 2<br>RECOMMENDED<br>WORKING<br>VOLTAGE | TEST<br>VOLTAGE |
|----------------------|-------------------------------------------------------|-----------------|
|                      | a.c.                                                  | a.c.            |
|                      | r.m.s.                                                | 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 times 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

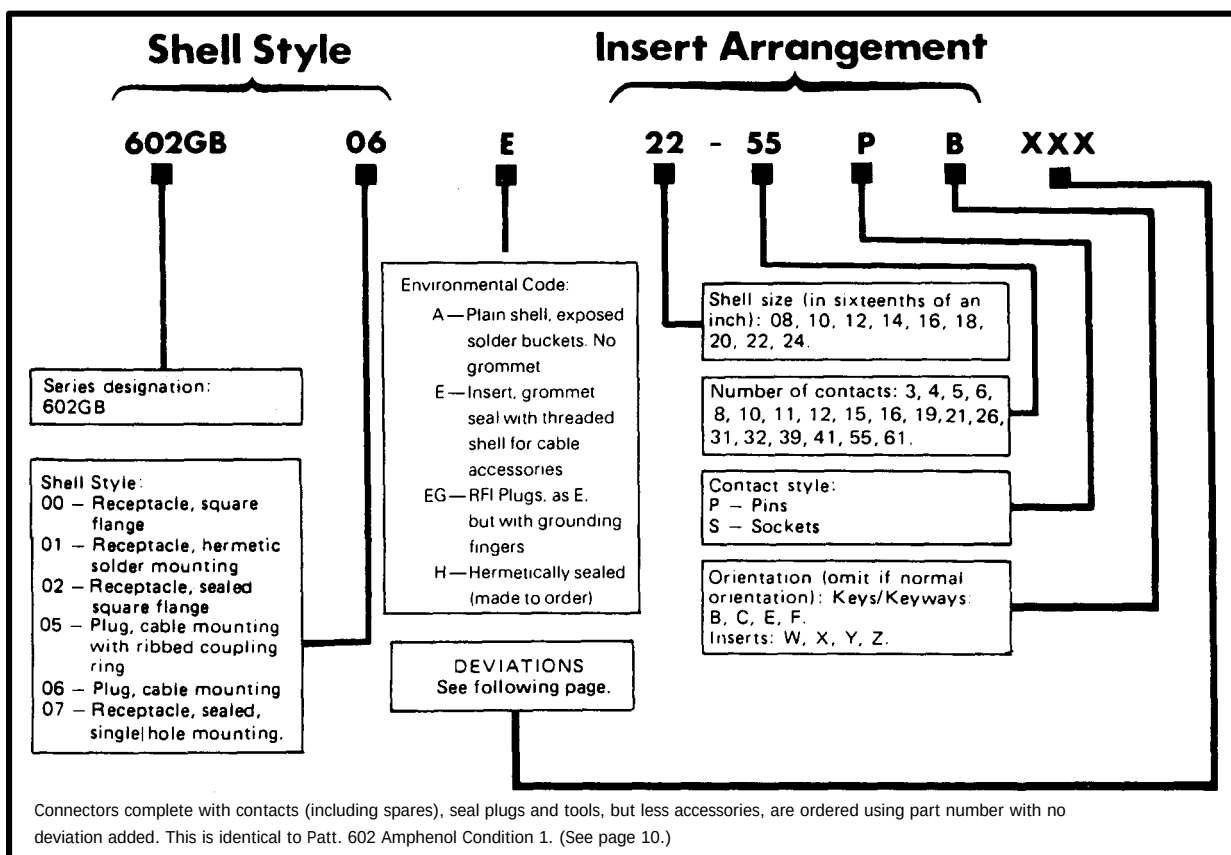
Size 16 Contacts 15A

Size 12 Contacts 25A

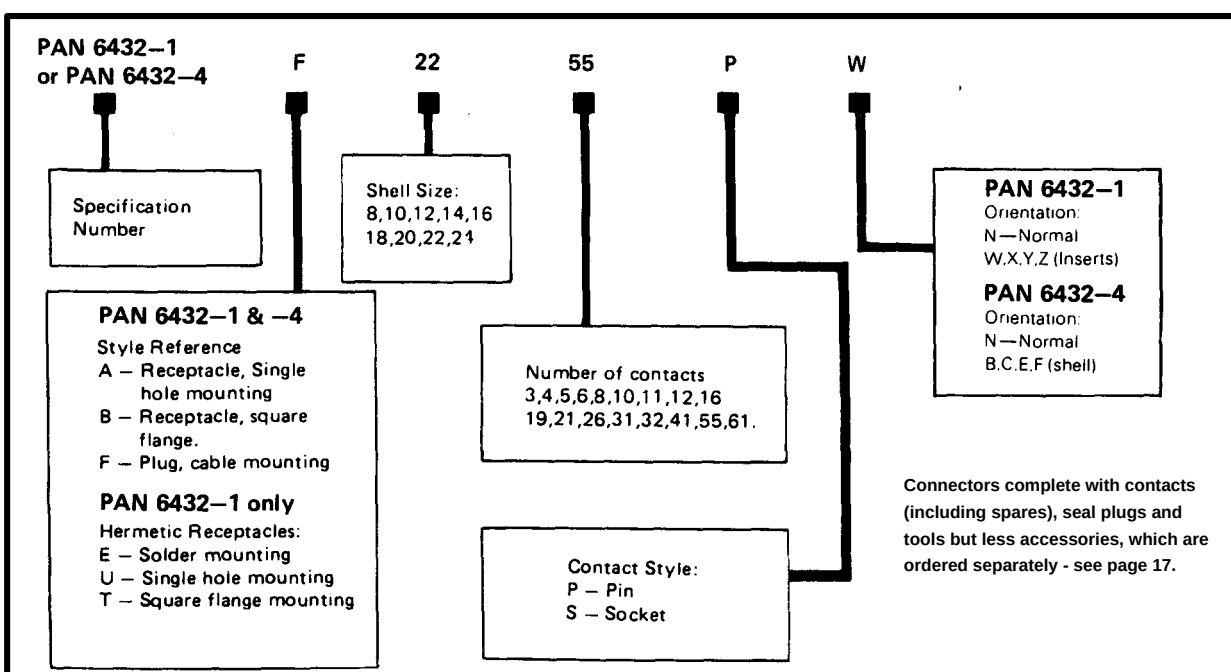
# AMPHENOL LIMITED

## 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.



## Ordering by Panavia Part Numbers

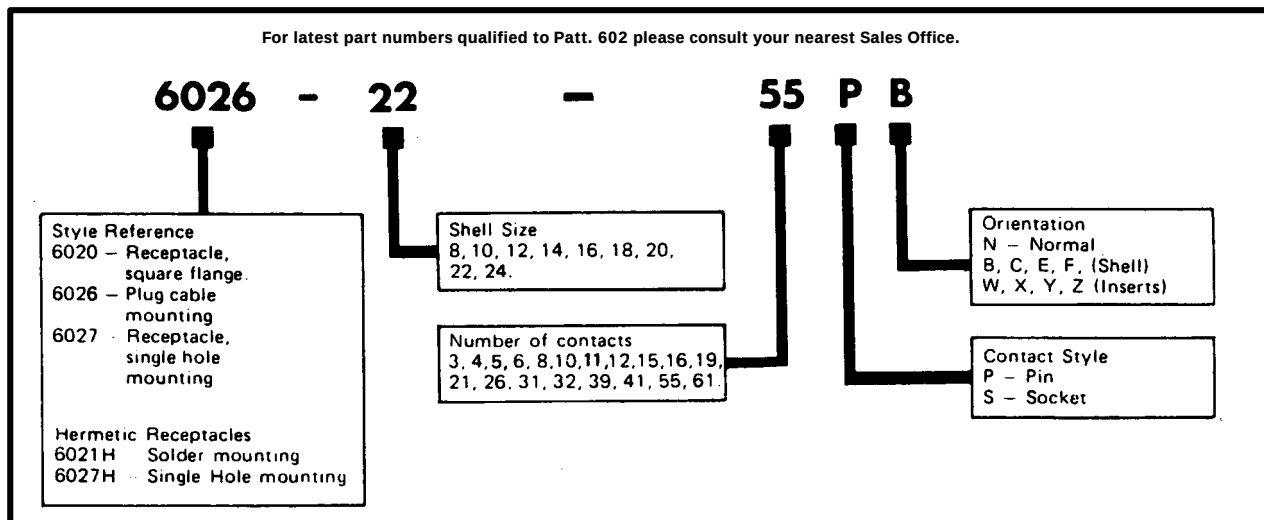


NOTE: Whether you order by the 602 Series, Panavia or the Pattern 602 number, all qualified connectors are supplied marked with Pattern 602 part numbers. (See page 10).

# AMPHENOL LIMITED

## 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.



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.

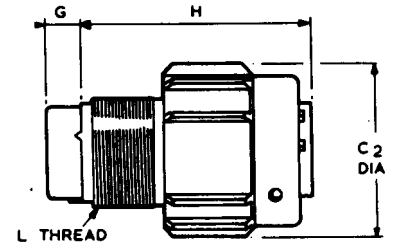
Deviation (219) Receptacles only, film wire terminations.

Deviation (345) Hermetic receptacles only, pintail terminations.

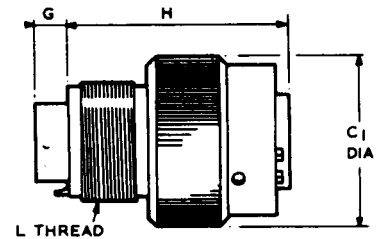
# AMPHENOL LIMITED

## 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 (1.230) | 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   |



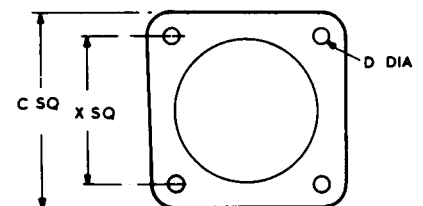
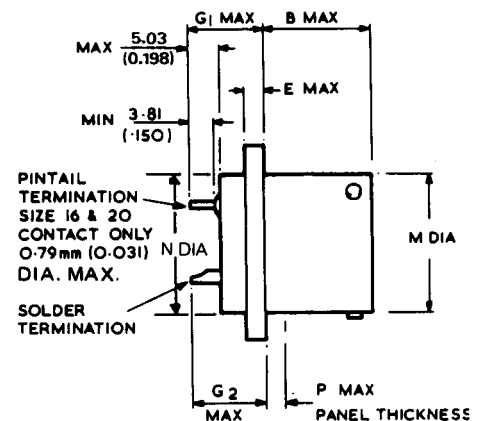
## Standard Plug -06E 6026 PAN 6432 - 1F PAN 6432 - 4F Grounded Plug 06EG



## 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

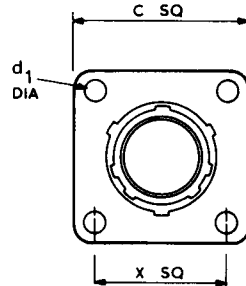
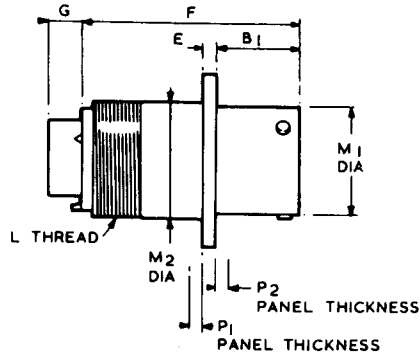
PAN 6432-1B

PAN 6432-4B

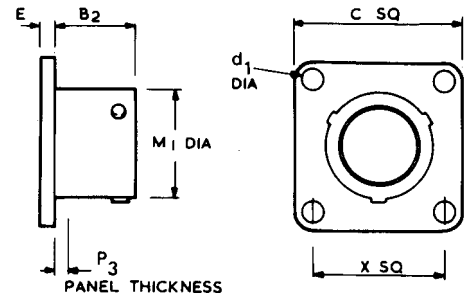
Dummy

Receptacle - 188

PAN 6432-1R



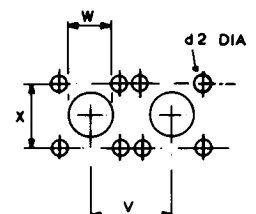
Ordering Details 602GB-188-XX or PAN 6432-1 R-XX replace XX by shell size required e.g. 602GB-188-18 or PAN 6432-1R-18.



| Shell Size | B1<br>± 0.38<br>(± .015) | B2<br>± 0.25<br>(± .010) | C<br>Sq<br>max.  | D1 dia.<br>± 0.05<br>(± .002) | D2 dia.<br>+ 0.13<br>(+ .005) | E<br>± 0.41<br>(± .016) | F<br>max.        | G<br>± 0.76<br>(± .030) | L Thd<br>UNEF 2A |
|------------|--------------------------|--------------------------|------------------|-------------------------------|-------------------------------|-------------------------|------------------|-------------------------|------------------|
| 8          | 11.33<br>(0.446)         | 12.12<br>(0.477)         | 21.03<br>(0.828) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 1.57<br>(0.062)         | 30.86<br>(1.215) | 4.06<br>(0.160)         | ½ -20            |
| 10         | 11.33<br>(0.446)         | 12.12<br>(0.477)         | 24.23<br>(0.954) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 1.57<br>(0.062)         | 30.86<br>(1.215) | 4.06<br>(0.160)         | 5/8 - 24         |
| 12         | 11.33<br>(0.446)         | 12.12<br>(0.477)         | 26.59<br>(1.047) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 1.57<br>(0.062)         | 30.86<br>(1.215) | 4.06<br>(0.160)         | ¾ - 20           |
| 14         | 11.33<br>(0.446)         | 12.12<br>(0.477)         | 28.98<br>(1.141) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 1.57<br>(0.062)         | 30.86<br>(1.215) | 4.06<br>(0.160)         | 7/8 - 20         |
| 16         | 11.33<br>(0.446)         | 12.12<br>(0.477)         | 31.34<br>(1.234) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 1.57<br>(0.062)         | 30.86<br>(1.215) | 4.06<br>(0.160)         | 1 - 20           |
| 18         | 11.33<br>(0.446)         | 12.12<br>(0.477)         | 33.73<br>(1.328) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 1.57<br>(0.062)         | 30.86<br>(1.215) | 4.06<br>(0.160)         | 1 1/16 - 18      |
| 20         | 14.50<br>(0.571)         | 14.50<br>(0.571)         | 36.91<br>(1.453) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 2.39<br>(0.094)         | 32.38<br>(1.275) | 4.06<br>(0.160)         | 1 3/16 - 18      |
| 22         | 14.50<br>(0.571)         | 14.50<br>(0.571)         | 40.08<br>(1.578) | 3.18<br>(0.125)               | 3.25<br>(0.128)               | 2.39<br>(0.094)         | 32.38<br>(1.275) | 4.06<br>(0.160)         | 1 5/16 - 18      |
| 24         | 15.37<br>(0.605)         | 15.37<br>(0.605)         | 43.26<br>(1.703) | 3.86<br>(0.152)               | 3.94<br>(0.155)               | 2.39<br>(0.094)         | 32.38<br>(1.275) | 4.06<br>(0.160)         | 1 7/16 - 18      |

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

### PANEL PIERCING



# AMPHENOL LIMITED

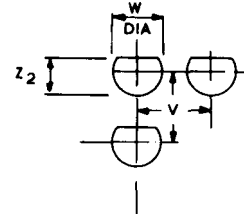
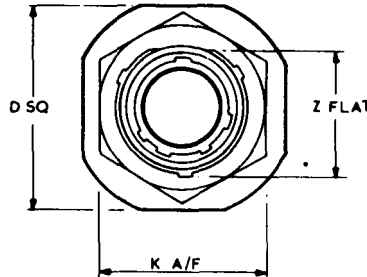
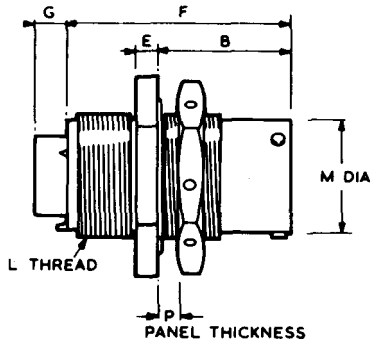
## Single Hole Mtg .Receptacle

-07E

6027

PAN 6432-1A

PAN 6432-4A



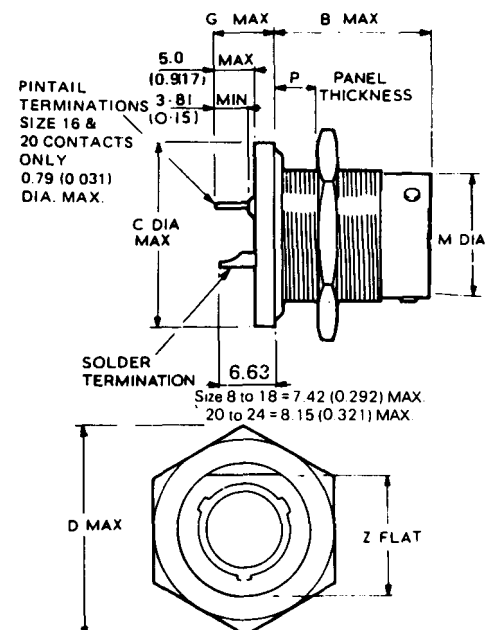
| Shell Size | B max.        | D Sq.         | E max.       | F max.        | G ± 0.76 (± .030) | K A/F max.    | L Thd UNEF 2A | M Max. dia.   | P Panel thickness max. min. |              | V min.        | W dia. ± 0.13 (± .005) | Z <sub>1</sub> ± 0.13 (± .005) | Z <sub>2</sub> ± 0.13 (± .005) |
|------------|---------------|---------------|--------------|---------------|-------------------|---------------|---------------|---------------|-----------------------------|--------------|---------------|------------------------|--------------------------------|--------------------------------|
| 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. 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.

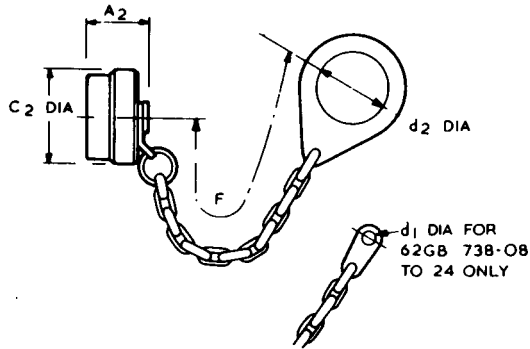
\*For other Pintail lengths consult factory.

# AMPHENOL LIMITED

## Caps & Chains

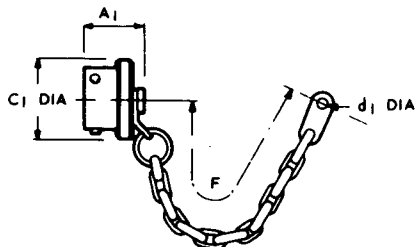
62GB Series caps and chains are common to 602GB and 62GB Series

### STANDARD TYPE



**To fit**  
Single hole fixing receptacles  
Flange mounting receptacles

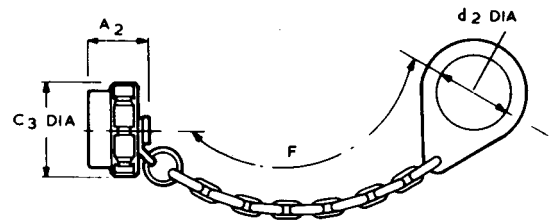
**Amphenol Part No. Panavia No.**  
62GB-736-08 to 24 PAN 6432-1 MA-08 to 24  
62GB-738-08 to 24 PAN 6432-1 MB-08 to 24



**To fit**  
Plugs

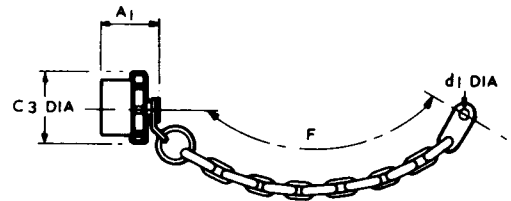
**Amphenol Part No. Panavia No.**  
602GB-149-08-24 PAN 6432-1 MF-08 to 24  
not suitable for use with 62GB series.

### RIBBED TYPE



**To fit**  
Single hole fixing receptacles

**Amphenol Part No.**  
62GB-997-08 to 24



**To fit**  
Plugs

**Amphenol Part No.**  
6026 B-134-08 to 24

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

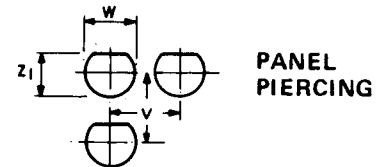
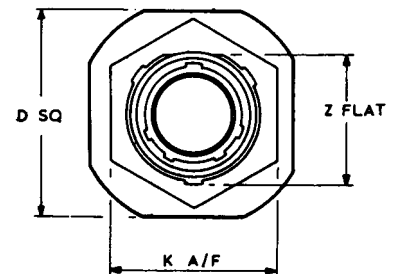
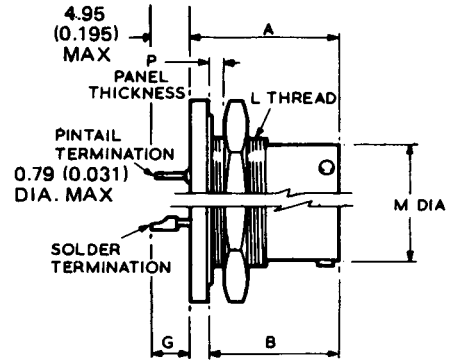
| Shell Size | A1 max.       | A2 max.       | C1 Dia. max.  | C2 Dia. max.  | C3 Dia. Max.  | d1 +0.5 -0.13 (+.010) (-.005) | d2 +0.25 (+.010) | F approx.      |
|------------|---------------|---------------|---------------|---------------|---------------|-------------------------------|------------------|----------------|
| 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**

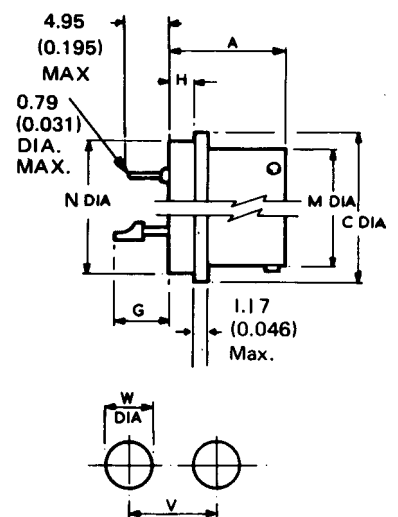
| Shell Size | A max            | B max                       | D sq. max        | G max.           |                              | K A/F max.                   | L Thd UNEF 2A                 |
|------------|------------------|-----------------------------|------------------|------------------|------------------------------|------------------------------|-------------------------------|
|            |                  |                             |                  | contact Size 20  | contact Size 16              |                              |                               |
| 8          | 20.83<br>(0.820) | 17.96<br>(0.707)            | 24.23<br>(0.954) | 3.40<br>(0.134)  | 5.18<br>(0.204)              | 19.48<br>(0.767)             | $\frac{9}{16} - 24$           |
| 10         | 20.83<br>(0.820) | 17.96<br>(0.707)            | 27.38<br>(1.078) | 3.40<br>(0.134)  | 5.18<br>(0.204)              | 22.66<br>(0.892)             | $\frac{11}{16} - 24$          |
| 12         | 20.83<br>(0.820) | 17.96<br>(0.707)            | 32.16<br>(1.266) | 3.40<br>(0.134)  | 5.18<br>(0.204)              | 27.41<br>(1.079)             | $\frac{7}{8} - 20$            |
| 14         | 20.83<br>(0.820) | 17.96<br>(0.707)            | 35.33<br>(1.391) | 3.40<br>(0.134)  | 5.18<br>(0.204)              | 30.61<br>(1.205)             | 1 - 20                        |
| 16         | 20.83<br>(0.820) | 17.96<br>(0.707)            | 38.51<br>(1.516) | 3.40<br>(0.134)  | 5.18<br>(0.204)              | 33.76<br>(1.329)             | $1 \frac{1}{8} - 18$          |
| 18         | 20.83<br>(0.820) | 17.96<br>(0.707)            | 41.68<br>(1.641) | 3.40<br>(0.134)  | 5.18<br>(0.204)              | 36.96<br>(1.455)             | $1 \frac{1}{4} - 18$          |
| 20         | 23.37<br>(0.920) | 19.61<br>(0.772)            | 46.43<br>(1.828) | 2.51<br>(0.099)  | 4.29<br>(0.169)              | 40.11<br>(1.579)             | $1 \frac{3}{8} - 18$          |
| 22         | 23.37<br>(0.920) | 19.61<br>(0.772)            | 49.63<br>(1.954) | 2.51<br>(0.099)  | 4.29<br>(0.169)              | 43.31<br>(1.705)             | $1 \frac{1}{2} - 18$          |
| 24         | 24.16<br>(0.951) | 20.40<br>(0.803)            | 52.78<br>(2.078) | 2.51<br>(0.099)  | 4.29<br>(0.169)              | 46.46<br>(1.829)             | $1 \frac{5}{8} - 18$          |
| Shell Size | M Dia. max.      | P Panel thickness max. min. |                  | V min.           | W $\pm 0.13$ ( $\pm 0.005$ ) | Z $\pm 0.13$ ( $\pm 0.005$ ) | Z1 $\pm 0.13$ ( $\pm 0.005$ ) |
| 8          | 12.04<br>(0.474) | 4.75<br>(0.187)             | 1.57<br>(0.062)  | 25.15<br>(0.990) | 14.53<br>(0.572)             | 13.34<br>(0.525)             | 13.61<br>(0.536)              |
| 10         | 15.01<br>(0.591) | 4.75<br>(0.187)             | 1.57<br>(0.062)  | 28.32<br>(1.115) | 17.70<br>(0.697)             | 16.51<br>(0.650)             | 16.79<br>(0.661)              |
| 12         | 19.08<br>(0.751) | 4.75<br>(0.187)             | 1.57<br>(0.062)  | 33.15<br>(1.305) | 22.73<br>(0.895)             | 20.65<br>(0.813)             | 20.93<br>(0.824)              |
| 14         | 22.25<br>(0.876) | 4.75<br>(0.187)             | 1.57<br>(0.062)  | 36.32<br>(1.430) | 25.65<br>(1.010)             | 23.80<br>(0.937)             | 24.08<br>(0.948)              |
| 16         | 25.43<br>(1.001) | 4.75<br>(0.187)             | 1.57<br>(0.062)  | 39.88<br>(1.570) | 28.83<br>(1.135)             | 26.95<br>(1.061)             | 27.23<br>(1.072)              |
| 18         | 28.60<br>(1.126) | 4.75<br>(0.187)             | 1.57<br>(0.062)  | 43.69<br>(1.720) | 32.00<br>(1.260)             | 30.12<br>(1.186)             | 30.40<br>(1.197)              |
| 20         | 31.78<br>(1.251) | 6.35<br>(0.250)             | 1.57<br>(0.062)  | 47.37<br>(1.865) | 35.18<br>(1.385)             | 33.30<br>(1.311)             | 33.58<br>(1.322)              |
| 22         | 34.95<br>(1.376) | 6.35<br>(0.250)             | 1.57<br>(0.062)  | 50.93<br>(2.005) | 38.35<br>(1.510)             | 36.47<br>(1.436)             | 36.75<br>(1.447)              |
| 24         | 38.13<br>(1.501) | 6.35<br>(0.250)             | 1.57<br>(0.062)  | 54.61<br>(2.150) | 41.53<br>(1.635)             | 39.65<br>(1.561)             | 39.93<br>(1.572)              |



## Solder Mtg. Hermetic Seal Receptacle

**- 01H  
6021 H  
PAN 6432-1E**

| Shell Size | A max.           | C max. Dia.      | G max.          |                 | H max.          | M max. Dia.      | N max. Dia.      | V min.           | W Dia. $\pm 0.13$ ( $\pm 0.005$ ) |
|------------|------------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-----------------------------------|
|            |                  |                  | contact Size 20 | contact Size 16 |                 |                  |                  |                  |                                   |
| 8          | 20.35<br>(0.801) | 16.13<br>(0.635) | 4.52<br>(0.178) | 6.30<br>(0.248) | 3.96<br>(0.156) | 12.04<br>(0.474) | 14.30<br>(0.563) | 23.62<br>(0.930) | 14.48<br>(0.570)                  |
| 10         | 20.35<br>(0.801) | 19.30<br>(0.760) | 4.52<br>(0.178) | 6.30<br>(0.248) | 3.96<br>(0.156) | 15.01<br>(0.591) | 17.09<br>(0.673) | 26.80<br>(1.055) | 17.27<br>(0.680)                  |
| 12         | 20.35<br>(0.801) | 21.69<br>(0.854) | 4.52<br>(0.178) | 6.30<br>(0.248) | 3.96<br>(0.156) | 19.08<br>(0.751) | 19.86<br>(0.782) | 29.98<br>(1.180) | 20.04<br>(0.789)                  |
| 14         | 20.35<br>(0.801) | 24.87<br>(0.979) | 4.52<br>(0.178) | 8.30<br>(0.248) | 3.96<br>(0.156) | 22.25<br>(0.876) | 23.04<br>(0.907) | 33.15<br>(1.305) | 23.22<br>(0.914)                  |
| 16         | 20.35<br>(0.801) | 28.04<br>(1.104) | 4.52<br>(0.178) | 6.30<br>(0.248) | 3.96<br>(0.156) | 25.43<br>(1.001) | 26.21<br>(1.032) | 37.85<br>(1.490) | 26.39<br>(1.039)                  |
| 18         | 20.35<br>(0.801) | 31.19<br>(1.228) | 4.52<br>(0.178) | 6.30<br>(0.248) | 3.96<br>(0.156) | 28.60<br>(1.126) | 29.39<br>(1.157) | 40.64<br>(1.600) | 29.57<br>(1.164)                  |
| 20         | 21.92<br>(0.863) | 33.58<br>(1.322) | 4.52<br>(0.178) | 6.30<br>(0.248) | 3.96<br>(0.156) | 31.78<br>(1.251) | 31.78<br>(1.251) | 43.81<br>(1.725) | 31.95<br>(1.258)                  |
| 22         | 22.73<br>(0.895) | 36.78<br>(1.448) | 3.71<br>(0.146) | 5.49<br>(0.216) | 4.79<br>(0.188) | 34.95<br>(1.376) | 34.95<br>(1.376) | 46.61<br>(1.835) | 35.13<br>(1.383)                  |
| 24         | 22.73<br>(0.895) | 39.98<br>(1.574) | 3.71<br>(0.146) | 5.49<br>(0.216) | 4.78<br>(0.188) | 38.13<br>(1.501) | 38.13<br>(1.501) | 49.78<br>(1.960) | 38.30<br>(1.508)                  |

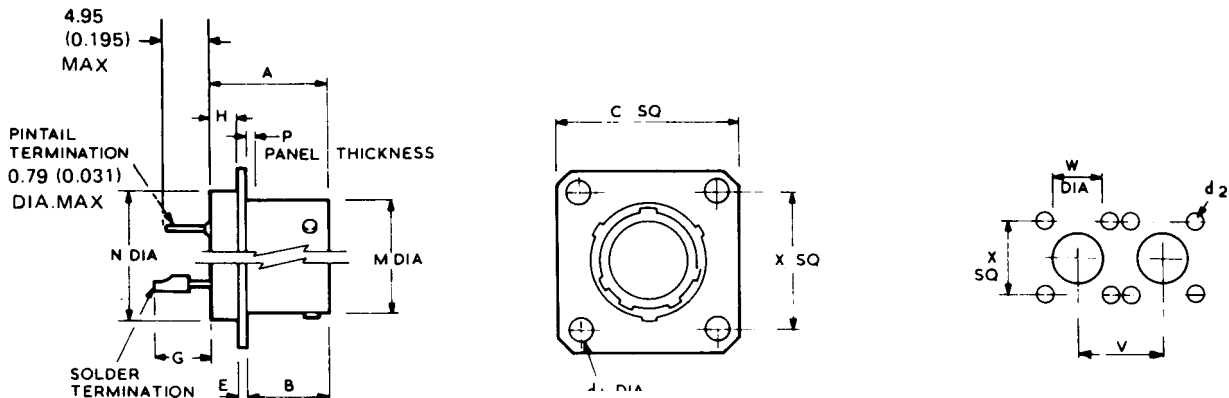


For pin tail termination contacts in hermetic connectors add deviation (345) to the Amphenol Part Number.

# AMPHENOL LIMITED

## Flange Mtg. Hermetic Seal Receptacle - 02H

### PAN 6432 - 1T



| Shell Size | A max.        | B $\pm 0.25$ ( $\pm 0.010$ ) | C Sq. max.    | d <sub>1</sub> Dia. $\pm 0.05$ ( $\pm 0.002$ ) | d <sub>2</sub> $\pm 0.13$ ( $\pm 0.005$ ) | E $\pm 0.41$ ( $\pm 0.016$ ) | 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 (0.120)                                   | 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)           |

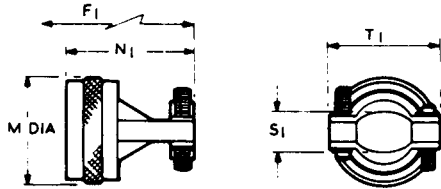
| Shell Size | H max.       | M Dia. max.   | N Dia. max.   | P max. Panel Thickness | V min         | W dia. $+0.13$ ( $+0.005$ ) | X sq. $+0.13$ ( $+0.005$ ) |
|------------|--------------|---------------|---------------|------------------------|---------------|-----------------------------|----------------------------|
| 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.

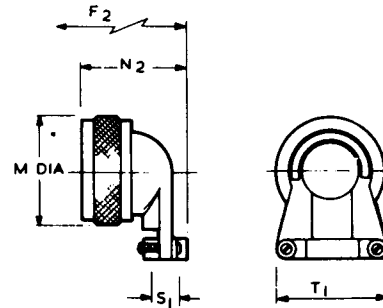
# AMPHENOL LIMITED

## Cable Accessories

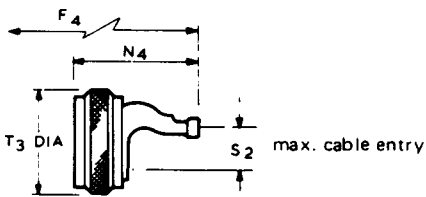
To ensure the best performance of the connector wire sealing grommet it is recommended that a Strain Relief Accessory should be fitted. See ordering information on pages 9 & 10.



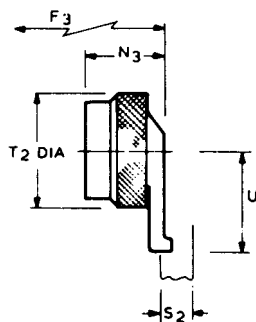
With Straight Strain Relief Saddle Clamp.  
For ordering as a separate item 602GB-198-XX replace XX by shell size required e.g. 602GB-198-18.



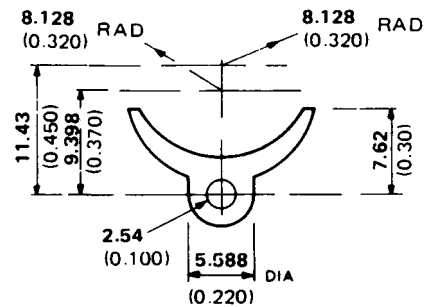
With 90° Strain Relief Saddle Clamp.  
For ordering as a separate item 602GB-199-XX replace XX by shell size required e.g. 602GB-199-18



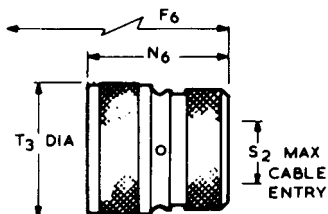
With Straight Strain Relief Clamp.  
For ordering as a separate item 602GB-129-XX or PAN 6432-1 D-XX replace XX by shell size required e.g. 602GB-129-08 or PAN 6432-1 D-08.



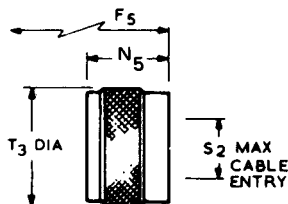
With 90° Strain Relief Clamp.  
For ordering as a separate item 602GB-133-XX or PAN 6432-1 K-XX replace XX by shell size required e.g. 602GB-133-08 or PAN 6432-1 K-OE.



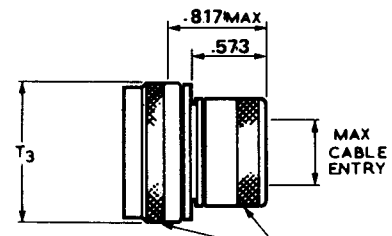
Spacer pad for Cable tie type strain relief clamps 602GB-141



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.

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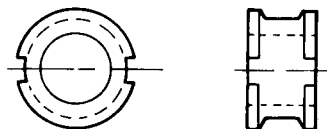
## Cable Accessories

### 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 <sub>1</sub> max. when fitted to |                  | F <sub>2</sub> max. when fitted to |                  | F <sub>3</sub> max. when fitted to |                  | F <sub>4</sub> max. when fitted to |                  | F <sub>5</sub> max. when fitted to |                  | F <sub>6</sub> max. when fitted to |                  | M dia max.       |
|------------|------------------------------------|------------------|------------------------------------|------------------|------------------------------------|------------------|------------------------------------|------------------|------------------------------------|------------------|------------------------------------|------------------|------------------|
|            | Plug                               | Recept.          | Plug                               | Recept.          | Plug                               | Recept.          | Plug                               | Recept.          | Plug                               | Recept.          | Plug                               | Recept.          |                  |
| 8          | 48.67<br>(1.916)                   | 48.29<br>(1.901) | 52.45<br>(2.065)                   | 52.07<br>(2.050) | 43.56<br>(1.715)                   | 43.18<br>(1.700) | 54.79<br>(2.157)                   | 54.33<br>(2.139) | 38.28<br>(1.507)                   | 37.90<br>(1.492) | 53.24<br>(2.092)                   | 52.76<br>(2.077) | 15.67<br>(0.617) |
| 10         | 51.46<br>(2.026)                   | 51.08<br>(2.011) | 54.53<br>(2.147)                   | 54.15<br>(2.132) | 43.56<br>(1.175)                   | 43.18<br>(1.700) | 54.79<br>(2.157)                   | 54.33<br>(2.139) | 38.28<br>(1.507)                   | 37.90<br>(1.492) | 53.24<br>(2.092)                   | 52.76<br>(2.077) | 18.64<br>(0.734) |
| 12         | 54.64<br>(2.151)                   | 54.25<br>(2.136) | 59.44<br>(2.340)                   | 59.05<br>(2.325) | 43.56<br>(1.175)                   | 43.18<br>(1.700) | 56.31<br>(2.217)                   | 55.85<br>(2.199) | 38.28<br>(1.507)                   | 37.90<br>(1.492) | 54.24<br>(2.092)                   | 52.76<br>(2.077) | 21.79<br>(0.858) |
| 14         | 54.64<br>(2.151)                   | 54.25<br>(2.136) | 60.96<br>(2.400)                   | 60.58<br>(2.385) | 43.56<br>(1.175)                   | 43.18<br>(1.700) | 60.63<br>(2.387)                   | 60.17<br>(2.369) | 38.28<br>(1.507)                   | 37.90<br>(1.492) | 54.24<br>(2.092)                   | 52.76<br>(2.077) | 24.99<br>(0.984) |
| 16         | 57.81<br>(2.270)                   | 57.43<br>(2.261) | 64.74<br>(2.549)                   | 64.36<br>(2.534) | 43.56<br>(1.175)                   | 43.18<br>(1.700) | 60.63<br>(2.387)                   | 60.17<br>(2.369) | 38.28<br>(1.507)                   | 37.90<br>(1.492) | 54.24<br>(2.092)                   | 52.76<br>(2.077) | 28.24<br>(1.112) |
| 18         | 64.16<br>(2.526)                   | 63.78<br>(2.511) | 67.59<br>(2.661)                   | 67.21<br>(2.646) | 44.20<br>(1.740)                   | 43.18<br>(1.700) | 62.66<br>(2.467)                   | 62.20<br>(2.449) | 38.28<br>(1.507)                   | 37.90<br>(1.492) | 54.24<br>(2.092)                   | 52.76<br>(2.077) | 30.94<br>(1.218) |
| 20         | 67.34<br>(2.651)                   | 68.48<br>(2.696) | 70.76<br>(2.786)                   | 71.91<br>(2.831) | 44.20<br>(1.740)                   | 45.34<br>(1.785) | 65.96<br>(2.597)                   | 67.03<br>(2.639) | 38.28<br>(1.507)                   | 39.42<br>(1.552) | 54.24<br>(2.092)                   | 52.76<br>(2.077) | 34.16<br>(1.345) |
| 22         | 70.51<br>(2.776)                   | 71.65<br>(2.821) | 73.94<br>(2.911)                   | 75.08<br>(2.956) | 44.20<br>(1.740)                   | 45.34<br>(1.785) | 69.01<br>(2.717)                   | 70.08<br>(2.759) | 38.28<br>(1.071)                   | 39.42<br>(1.552) | 54.24<br>(2.092)                   | 52.76<br>(2.077) | 37.29<br>(1.468) |
| 24         | 73.69<br>(2.901)                   | 74.83<br>(2.946) | 77.11<br>(3.036)                   | 78.26<br>(3.081) | 44.20<br>(1.740)                   | 45.34<br>(1.785) | 72.31<br>(2.847)                   | 73.38<br>(2.889) | 38.28<br>(1.507)                   | 39.42<br>(1.552) | 54.24<br>(2.092)                   | 52.76<br>(2.077) | 40.46<br>(1.593) |

| Shell Size | N <sub>1</sub> max. | N <sub>2</sub> max. | N <sub>3</sub> max. | N <sub>4</sub> max. | N <sub>5</sub> max. | N <sub>6</sub> Max. | S <sub>1</sub>   |                  | S <sub>2</sub> dia. max. | T <sub>1</sub> max. | T <sub>2</sub> dia. max. | T <sub>3</sub> dia. max. | U max.           |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------|------------------|--------------------------|---------------------|--------------------------|--------------------------|------------------|
|            |                     |                     |                     |                     |                     |                     | Open             | Closed           |                          |                     |                          |                          |                  |
| 8          | 24.18<br>(0.952)    | 27.97<br>(1.101)    | 19.08<br>(0.751)    | 30.23<br>(1.190)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 5.18<br>(0.204)  | 3.18<br>(0.125)  | 6.60<br>(0.260)          | 19.10<br>(0.752)    | 16.69<br>(0.657)         | 15.67<br>(0.617)         | 30.99<br>(1.220) |
| 10         | 26.97<br>(1.062)    | 30.05<br>(1.183)    | 19.08<br>(0.751)    | 30.23<br>(1.190)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 7.26<br>(0.286)  | 4.75<br>(0.187)  | 9.27<br>(0.365)          | 21.13<br>(0.832)    | 19.86<br>(0.782)         | 18.64<br>(0.734)         | 30.99<br>(1.220) |
| 12         | 30.15<br>(1.187)    | 34.95<br>(1.376)    | 19.08<br>(0.751)    | 31.75<br>(1.250)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 10.57<br>(0.416) | 7.39<br>(0.291)  | 12.73<br>(0.501)         | 25.10<br>(0.988)    | 23.80<br>(0.937)         | 21.79<br>(0.858)         | 41.15<br>(1.620) |
| 14         | 30.15<br>(1.187)    | 36.47<br>(1.436)    | 19.08<br>(0.751)    | 36.07<br>(1.420)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 12.09<br>(0.476) | 8.92<br>(0.351)  | 14.60<br>(0.575)         | 26.57<br>(1.046)    | 26.67<br>(1.050)         | 24.99<br>(0.984)         | 42.16<br>(1.660) |
| 16         | 33.32<br>(1.312)    | 40.26<br>(1.585)    | 19.08<br>(0.751)    | 36.07<br>(1.420)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 15.88<br>(0.625) | 12.73<br>(0.501) | 17.78<br>(0.700)         | 33.50<br>(1.319)    | 31.47<br>(1.239)         | 28.24<br>(1.112)         | 43.69<br>(1.720) |
| 18         | 39.67<br>(1.562)    | 43.10<br>(1.697)    | 19.71<br>(0.776)    | 38.10<br>(1.500)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 17.93<br>(0.706) | 13.16<br>(0.518) | 19.79<br>(0.779)         | 36.86<br>(1.451)    | 35.00<br>(1.378)         | 30.94<br>(1.218)         | 43.69<br>(1.720) |
| 20         | 42.85<br>(1.687)    | 46.28<br>(1.822)    | 19.71<br>(0.776)    | 41.40<br>(1.630)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 21.11<br>(0.831) | 14.76<br>(0.581) | 22.96<br>(0.904)         | 39.55<br>(1.557)    | 38.10<br>(1.500)         | 34.16<br>(1.345)         | 45.47<br>(1.790) |
| 22         | 46.02<br>(1.812)    | 49.45<br>(1.947)    | 19.71<br>(0.776)    | 44.45<br>(1.750)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 24.28<br>(0.956) | 16.36<br>(0.644) | 26.14<br>(1.029)         | 41.99<br>(1.653)    | 41.43<br>(1.631)         | 37.29<br>(1.468)         | 46.99<br>(1.850) |
| 24         | 49.20<br>(1.937)    | 52.83<br>(2.072)    | 19.71<br>(0.776)    | 47.75<br>(1.880)    | 13.72<br>(0.540)    | 28.58<br>(1.125)    | 27.46<br>(1.081) | 17.93<br>(0.706) | 29.06<br>(1.144)         | 45.08<br>(1.775)    | 44.45<br>(1.750)         | 40.46<br>(1.593)         | 48.51<br>(1.910) |