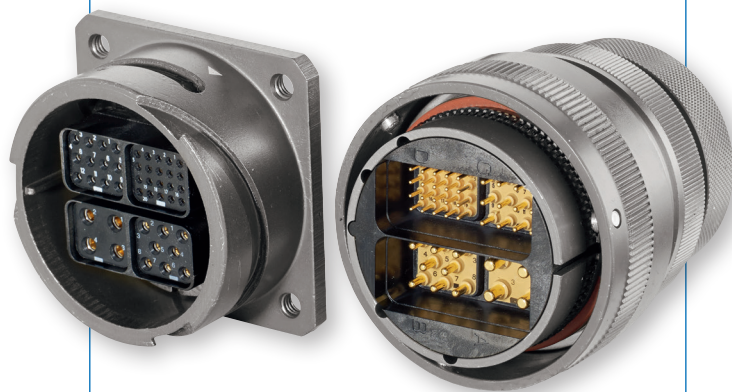


# Amphenol

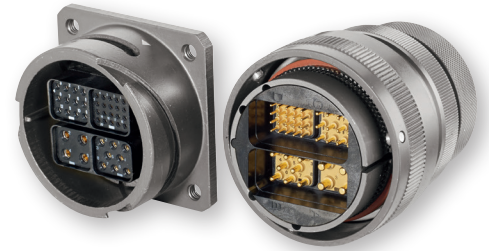
## GCB-M

Reverse Bayonet Modular



# GCB-M

These connectors with reverse bayonet coupling are compliant to the VG95234 standard. Offering a high liability, they are coevally waterproof and resistant to vibrations and wear. They use the same installation dimensions as connectors according to MIL-C-5015, however they are provided with reverse bayonet coupling and ondular washer, wish guarantee a fast and effortless locking/unlocking and avoid an unintentional unlatch due to heavy vibrations. Connectors are standardly delivered with grounding finger.



## Modules

The modules are made of thermoplastic and overmolded silicon elastomer.

The modules include a polarization system in addition, the modules meet the standards of EN4165 and VG96513. There are two types of modules:

- Pin modules for pin contacts **P**
- Socket modules for socket contacts **S**

Modules are inserted by rear of receptacles and plugs, can be manually inserted in the shell cavities, but have to be extracted with a specific tool.

## Contacts

**P** pin and **S** socket crimp contacts are complying with SAE-AS39029 and EN3155 standards (most popular contacts worldwide), and available from 23 to 8. Contacts are inserted through the rear elastomer surface. In the grommet are three elastic barriers ensuring excellent sealing onto the cable. On the mating side, sealing is ensured by the overmolded elastomer on the pin modules.

Material: Copper alloy

Plating: Gold over nickel

Contacts retention in insulator:

| # Contacts AWG | 23 | 22 | 20MIL | 20ASNE | 16  | 12  | 8   |
|----------------|----|----|-------|--------|-----|-----|-----|
| N              | 45 |    | 89    | 60     | 110 | 133 | 156 |

Insulation resistance:  $\geq$  to 5000 M $\Omega$

Max insulation resistance in altitude:  $\geq$  to 1000 M $\Omega$

| # Contacts AWG          | 23               | 22 | 20               | 16 | 12 | 8  | 8  |
|-------------------------|------------------|----|------------------|----|----|----|----|
| Withstanding voltage    | 1500V eff. 50 Hz |    | 1800V eff. 50 Hz |    |    |    |    |
| Max. Current Rating (A) | 5                |    | 7,5              | 13 | 23 | 46 | 80 |

## Mechanical properties

Operating temperature: -55°C +125°C continuously

Endurance: 500 full mating and unmating cycles

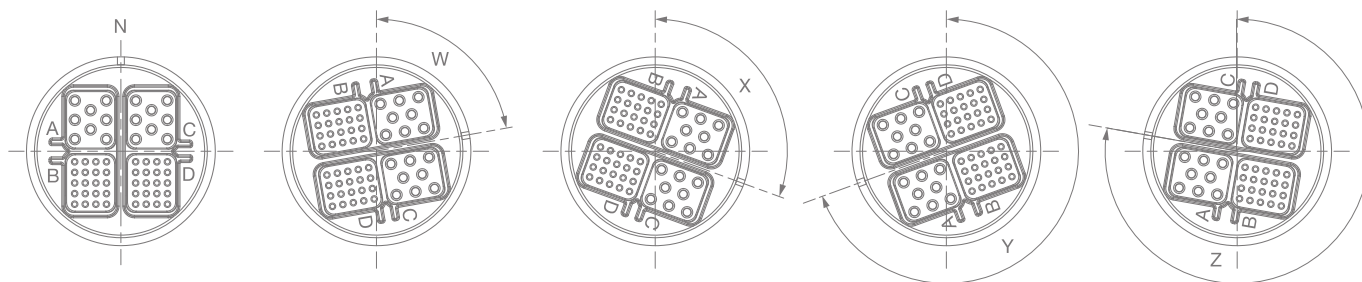
Vibrations: Sinusoidal and random frequency from 10 to 2000 Hz, acceleration 20 g

IP code: All backshells with grommet are IP 67 (only if all cavities are used). For connectors with PG- or metrical backshell, the IP code depends on the IP code of the adapter which will be used.

Protection: Contacts are scoop proofed

## Angular position of the contact insert

The angular positions W, X, Y and Z are used when polarisation is required for connectors of the same size and same number of poles. The following figures show the view on the front face of the pin insert or the termination face of the socket insert.



Angular position of the contact inserts in degrees

| N | W  | X  | Y   | Z   |
|---|----|----|-----|-----|
| 0 | 30 | 60 | 270 | 315 |

GCB

06

T

32-4M

N

– F1

**Series**

00 – Wall mount receptacle with backshell

01 – Cable connecting plug with backshell

02 – Box mounting receptacle (no backshell available)

06 – Plug, straight

08 – Plug, 90°

**Backshell**

E – With cable clamp and bushing

T – For heatshrink adapter

TG – For heatshrink and grounding finger

F – For flex tube

FG – For flex tube and grounding finger

M – For shielding braids and heatshrink

**Shell size – contact arrangement**

32-4M

**Angular insert position**

N; W; X; Y; Z

**Finish**

Ommit – Olive drap cadmium

|                |                                                  |
|----------------|--------------------------------------------------|
| RoHS compliant | F1 – Nickel                                      |
|                | F2 – Black zinc cobalt **                        |
|                | F3 – Green zinc cobalt **                        |
|                | F4 – Electrophoratic black non conductive **     |
|                | F5 – Black zinc nickel **                        |
|                | F6 – Marine bronze                               |
|                | F8 – Zinc-tin** (according to VG96955 Version J) |

**Modification\***

T1 – front panel mounting

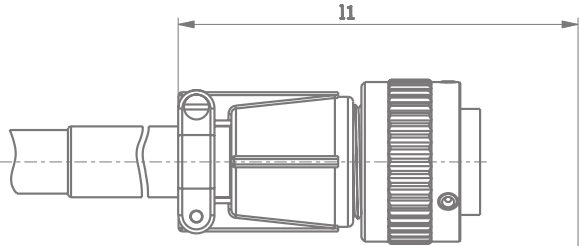
T2 – receptacle with 4 threaded holes

\* only for serie 02; 00

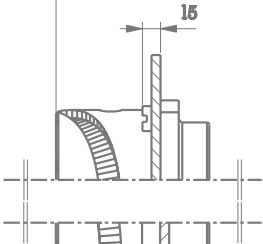
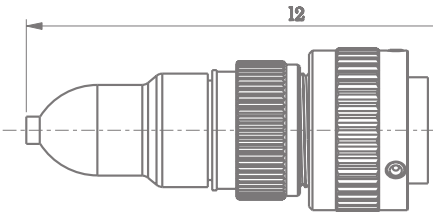
\*\* on request

**Modules for this connector must be ordered separately.**

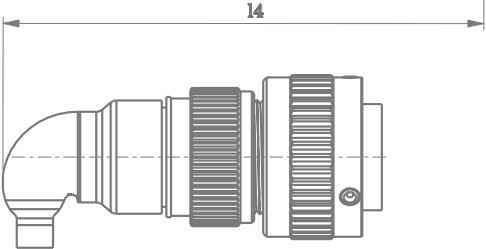
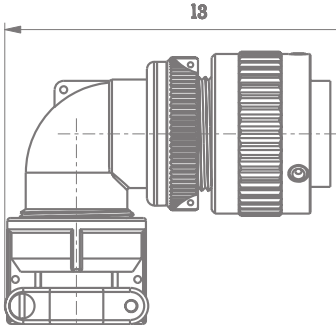
Connector type  
E



Connector type  
M, N, T

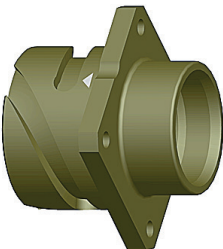
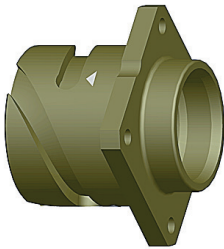
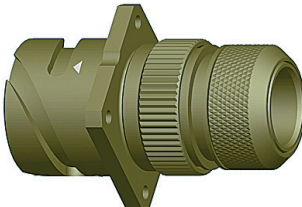
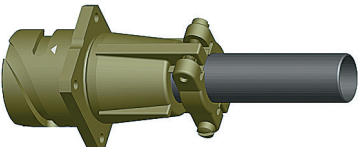
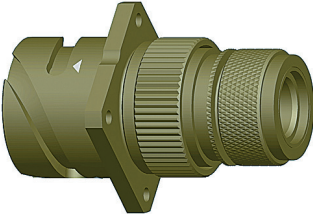
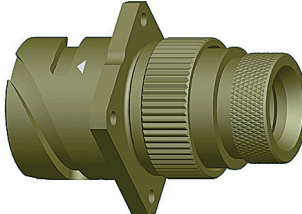
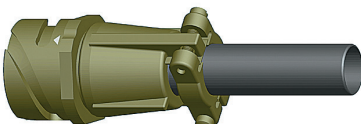
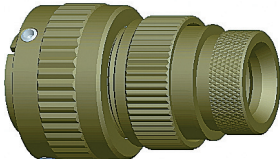
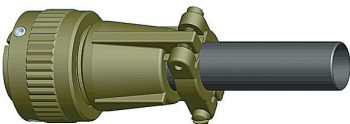
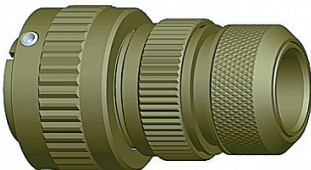
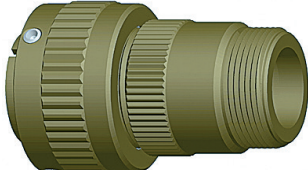
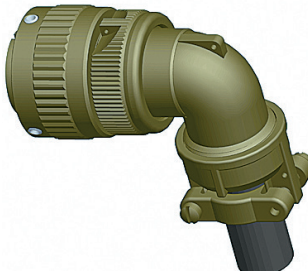


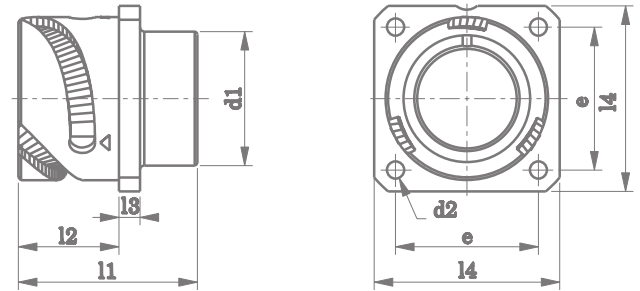
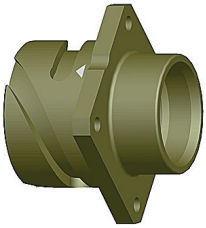
Connector type  
E, E1



Connector type  
M, N, T

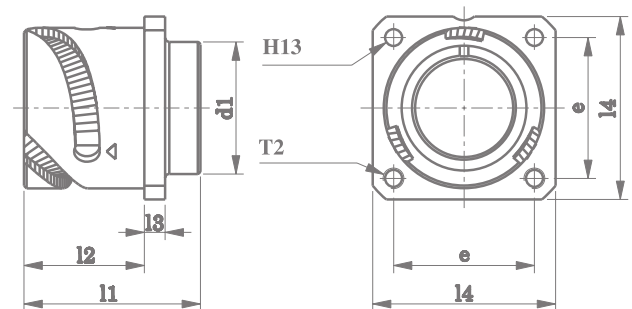
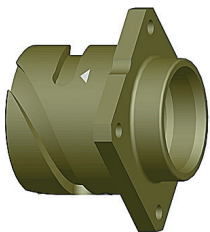
| Shell size | $l_1$<br>min. | $l_2$<br>min. | $l_3$<br>min. | $l_4$<br>min. | $l_5$<br>max. | $l_6$<br>max. |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 32         | 110           | 180           | 115           | 120           | 9             | 6             |

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| GCB02-32-4M-T1                                                                      | GCB02-32-4M-T2                                                                      | GCB00M32-4M-T2                                                                        |
|    |    |    |
| GCB00E32-4M-T2                                                                      | GCB00N32-4M-T2                                                                      | GCB00T32-4M-T2                                                                        |
|   |   |   |
| GCB01E32-4M                                                                         | GCB06TG32-4M                                                                        | GCB06E32-4M                                                                           |
|  |  |  |
| GCB06M32-4M                                                                         | GCB06FG32-4M                                                                        | GCB08E32-4M / GCB08E132-4M                                                            |
|  |  |  |



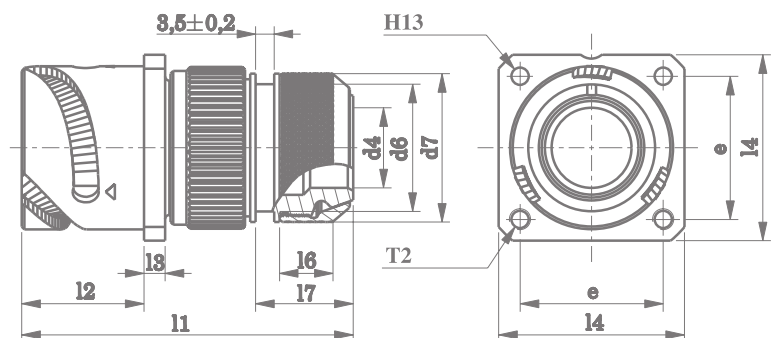
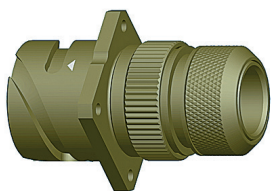
Fixed connector with mounting flange for front panel mounting

| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub><br>H13 | e<br>±0,1 | l <sub>1</sub><br>±0,3 | l <sub>2</sub><br>+0,4 | l <sub>3</sub><br>±0,2 | l <sub>4</sub><br>±0,3 | Mass<br>g max. |
|------------|------------------------|-----------------------|-----------|------------------------|------------------------|------------------------|------------------------|----------------|
| 32         | 47,8                   | 4,3                   | 44,5      | 33,8                   | 22,2                   | 4,0                    | 57,0                   | 64             |



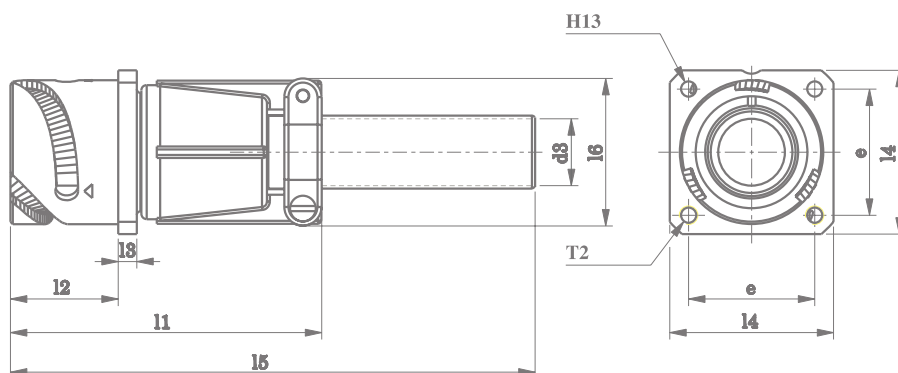
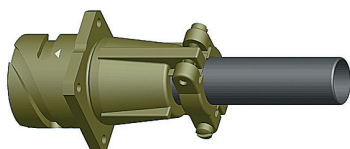
Fixed connector with mounting flange for back panel mounting. Form T2 with 4 threaded holes or with 4 entry holes.

| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub> |     | e<br>±0,1 | l <sub>1</sub><br>±0,3 | l <sub>2</sub><br>+0,4 | l <sub>3</sub><br>±0,2 | l <sub>4</sub><br>±0,3 | Mass<br>g max. |
|------------|------------------------|----------------|-----|-----------|------------------------|------------------------|------------------------|------------------------|----------------|
|            |                        | Form<br>T2     | H13 |           |                        |                        |                        |                        |                |
| 32         | 47,8                   | M5             | 4,3 | 44,5      | 33,8                   | 24,1                   | 4,0                    | 57,0                   | 72             |



Fixed connector with mounting flange and backshell for mounting of shielding braids by pressing with a nut and heat shrinkable endshells. Form T2 with 4 threaded holes or with 4 entry holes.

| Shell size | d <sub>2</sub> |     | d <sub>4</sub><br>max. | d <sub>6</sub><br>max. | d <sub>7</sub><br>+0,5 | e<br>±0,1 | l <sub>1</sub><br>max. | l <sub>2</sub><br>+0,4 | l <sub>3</sub><br>±0,2 | l <sub>4</sub><br>±0,3 | l <sub>6</sub><br>+2 | l <sub>7</sub><br>+1 | Mass<br>g max. |
|------------|----------------|-----|------------------------|------------------------|------------------------|-----------|------------------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------|
|            | Form<br>T2     | H13 |                        |                        |                        |           |                        |                        |                        |                        |                      |                      |                |
| 32         | M5             | 4,3 | 33,3                   | 44,0                   | 48,0                   | 44,5      | 75,0                   | 24,1                   | 4,0                    | 57,0                   | 10,0                 | 18,0                 |                |

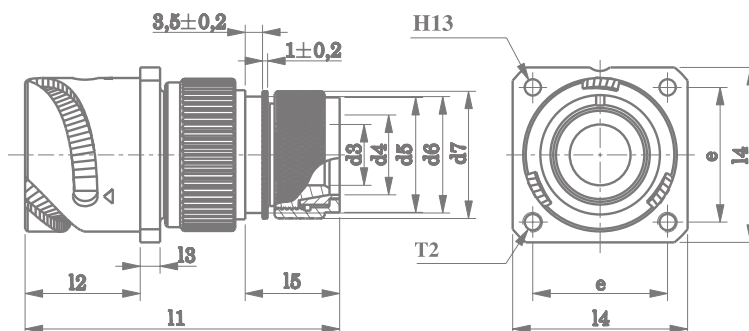
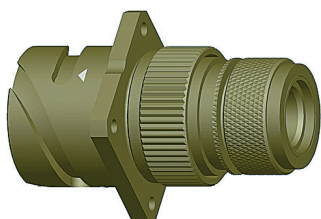


Fixed connector, with mounting flange, cable clamp and bushing. Form T2 with 4 threaded holes or with 4 entry holes.

| Shell size | d <sub>2</sub> |     | d <sub>3</sub><br>max. | e<br>±0,1 | l <sub>1</sub><br>max. | l <sub>2</sub><br>+0,4 | l <sub>3</sub><br>±0,2 | l <sub>4</sub><br>±0,3 | l <sub>5</sub><br>max. | l <sub>6</sub><br>max. | Mass<br>g max. |
|------------|----------------|-----|------------------------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
|            | Form<br>T2     | H13 |                        |           |                        |                        |                        |                        |                        |                        |                |
| 32         | M5             | 4,3 | 26,7                   | 44,5      | 85,0                   | 24,1                   | 4,0                    | 57,0                   | 125,0                  | 55,0                   | 205            |

## GCB00N32-4M-T2

## Receptacle mounting flange, shielding braids and heat shrink

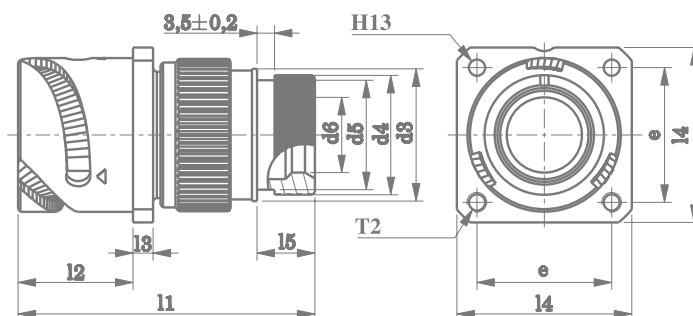
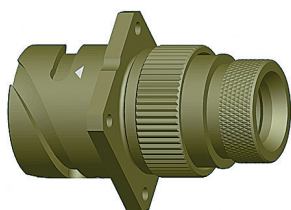


Fixed connector with mounting flange and backshell for mounting of shielding braids by pressing with a nut and for heat shrinkable endshells. Form T2 with 4 threaded holes or with 4 entry holes

| Shell size | d <sub>2</sub> |     | d <sub>3</sub><br>±0,2 | d <sub>4</sub><br>+0,4 | d <sub>5</sub> | d <sub>6</sub><br>±0,3 | d <sub>7</sub><br>±0,3 | e<br>±0,1 | l <sub>1</sub><br>max. | l <sub>2</sub><br>+0,4 | l <sub>3</sub><br>±0,2 | l <sub>4</sub><br>±0,3 | l <sub>5</sub><br>max. | Mass<br>g max. |
|------------|----------------|-----|------------------------|------------------------|----------------|------------------------|------------------------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
|            | Form<br>T2     | H13 |                        |                        |                |                        |                        |           |                        |                        |                        |                        |                        |                |
| 32         | M5             | 4,3 | 21,0                   | 26,5                   | M35x1          | 37,5                   | 41,5                   | 44,5      | 81,0                   | 24,1                   | 4,0                    | 57,0                   | 26,0                   | 195            |

## GCB00T32-4M-T2

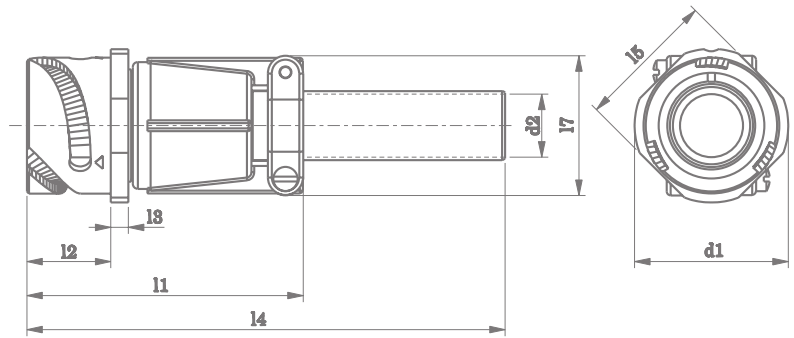
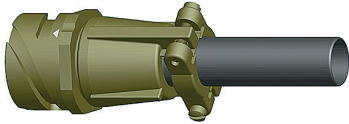
## Receptacle mounting flange, heat shrink



Fixed connector with mounting flange and backshell for heat shrinkable endshells. Form T2 with 4 threaded holes or with 4 entry holes.

| Shell size | d <sub>2</sub> |     | d <sub>3</sub><br>+0,2 | d <sub>4</sub><br>+0,2 | d <sub>5</sub><br>max. | d <sub>6</sub><br>min. | e<br>±0,1 | l <sub>1</sub><br>max. | l <sub>2</sub><br>+0,4 | l <sub>3</sub><br>±0,2 | l <sub>4</sub><br>±0,3 | l <sub>5</sub><br>±0,5 | Mass<br>g max. |
|------------|----------------|-----|------------------------|------------------------|------------------------|------------------------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
|            | Form<br>T2     | H13 |                        |                        |                        |                        |           |                        |                        |                        |                        |                        |                |
| 32         | M5             | 4,3 | 48,6                   | 47,8                   | 43,6                   | 33,3                   | 44,5      | 75,0                   | 24,1                   | 4,0                    | 57,0                   | 15,2                   | 188            |



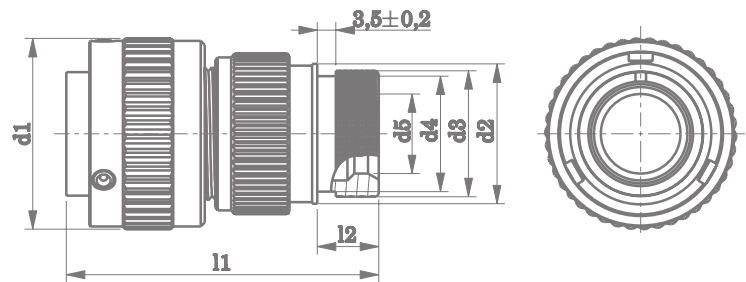
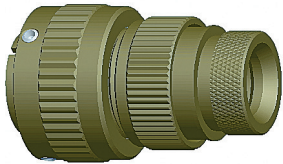


Inline receptacle, straight type, backshell with cable clamp and bushing.

| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub> <sup>(2)</sup><br>max. | l <sub>1</sub><br>max. | l <sub>2</sub><br>+0,4 | l <sub>3</sub><br>±0,2 | l <sub>4</sub><br>max. | l <sub>5</sub><br>±0,2 | l <sub>7</sub><br>max. | Mass<br>g max. |
|------------|------------------------|---------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
| 32         | 57,1                   | 26,7                                  | 85,0                   | 22,2                   | 4,0                    | 125,0                  | 54,0                   | 55,0                   | 205            |

## GCB06TG32-4M

Plug, heat shrink / with grounding finger

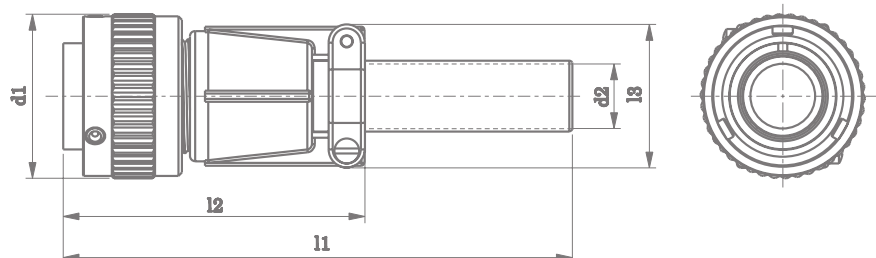
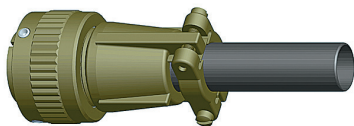


TG – Free connector, straight type with grounding fingers and backshell for heat shrinkable endshells.

| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub><br>±0,2 | d <sub>3</sub><br>±0,2 | d <sub>4</sub><br>max. | d <sub>5</sub><br>min. | l <sub>1</sub><br>max. | l <sub>2</sub><br>±0,5 | Mass<br>g max. |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
| 32         | 60,1                   | 48,6                   | 47,8                   | 43,6                   | 33,3                   | 70,0                   | 15,2                   |                |

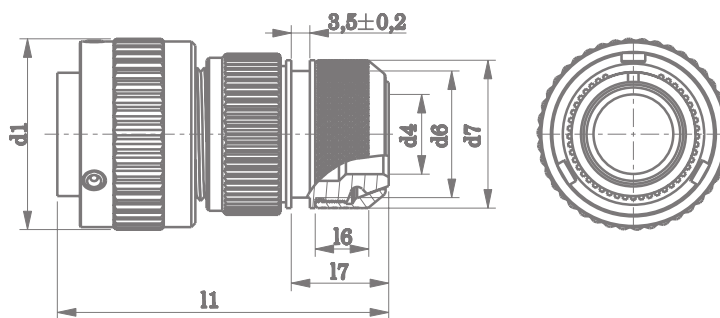
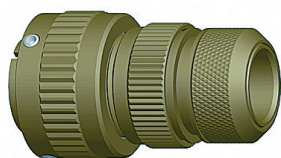
## GCB06E32-4M

Plug, cable clamp and bushing



Free connector, straight type, backshell with cable clamp and bushing.

| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub><br>max. | l <sub>1</sub><br>max. | l <sub>2</sub><br>max. | l <sub>3</sub><br>max. | Mass<br>g max. |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------|
| 32         | 60,1                   | 26,7                   | 120,0                  | 90,0                   | 55,0                   | 199            |

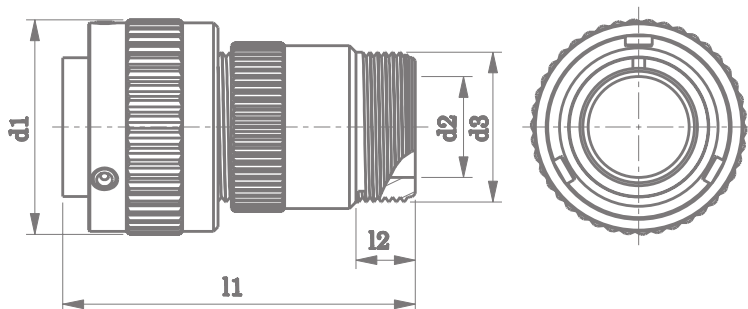
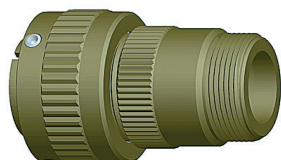


Free connector, straight type with grounding fingers and backshell for shielding and heat shrinkable endshells.

| Shell size | d <sub>1</sub><br>max. | d <sub>4</sub><br>min. | d <sub>6</sub><br>max. | d <sub>7</sub><br>±0,5 | l <sub>1</sub><br>max. | l <sub>6</sub><br>+2 | l <sub>7</sub><br>+1 | Mass<br>g max. |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------|
| 32         | 60,1                   | 33,3                   | 44,0                   | 48,0                   | 70,0                   | 10,0                 | 18,0                 | 170            |

## GCB06FG32-4M

Plug, conduit termination / with grounding finger

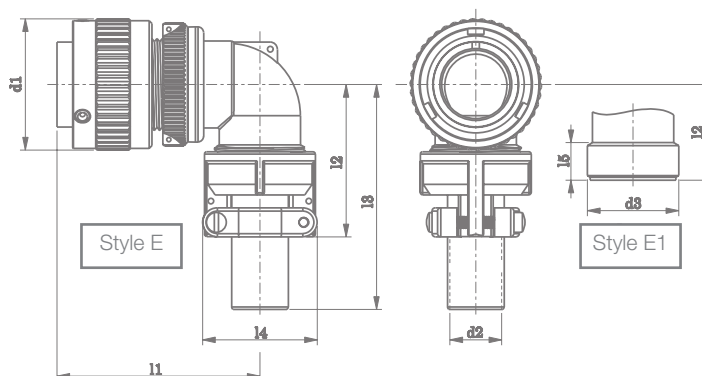
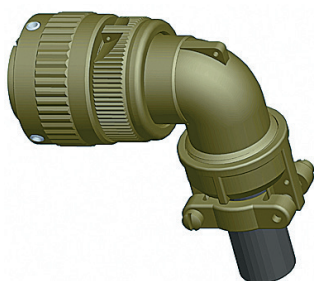


FG – Free connector, straight type with grounding fingers and backshell for conduit termination.

| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub><br>min. | d <sub>3</sub><br>Class 2A | l <sub>1</sub><br>max. | l <sub>2</sub><br>max. | Mass<br>g max. |
|------------|------------------------|------------------------|----------------------------|------------------------|------------------------|----------------|
| 32         | 60,1                   | 32,5                   | 1 3/4-18UNS                | 79                     | 26                     | 175            |

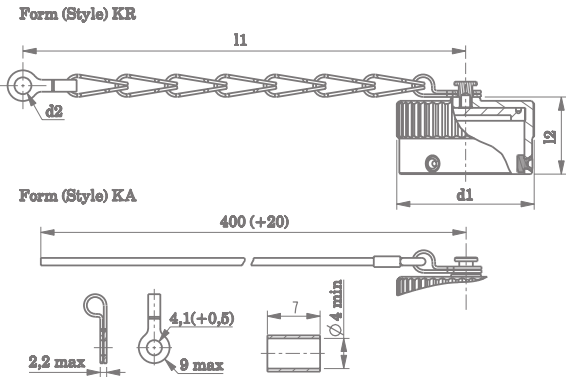
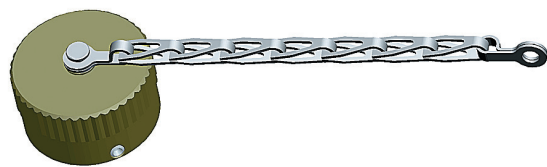
## GCB08E32-4M / GCB08E132-4M

Plug 90°, cable clamp with bushing

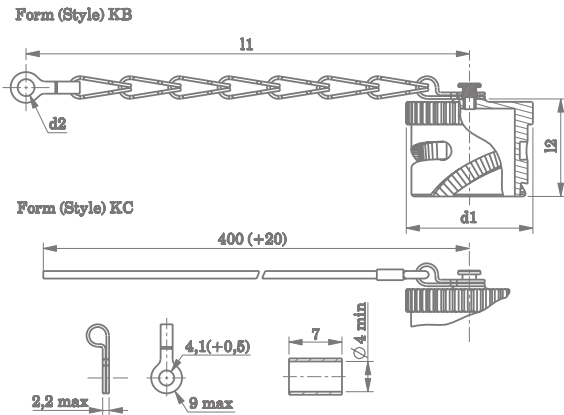


Free connector, angular type.  
Style E with cable clamp and bushing or style E1 for conduit termination, without cable clamp.

| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub><br>max. | d <sub>3</sub><br>Class 2A | l <sub>1</sub><br>max. | l <sub>2</sub> max. |    | l <sub>3</sub><br>max. | l <sub>4</sub><br>max. | l <sub>5</sub><br>min. | Mass<br>g max. |     |
|------------|------------------------|------------------------|----------------------------|------------------------|---------------------|----|------------------------|------------------------|------------------------|----------------|-----|
|            |                        |                        |                            |                        | E                   | E1 |                        |                        |                        | E              | E1  |
| 32         | 60,1                   | 26,7                   | 1 3/4-18UNS                | 72                     | 66                  | 45 | 110                    | 55                     | 11                     | 245            | 160 |



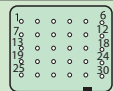
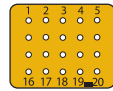
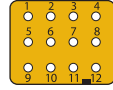
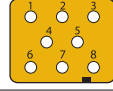
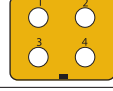
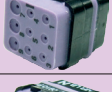
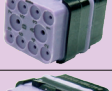
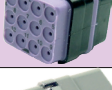
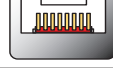
| Shell size | d <sub>1</sub><br>max. | d <sub>2</sub><br>+0,6 | l <sub>1</sub><br>max. | l <sub>2</sub><br>max. | Mass<br>g max. |
|------------|------------------------|------------------------|------------------------|------------------------|----------------|
| 32         | 61,0                   | 5,5                    | 160                    | 25                     | 48             |



| Shell size | d <sub>1</sub><br>Class 2B | d <sub>2</sub><br>max. | d <sub>3</sub><br>+0,6 | l <sub>1</sub><br>max. | l <sub>2</sub><br>max. |
|------------|----------------------------|------------------------|------------------------|------------------------|------------------------|
| 32         | 2 -18UNS                   | 56,3                   | 5,5                    | 160                    | 12,7                   |

## Caption

|                                                                                   |                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------|
|  | Green module = High contact density           |
|  | Purple modules are designed for ASNE contacts |

| <i>Pin rear view</i>                                                                | <i>Pin front view</i>                                                               | <i>Layout</i>                                                    | <i>Pin module</i>                    | <i>Socket module</i>                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|--------------------------------------|
|    |    | Rigid protective cap                                             | SIM 201                              |                                      |
|    |    | 30 contacts size 23                                              | SIM Q 3023 P Q                       | SIM Q 3023 S Q                       |
|    |    | 20 contacts size 22                                              | SIM Q 2022 P Q                       | SIM Q 2022 S Q                       |
|    |    | 12 contacts size 20                                              | SIM Q 1220 P Q                       | SIM Q 1220 S Q                       |
|    |    | 8 contacts size 16                                               | SIM Q 0816 P Q                       | SIM Q 0816 S Q                       |
|   |   | 4 contacts size 12                                               | SIM Q 0412 P Q                       | SIM Q 0412 S Q                       |
|  |  | 1 contact size 8                                                 | SIM Q 0108 P Q                       | SIM Q 0108 S Q                       |
|  |  | 1 quadrax contact anti-rotate on polarizer side                  | SIM Q 0118 P Q                       | SIM Q 0118 S Q                       |
|  |  | 1 quadrax contact anti-rotate on polarizer opposite side         | SIM Q 0128 P Q                       | SIM Q 0128 S Q                       |
|  |  | 5 contacts size 22 & 6 contacts size 16                          | SIM Q 9901 P Q                       | SIM Q 9901 S Q                       |
|  |  | 6 contacts size 22 & 3 contacts size 20                          | SIM Q 0936 P Q                       | SIM Q 0936 S Q                       |
|  |  | 8 contacts size 20 & 2 contacts size 16                          | SIM Q 0910 P Q                       | SIM Q 0910 S Q                       |
|  |  | 12 contacts size 20                                              | SIM Q 0912 P Q                       | SIM Q 0912 S Q                       |
|  |  | SIM RJ45 Ethernet:<br><i>Metallized</i><br><i>Not metallized</i> | SIM M D 0145 P N<br>SIM M N 0145 P N | SIM M D 0145 S N<br>SIM M N 0145 S N |
|  |  | Sealing module                                                   | SIM Q L0000 P N                      | /                                    |

Seal for  
peripheral sealing

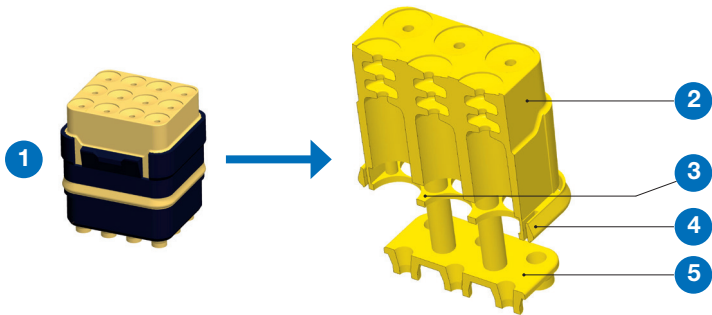


Without  
peripheral sealing



Peripheral sealing  
E: Sealed  
M: Not Sealed

Amphenol-Air LB SIM design a broad rang of overmolded modules to optimize the sealing (with or without peripheral sealing) and improve the withstanding voltage.



Modules are designed to use contacts to crimp, according to the SAE-AS39029 and EN3155 standards.

Modules polarization is available thanks to a specific design using slot inside each cavity of the connectors (see white frame on pictures):

Caption:  
1 – Module  
2 – Grommet  
3 – Intercavity seal  
4 – Peripheral seal  
5 – Interfacial seal

| A module polarization | B module polarization | C module polarization | D module polarization | N «neutral» module polarization |
|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------------|
|                       |                       |                       |                       |                                 |

Modules for straight or angled PCB contacts are also available.

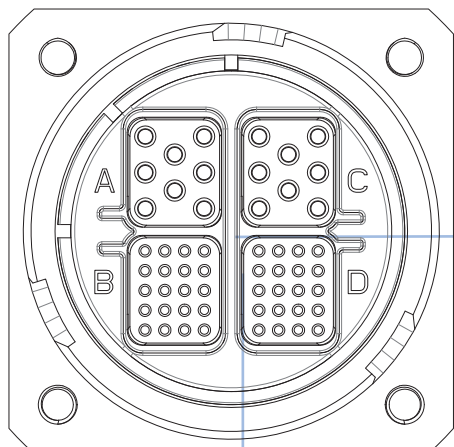
Amphenol-Air LB has designed 3 versions of specific modules for fiber optic termini, modules for high density (size 23) and modules for RJ45 Ethernet insert.

Part Number System

|                                          |     |   |      |   |   |
|------------------------------------------|-----|---|------|---|---|
|                                          | SIM | M | 0412 | P | N |
| <b>Sealing</b>                           |     |   |      |   |   |
| M – without peripheral sealing           |     |   |      |   |   |
| E – with peripheral sealing              |     |   |      |   |   |
| <b>Contact layout</b>                    |     |   |      |   |   |
| (see page 10)                            |     |   |      |   |   |
| <b>Contacts</b>                          |     |   |      |   |   |
| P – Pin                                  |     |   |      |   |   |
| S – Socket                               |     |   |      |   |   |
| <b>Polarization</b>                      |     |   |      |   |   |
| N; A; B; C; D                            |     |   |      |   |   |
| <b>Options (contacts see page 14/15)</b> |     |   |      |   |   |
| no suffix – without contacts             |     |   |      |   |   |
| C – with crimp contacts                  |     |   |      |   |   |

other P/N please contact us

Electrical system is printed on the grommet.  
These modules are only available in male version.



| Male module | Drawing | Layout                                                          | Peripheral sealing |
|-------------|---------|-----------------------------------------------------------------|--------------------|
|             |         | 20 contacts<br>size 22 [5x4]<br>shunted contacts                | SIM EZ 2022 P Q    |
|             |         | 20 contacts<br>size 22<br>[3 x 4] + [4 x 2]<br>shunted contacts | SIM EZ 2A22 P Q    |
|             |         | 20 contacts<br>size 22 [10x2]<br>shunted contacts               | SIM EZ 2B22 P Q    |
|             |         | 8 contacts size 16<br>[1 x 3] + [1 x 2]<br>shunted contacts     | SIM EZ 0816 P Q    |



Male module



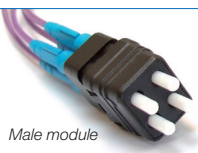
Female module

### Luxcis® and Amphelux® (ARINC 801)

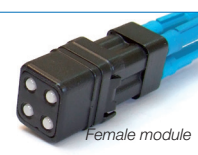
Module standard: ENxxxx in progress  
Contact standard: EN4639-10x

| Amphelux® and Luxcis® modules                    |                  |
|--------------------------------------------------|------------------|
| Male                                             | Female           |
| SIM Q O 06LU P Q                                 | SIM Q O 06LU S Q |
| Peripheral sealing<br>E: Sealed<br>M: Not Sealed |                  |
| Polarization                                     |                  |

| Technical Data   | Multimode (PC)                  | Singlemode (UPC) | Singlemode (APC) |
|------------------|---------------------------------|------------------|------------------|
| IL               | 0,10 dB typical                 | 0,15 dB typical  | 0,20 dB typical  |
| IL deviation     | 0,07 dB                         | 0,10 dB          | 0,12 dB          |
| RL               | > 20 dB                         | > 50 dB          | > 60 dB          |
| VRT              | -65 to +125°C                   |                  |                  |
| Module endurance | 500 full mating/unmating cycles |                  | /                |



Male module



Female module

### Elio® and Lumière

Module standard: EN4701

Contact standard: EN4531-101

Contacts are inserted / extracted by quarter-turn thanks to a specific tool – PN: 006101 009 00.

| Elio® modules    |                  |
|------------------|------------------|
| Male             | Female           |
| SIM Q O 04EL P Q | SIM Q O 04EL S Q |
| Polarization     |                  |

| Technical Data   | Multimode (PC)                  |
|------------------|---------------------------------|
| IL               | 0,30 dB                         |
| IL deviation     | 0,20 dB                         |
| RL               | > 30 dB                         |
| VRT              | -65 to +125°C                   |
| Module endurance | 500 full mating/unmating cycles |

Male module  
(with interfacial sealing)Female module  
(without interfacial sealing)

### Module for MPO/MTP connector

Module standard: IEC61754-7

| SIM module for MPO® connector              |  |
|--------------------------------------------|--|
| SIM Q O MPO Q Q                            |  |
| Type<br>P: Male module<br>S: Female module |  |
| Polarization                               |  |

| Technical Data         | Multimode       | Singlemode      |
|------------------------|-----------------|-----------------|
| Number of optical ways | 12              | 8               |
| IL                     | 0,20 dB typical | 0,25 dB typical |
| IL deviation           | 0,40 dB         | 0,50 dB         |
| RL                     | > 20 dB         | > 60 dB         |
| VRT                    | -65 to +125°C   |                 |

## Extraction of Modules

P/N: 006101 000 00



## Insertion of Modules \*

P/N: 006101 006 00



\* Recommended for modules with peripheral sealing.

## Extraction of RJ45 and Luxcis® Modules

P/N: 006101 008 00



# Tools for contacts

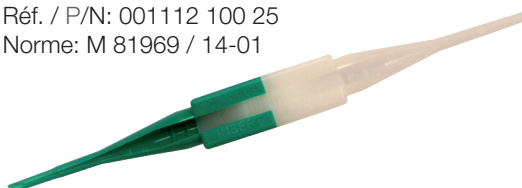
## Insertion / extraction tool for contact size 23

Réf. / P/N: 001112 010 25



## Insertion / extraction tool for contact size 22

Réf. / P/N: 001112 100 25  
Norme: M 81969 / 14-01



## Insertion / extraction tool for contact size 20

Réf. / P/N: 001112 250 25  
Norme: M 81969 / 14-10



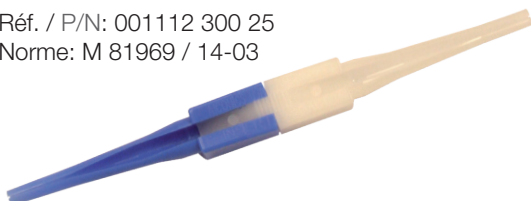
## Insertion / extraction tool for contact size 20 (purple modules)

Réf. / P/N: 001112 210 25  
Norme: M 81969 / 39-01



## Insertion / extraction tool for contact size 16

Réf. / P/N: 001112 300 25  
Norme: M 81969 / 14-03



## Insertion / extraction tool for contact size 12

Réf. / P/N: 001112 400 25  
Norme: M 81969 / 14-04



## Extraction tool for contact size 8, Quadrax, Twinax, Triax

Réf. / P/N: 001112 700 25  
Norme: M 81969 / 14-06



## Insertion / extraction of Elio® contacts

Réf. / P/N: 006101 009 00





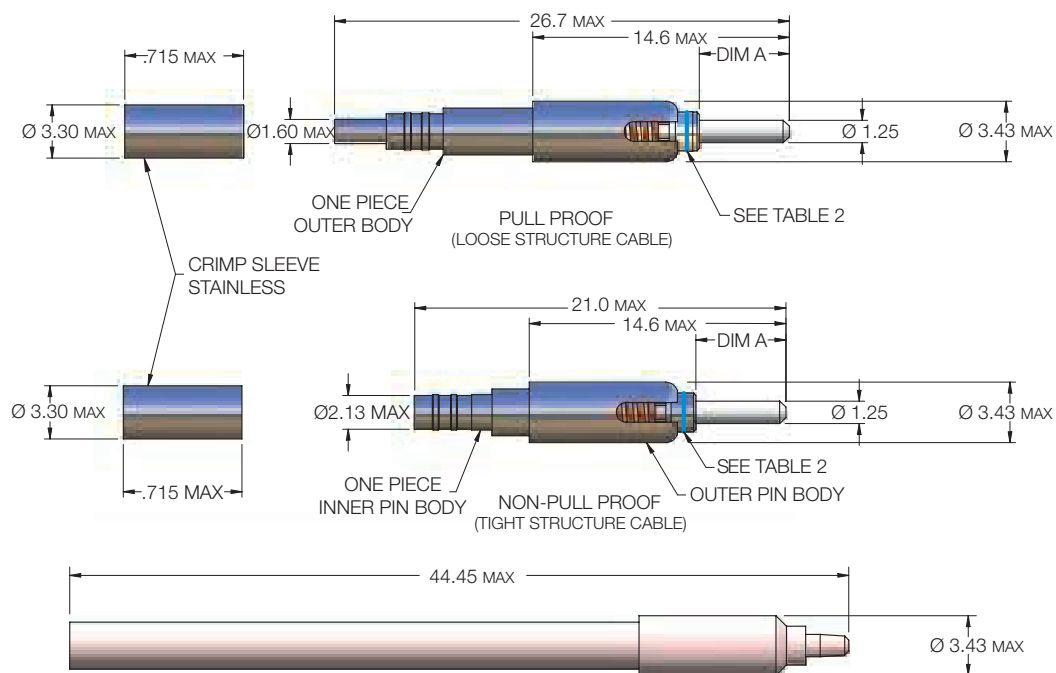


Table 1 – ARINC Termini Product Numbers

|                | UPC                 | APC        | MM127     | MM140     | MM230     |
|----------------|---------------------|------------|-----------|-----------|-----------|
| Pull proof     | M801-SU2P           | M801-SA2P  | M801-MS1P | M801-MS3P | M801-MS8P |
| Non Pull proof | M801-SU2N           | M801-SA2NP | M801-MS1N | M801-MS3N | M801-MS8N |
| DIM A          | 4.93                | 5.03       | 4.93      | 4.93      | 4.93      |
| Ferrule I.D.   | .1255+.0005/-0.0000 |            | 127+1/-0  | 140+2/-0  | 230+2/-0  |

Table 2 – Color Designation

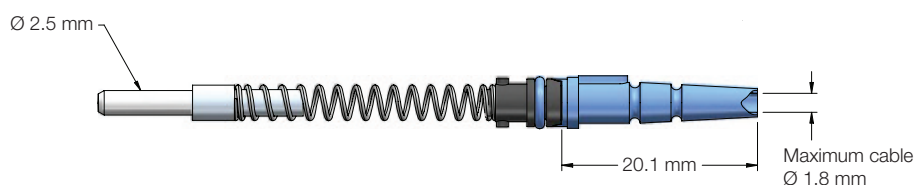
|            |            |
|------------|------------|
| MM =       | No Line    |
| SM (PC) =  | Blue Line  |
| SM (APC) = | Green Line |

## Lumiére Termini



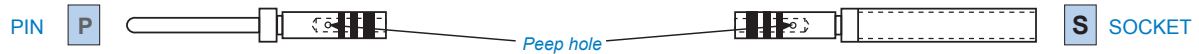
AOT 4531-1 &amp; AOT 4531-3

| Table 1 – Color Designation |            |            |
|-----------------------------|------------|------------|
| AOT 4531-1                  | Short boot | Sealed     |
| AOT 4531-2                  | Long boot  | Sealed     |
| AOT 4531-3                  | Short boot | Not Sealed |
| AOT 4531-4                  | Long boot  | Not Sealed |



AOT 4531-2 &amp; AOT 4531-4





| CONTACTS      |                         |                              |               |                             | CABLE                                          |                 |                                                                | CRIMPING TOOLING                                     |                                                                  | INSERTION<br>EXTRACTION<br>TOOLS                |
|---------------|-------------------------|------------------------------|---------------|-----------------------------|------------------------------------------------|-----------------|----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|
| EN 3155 spec. | Others spec.            | P/N                          | Type          | Size                        | AWG                                            | Sections<br>mm² | Sheath dia.<br>mm <i>(inch)</i>                                | Crimping tool                                        | Locator                                                          |                                                 |
| IN PROGRESS   | BACC47HB1               | 001704 001 02                | S             | 23                          | 26-24-22                                       | 0,38 - 0,14     | 0,71 - 1,20<br><i>(.028 - .047)</i>                            | M22520/2-01                                          | K1461 (Daniels)                                                  | 001112 010 25                                   |
|               | BACC47HA1               | 001714 001 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 57-354 | 001704 100 02                | S             | 22                          | 26-24-22                                       | 0,38 - 0,14     | 0,71 - 1,37<br><i>(.028 - .054)</i>                            | M 22520/2-01<br>M 22520/7-01                         | M 22520/2-06<br>M 22520/7-06<br><br>M 22520/2-09<br>M 22520/7-07 | M 81969 / 14-01<br>001112 100 25                |
| 003 F 2222    | /                       | 001704 100 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 58-360 | 001714 100 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 008 M 2222    | /                       | 001714 100 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 57-357 | 001704 203 02                | S             | 20                          | 24-22-20                                       | 0,21 - 0,60     | 1,01 - 2,10<br><i>(.039 - .082)</i>                            | M 22520/1-01<br>M 22520/2-01<br>M 22520/7-01         | M 22520/1-04<br>M 22520/2-10<br>M 22520/7-08                     | M 81969 / 14-10<br>001112 250 25                |
| 003 F 2020    | /                       | 001704 203 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 58-363 | 001714 203 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 008 M 2020    | /                       | 001714 203 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 57-358 | 001704 301 02                | S             | 16                          | 20-18-16                                       | 0,30 - 1,34     | 1,31 - 2,62<br><i>(.051 - .103 )</i>                           | M 22520/1-01<br>M 22520/7-01                         | M 22520/1-04<br>M 22520/7-04                                     | M 81969/14-03<br>001112 300 25                  |
| 003 F 1616    | /                       | 001704 301 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 58-364 | 001714 301 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 008 M 1616    | /                       | 001714 301 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 57-359 | 001704 400 02                | S             | 12                          | 14-12                                          | 1,91 - 3,18     | 1,93 - 3,70<br><i>(.074 - .145)</i>                            | M22520/1-01                                          | M22520/1-04                                                      | M 81969/14-04<br>001112 400 25                  |
| 003 F 1212    | /                       | 001704 400 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 58-365 | 001714 400 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 008 M 1212    | /                       | 001714 400 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 78-432 | 001704 500 02                | S             | micro<br>coax<br>16         | MIL 17/113<br>KX 22<br>RG 316                  |                 | int : M 22520/2-01<br>ext : M 22520/4-01                       | int : M 22520/2-35<br>ext : M 22520/4-02             | M 81969 / 14-03<br>001112 300 25                                 |                                                 |
|               |                         | SAE-AS39029<br>/ 76-424      | 001714 500 02 |                             |                                                |                 |                                                                |                                                      |                                                                  | P                                               |
| 066 F 0808 A  | /                       | 001704 700 02                | S             | 8 <sup>(1)</sup>            | 10-8                                           | 5,3 - 8,98      | 3,8 - 5,15<br><i>(.149 - .202)</i>                             | M300 BT                                              | SP593                                                            | Extract. only<br>M 81969/14-06<br>001112 700 25 |
| 065 M 0808 A  |                         | 001714 700 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 013 F 08      | SAE-AS39029<br>/ 91-530 | 001704 701 02                | S             | 8<br>twinax<br>concentric   | M17/176-00002                                  |                 | ctr : M 22520/2-01<br>int : M 22520/5-01<br>ext : M 22520/5-01 | ctr : K709<br>int : Y631-mors B<br>ext : Y631-mors A |                                                                  |                                                 |
| 012 M 08      | SAE-AS39029<br>/ 90-529 | 001714 701 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | /                       | 001704 709 02                | S             | 8<br>twinax<br>differential | TENSOLITE 24463/9PO25X-2 (LT)<br>or equivalent |                 | int : M 22520/2-01<br>ext : M 22520/5-01                       | int : K709<br>ext : M 22520/5-45                     |                                                                  |                                                 |
|               |                         | 001714 709 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 073 F 08      | ABS 0974 F 08A          | 001704 711 02 <sup>(2)</sup> | S             | 8<br>quadrax                | ABS 0972-KB24<br>ABS 1503-KD24                 |                 | int : M 22520/2-01<br>ext : M 22520/5-01                       | int : K709<br>ext : M 22520/5-45                     |                                                                  |                                                 |
| 072 M 08      | ABS 0973 M 08A          | 001714 711 02 <sup>(2)</sup> | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 075 F 08      | ABS 1503-KD24           | 001704 705 02                | S             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 074 M 08      |                         | 001714 705 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | ASNE 0825<br>LW0800     | 001704 780 03                | S             | 8<br>80A                    | 8                                              | 8,98            | 5,2 - 5,6<br><i>(.205 to .22)</i>                              | M22520/23-01<br>+.../23-02 414<br>DA8N die set       | 4664-2                                                           |                                                 |
|               |                         | ASNE 0824                    | 001714 780 03 |                             |                                                |                 |                                                                | P                                                    | M22520/23 +<br>414DA8N die set                                   |                                                 |
| /             | SAE-AS39029<br>/ 63-368 | 001704 201 02                | S             | 20                          | 24-22-20                                       | 0,21 - 0,60     | 0,85 - 1,73<br><i>(.033 - .068)</i>                            | M 22520/2-01                                         | M 22520/2-08                                                     | M 81969/39-01<br>001112 210 25                  |
| 015 F 2020    | /                       | 001704 201 50                |               |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| /             | SAE-AS39029<br>/ 64-369 | 001714 201 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 014 M 2020    | /                       | 001714 201 50                |               |                             | 24-22<br>20-18                                 | 0,25 - 1        |                                                                |                                                      |                                                                  |                                                 |
| 015 F 2018    | ASNE 0396<br>DV 2001    | 001704 202 02                | S             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |
| 014 M 2018    | ASNE 0395<br>FV 2001    | 001714 202 02                | P             |                             |                                                |                 |                                                                |                                                      |                                                                  |                                                 |





# Amphenol

Please contact

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