

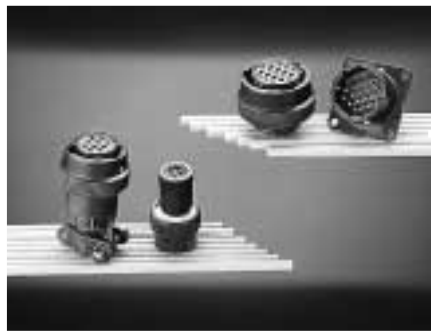
# 851 Series

## Applications

Former connector for military applications.  
Now used in the fields of professional and general electronics.

## Standards

MIL-C 26482 G Series 1  
NFC 93422-He 301 B  
VG 95328  
BS 9522 F 0017  
GAM T1 list  
QPL approved (solder version)



## Description

- Bayonet coupling
- Environmental and hermetic versions
- Solder, crimp, straight spills and wire wrap versions
- Thermocouple contacts available
- Cadmium free plating (Zinc Cobalt) version

## Characteristics

### Mechanical

- Shell :
  - environmental version : aluminum alloy plating
  - olive green cadmium
  - black anodized
  - white cadmium
  - satin finish bright nickel
  - zinc cobalt (olive green)
- hermetic version : steel
- plating : - iridescent yellow cadmium, nickel
- Insulator :
  - front section : neoprene elastomer (85 shore)
  - rear section : neoprene elastomer (40 shore)
- Contact :
  - crimp : inserted and removed from rear of insulator retained by metallic clip ; solder and straight spills : non removable ; wire wrap : removable or not removable
  - material : copper alloy
  - plating : gold overall or gold plated active zone and tin/lead plated termination
  - min retention force of contacts in insulator

| contact size  | crimp   | solder straight spill ww |
|---------------|---------|--------------------------|
| 20 (Ø 1 mm)   | ≥ 68 N  | ≥ 68 N                   |
| 16 (Ø 1.6 mm) | ≥ 113 N | ≥ 113 N                  |

- Mechanical endurance :  
500 cycles (full mating-unmating)

### Electrical

- Dielectric withstanding voltage :
  - at standard pressure :  
mated and unmated connectors
  - 1 500 Vrms between size 20 contacts (service 1)
  - 2 300 Vrms between size 16 contacts (service 2)
  - 1 500 Vrms between mixed size 20 and 16 contacts (service 1)
  - at reduced pressure (10 mbar) :  
connectors mated and unmated
  - 200 Vrms between size 20 contacts (service 1)
  - 300 Vrms between size 16 contacts (service 2)
- Insulation resistance : ≥ 5 000 MΩ under 500 Vdc
- Current rating per contact :
  - size 20 : 7.5 A
  - size 16 : 13 A

- Contact resistance :
  - environmental version :  
size 20 : 4 mΩ      size 16 : 3 mΩ
  - hermetic version :  
size 20 : 30 mΩ      size 16 : 14 mΩ
- Shielding : 70 dB to 5 MHz  
40 dB to 100 MHz

### Climatic

- Working temperature : -55°C to +125°C
- Sealing :
  - crimp contact version, 1 bar differential pressure, leakage ≤ 8 cm³/hr
  - solder contact version, 2 bar differential pressure, leakage ≤ 16 cm³/hr
- Hermiticity : 1 bar differential pressure leakage ≤ 2,8 mm³/hr
- Chemical resistance :
  - to MIL-C 26482 G Series 1 and
  - NFC 93422-HE 301 B code A
- Resistance to salt spray : 48 hours at environmental temperature
- Damp heat : 21 days
- Vibration : to NFC 20-616

## Ordering information - Environmental connectors

|                   |        |                                                                                                                                                             |                                                     |      |   |     |    |   |   |    |     |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------|---|-----|----|---|---|----|-----|
| basic series      |        | solder version                                                                                                                                              | 851                                                 | - 00 | E | 8 - | 3A | P | • | 50 | ••• |
|                   |        | crimp version                                                                                                                                               | 851                                                 | - 00 | R | 8 - | 3A | P | • | 50 | ••• |
| shell type        |        |                                                                                                                                                             |                                                     |      |   |     |    |   |   |    |     |
|                   | solder | crimp                                                                                                                                                       |                                                     |      |   |     |    |   |   |    |     |
|                   | 00     | 00                                                                                                                                                          | - square flange receptacle accepting backshells     |      |   |     |    |   |   |    |     |
|                   | 01     | 01                                                                                                                                                          | - cable connecting receptacle                       |      |   |     |    |   |   |    |     |
|                   | 02E    | 02R                                                                                                                                                         | - square flange receptacle not accepting backshells |      |   |     |    |   |   |    |     |
|                   | 07     | 07                                                                                                                                                          | - jam nut receptacle accepting backshells           |      |   |     |    |   |   |    |     |
|                   | 07A    |                                                                                                                                                             | - jam nut receptacle not accepting backshells       |      |   |     |    |   |   |    |     |
|                   | 06     | 06                                                                                                                                                          | - plug for use with straight backshells             |      |   |     |    |   |   |    |     |
|                   | 08     | 08                                                                                                                                                          | - plug for use with 90° backshells                  |      |   |     |    |   |   |    |     |
|                   | 36     | 36                                                                                                                                                          | - screened plug for use with straight backshells    |      |   |     |    |   |   |    |     |
|                   | 76     | 76                                                                                                                                                          | - screened plug with lock finger                    |      |   |     |    |   |   |    |     |
| backshell type    |        | see table next page                                                                                                                                         |                                                     |      |   |     |    |   |   |    |     |
| shell size        |        | 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24                                                                                                                   |                                                     |      |   |     |    |   |   |    |     |
| contact layout    |        | see table p 20                                                                                                                                              |                                                     |      |   |     |    |   |   |    |     |
| contact type      |        | P = male - S = female                                                                                                                                       |                                                     |      |   |     |    |   |   |    |     |
| orientation       |        | normal (not included in part number) w, x, y, z, see table p 21                                                                                             |                                                     |      |   |     |    |   |   |    |     |
| obligatory suffix |        |                                                                                                                                                             |                                                     |      |   |     |    |   |   |    |     |
|                   | 50     | gold plated crimp contacts - solder contacts size 20 - contacts with a gold plated active zone and tin plated terminations - other gold plated terminations |                                                     |      |   |     |    |   |   |    |     |
|                   | 51     | solder contacts gold plated size 20                                                                                                                         |                                                     |      |   |     |    |   |   |    |     |
|                   | 52     | zinc cobalt olive green plated (contacts : idem specif. 50)                                                                                                 |                                                     |      |   |     |    |   |   |    |     |
| specification     |        |                                                                                                                                                             |                                                     |      |   |     |    |   |   |    |     |
|                   | -      | olive green cadmium plate (without specification)                                                                                                           |                                                     |      |   |     |    |   |   |    |     |
|                   | 02     | white cadmium plate                                                                                                                                         |                                                     |      |   |     |    |   |   |    |     |
|                   | 29     | black anodized (solder contacts)                                                                                                                            |                                                     |      |   |     |    |   |   |    |     |
|                   | 031    | black anodized (crimp contacts)                                                                                                                             |                                                     |      |   |     |    |   |   |    |     |
|                   | 44     | nickel plate                                                                                                                                                |                                                     |      |   |     |    |   |   |    |     |
|                   | 38     | nickel plate                                                                                                                                                |                                                     |      |   |     |    |   |   |    |     |
|                   | 42     | olive green cadmium plate                                                                                                                                   |                                                     |      |   |     |    |   |   |    |     |
|                   |        | } backshell type T* and RT*                                                                                                                                 |                                                     |      |   |     |    |   |   |    |     |

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## Backshell type

| solder | crimp | shells<br>backshell                                                         | solder version |    |    |    |    |    |    | crimp version |    |    |    |    |    |    |
|--------|-------|-----------------------------------------------------------------------------|----------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|
|        |       |                                                                             | 00             | 01 | 07 | 06 | 08 | 36 | 76 | 00            | 01 | 07 | 06 | 08 | 36 | 76 |
| E      | R     | backnut                                                                     | •              | •  | •  | •  | -  | -  | -  | •             | •  | •  | •  | -  | -  | -  |
| EC     | RC    | straight cable clamp                                                        | •              | •  | •  | •  | -  | -  | -  | •             | •  | •  | •  | -  | -  | -  |
| EC     | RC    | 90° cable clamp                                                             | -              | -  | -  | -  | •  | -  | -  | -             | -  | -  | -  | •  | -  | -  |
| AC     |       | straight cable clamp without grommet                                        | •              | •  | •  | •  | -  | -  | -  | -             | -  | -  | -  | -  | -  | -  |
| P      | RP    | straight backshell for potting                                              | •              | •  | •  | •  | -  | -  | -  | •             | •  | •  | •  | -  | -  | -  |
| P      | RP    | 90° backshell for potting                                                   | -              | -  | -  | -  | •  | -  | -  | -             | -  | -  | -  | •  | -  | -  |
| A      | RA    | straight adapter                                                            | •              | •  | -  | •  | -  | •  | -  | •             | •  | -  | •  | -  | •  | -  |
| T      | RT    | straight backshell for heatshrink sleeving                                  | •              | •  | •  | •  | -  | -  | -  | •             | •  | •  | •  | -  | -  | -  |
| M      | RM    | straight removable backshell for heatshrink sleeving                        | •              | •  | -  | •  | -  | -  | -  | •             | •  | -  | •  | -  | -  | -  |
| *T     | *RT   | straight removable backshell for screen termination and heatshrink sleeving | •              | •  | •  | -  | -  | •  | -  | •             | •  | •  | -  | -  | •  | -  |
| G      | RG    | straight removable backshell for screen termination and heatshrink sleeving | •              | •  | •  | -  | -  | •  | -  | •             | •  | •  | -  | -  | •  | -  |
| J      |       | straight backshell with sealing gland                                       | •              | •  | -  | •  | -  | -  | -  | -             | -  | -  | -  | -  | -  | -  |
| JC     |       | straight backshell with sealing gland and cable clamp                       | •              | •  | -  | •  | -  | -  | -  | -             | -  | -  | -  | -  | -  | -  |
| U      | RU    | short backshell for screen termination and heatshrink sleeving              | -              | -  | -  | -  | -  | -  | •  | -             | -  | -  | -  | -  | -  | •  |
| Z      | RZ    | straight adapter for electrical pitch access                                | -              | -  | -  | •  | -  | -  | -  | -             | -  | -  | •  | -  | -  | -  |

## Hermetic connectors

|                   |                                                                                                                                |      |   |     |   |   |    |    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|------|---|-----|---|---|----|----|
| basic series      | 851                                                                                                                            | -02H | 8 | -3A | P | • | 50 | •• |
| shell type        | 02H - square flange receptable<br>07H - jam nut receptable<br>IH - solder fixing receptable                                    |      |   |     |   |   |    |    |
| shell size        | 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24                                                                                      |      |   |     |   |   |    |    |
| contact layout    | see table p 20                                                                                                                 |      |   |     |   |   |    |    |
| contact type      | P = male only                                                                                                                  |      |   |     |   |   |    |    |
| orientation       | N normal (not included in part number) w, x, y, z, see table p 21                                                              |      |   |     |   |   |    |    |
| obligatory suffix | 50 - pre-tinning contact size 20 (termination area), gold plating for other contacts<br>51 - gold plating for size 20 contacts |      |   |     |   |   |    |    |
| specification     | 44 - 02H and 07H, yellow cadmium plating. IH, nickel (without specification)<br>44 - 02H and 07H, nickel                       |      |   |     |   |   |    |    |

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## Straight spills and wire wrap connectors

|                   |     |                                                                                                                                                                                                                                       |      |                                     |     |   |   |    |    |
|-------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|-----|---|---|----|----|
| basic series      |     | 851                                                                                                                                                                                                                                   | -02E | 8                                   | -3A | P | • | 50 | 16 |
| shell type        |     | 02E - square flange receptable not accepting backshell<br>07A - jam nut receptable not accepting backshell                                                                                                                            |      |                                     |     |   |   |    |    |
| shell size        |     | 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24                                                                                                                                                                                             |      |                                     |     |   |   |    |    |
| contact layout    |     | see table p 20                                                                                                                                                                                                                        |      |                                     |     |   |   |    |    |
| contact type      |     | P = male - S = female                                                                                                                                                                                                                 |      |                                     |     |   |   |    |    |
| orientation       |     | N normal (not included in part number) w, x, y, z, see table p 21                                                                                                                                                                     |      |                                     |     |   |   |    |    |
| obligatory suffix |     | 50 - pre-tinning for straight spill size 20 contacts (termination area), gold plating for other contacts<br>51 - gold plating for straight spill contacts size 20<br>52 - zinc cobalt olive green plated (contacts : idem specif. 50) |      |                                     |     |   |   |    |    |
| specification     |     |                                                                                                                                                                                                                                       |      |                                     |     |   |   |    |    |
| straight spill    | 16  | olive green cadmium plated body                                                                                                                                                                                                       |      | - Ø 1 mm contact, Ø 0,6 mm terminal |     |   |   |    |    |
|                   | 40  | white cadmium plated body                                                                                                                                                                                                             |      | - Ø 1,6 mm contact, Ø 1 mm terminal |     |   |   |    |    |
| wire wrap         | 34  | non-bonded contacts, olive green cadmium plated shell                                                                                                                                                                                 |      | - Ø 1 mm contact, Ø 0,6 mm terminal |     |   |   |    |    |
|                   | 34A | bonded contacts, olive green cadmium plated shell                                                                                                                                                                                     |      | - Ø 1,6 mm contact, Ø 1 mm terminal |     |   |   |    |    |

## Cross reference list

### 851 version with crimp contacts (olive green cadmium plating) connectors with backshells

| FCI Souriau           | NFC 93422 (HE 301 B)    | MIL-C 26482 G Series I | VG 95328         |
|-----------------------|-------------------------|------------------------|------------------|
| 851 00 R .. .. 50 ..  | HE 301 B 00 R .. .. 1A  | * MS 3120 E .. ..      | VG 95328 A .. .. |
| 851 00 RC .. .. 50 .. | HE 301 B 00 RC .. .. 1A | * MS 3120 F .. ..      | VG 95328 B .. .. |
| 851 00 RP .. .. 50 .. | HE 301 B 00 RP .. .. 1A | * MS 3120 P .. ..      |                  |
| 851 00 RG .. .. 50 .. |                         |                        | VG 95328 R .. .. |
| 851 00 RA .. .. 50 .. | HE 301 B 00 RA .. .. 1A |                        |                  |
| 851 01 R .. .. 50 ..  | HE 301 B 01 R .. .. 1A  | * MS 3121 E .. ..      |                  |
| 851 01 RC .. .. 50 .. | HE 301 B 01 RC .. .. 1A | * MS 3121 F .. ..      |                  |
| 851 01 RP .. .. 50 .. | HE 301 B 01 RP .. .. 1A | * MS 3121 P .. ..      |                  |
| 851 01 RA .. .. 50 .. | HE 301 B 01 RA .. .. 1A |                        |                  |
| 851 02 R .. .. 50 ..  | HE 301 B 02 R .. .. 1A  | * MS 3122 E .. ..      | VG 95328 C .. .. |
| 851 06 R .. .. 50 ..  | HE 301 B 06 R .. .. 1A  | * MS 3126 E .. ..      |                  |
| 851 06 RC .. .. 50 .. | HE 301 B 06 RC .. .. 1A | * MS 3126 F .. ..      | VG 95328 K .. .. |
| 851 06 RP .. .. 50 .. | HE 301 B 06 RP .. .. 1A | * MS 3126 P .. ..      |                  |
| 851 06 RT .. .. 50 .. |                         |                        | VG 95328 J .. .. |
| 851 06 RA .. .. 50 .. | HE 301 B 06 RA .. .. 1A |                        |                  |
| 851 36 RG .. .. 50 .. |                         |                        | VG 95328 M .. .. |
| 851 36 RA .. .. 50 .. |                         |                        | VG 95328 N .. .. |
| 851 07 R .. .. 50 ..  | HE 301 B 07 R .. .. 1A  | * MS 3124 E .. ..      | VG 95328 D .. .. |
| 851 07 RC .. .. 50 .. | HE 301 B 07 RC .. .. 1A | * MS 3124 F .. ..      | VG 95328 E .. .. |
| 851 07 RP .. .. 50 .. | HE 301 B 07 RP .. .. 1A | * MS 3124 P .. ..      |                  |
| 851 07 RT .. .. 50 .. |                         |                        | VG 95328 S .. .. |
| 851 07 RG .. .. 50 .. |                         |                        | VG 95328 T .. .. |
| 851 76 RU .. .. 50 .. |                         |                        | VG 95328 U .. .. |
| 851 08 RC .. .. 50 .. | HE 301 B 08 RC .. .. 1A |                        |                  |
| 851 08 RP .. .. 50 .. | HE 301 B 08 RP .. .. 1A |                        |                  |

\* Not QPL.

## Other plating

| plating        | FCI Souriau    |                 | NFC 93422 (HE 301 B) |
|----------------|----------------|-----------------|----------------------|
|                | solder version | crimp version   |                      |
| white cadmium  | 851 .. .. 5002 | 851 .. .. 5002  | HE 301 B .. .. 2A    |
| black anodized | 851 .. .. 5029 | 851 .. .. 50031 | HE 301 B .. .. 4A    |
| nickel         | 851 .. .. 5044 | 851 .. .. 5044  | HE 301 B .. .. 5A    |

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## 851 version with solder contacts (olive green cadmium plating) connectors with backshells

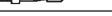
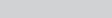
| FCI Souriau           | NFC 93422 (HE 301 B)    | MIL-C 26482 G Series I | VG 95328         |
|-----------------------|-------------------------|------------------------|------------------|
| 851 00 E .. .. 50 ..  | HE 301 B 00 E .. .. 1A  | MS 3110 E .. ..        | VG 95328 H .. .. |
| 851 00 EC .. .. 50 .. | HE 301 B 00 EC .. .. 1A | MS 3110 F .. ..        |                  |
| 851 00 AC .. .. 50 .. | HE 301 B 00 AC .. .. 1A |                        |                  |
| 851 00 P .. .. 50 ..  | HE 301 B 00 P .. .. 1A  | MS 3110 P .. ..        |                  |
| 851 00 A .. .. 50 ..  | HE 301 B 00 A .. .. 1A  |                        |                  |
| 851 00 J .. .. 50 ..  | HE 301 B 00 J .. .. 1A  |                        |                  |
| 851 00 JC .. .. 50 .. |                         | MS 3110 J .. ..        |                  |
| 851 01 E .. .. 50 ..  | HE 301 B 01 E .. .. 1A  | MS 3111 E .. ..        |                  |
| 851 01 EC .. .. 50 .. | HE 301 B 01 EC .. .. 1A | MS 3111 F .. ..        |                  |
| 851 01 AC .. .. 50 .. | HE 301 B 01 AC .. .. 1A |                        |                  |
| 851 01 P .. .. 50 ..  | HE 301 B 01 P .. .. 1A  | MS 3111 P .. ..        |                  |
| 851 01 A .. .. 50 ..  | HE 301 B 01 A .. .. 1A  |                        |                  |
| 851 01 J .. .. 50 ..  | HE 301 B 01 J .. .. 1A  |                        |                  |
| 851 01 JC .. .. 50 .. |                         | MS 3111 J .. ..        |                  |
| 851 02 E .. .. 50 ..  | HE 301 B 02 E .. .. 1A  | MS 3112 E .. ..        |                  |
| 851 06 E .. .. 50 ..  | HE 301 B 06 E .. .. 1A  | MS 3116 E .. ..        |                  |
| 851 06 EC .. .. 50 .. | HE 301 B 06 EC .. .. 1A | MS 3116 F .. ..        |                  |
| 851 06 AC .. .. 50 .. | HE 301 B 06 AC .. .. 1A |                        |                  |
| 851 06 P .. .. 50 ..  | HE 301 B 06 P .. .. 1A  | MS 3116 P .. ..        |                  |
| 851 06 A .. .. 50 ..  | HE 301 B 06 A .. .. 1A  |                        |                  |
| 851 06 J .. .. 50 ..  | HE 301 B 06 J .. .. 1A  |                        |                  |
| 851 06 JC .. .. 50 .. |                         | MS 3116 J .. ..        |                  |
| 851 08 EC .. .. 50 .. | HE 301 B 08 EC .. .. 1A |                        |                  |
| 851 08 P .. .. 50 ..  | HE 301 B 08 P .. .. 1A  |                        |                  |
| 851 07 E .. .. 50 ..  | HE 301 B 07 E .. .. 1A  | MS 3114 E .. ..        |                  |
| 851 07 EC .. .. 50 .. | HE 301 B 07 EC .. .. 1A | MS 3114 F .. ..        |                  |
| 851 07 AC .. .. 50 .. | HE 301 B 07 AC .. .. 1A |                        |                  |
| 851 07 P .. .. 50 ..  | HE 301 B 07 P .. .. 1A  | MS 3114 P .. ..        |                  |
| 851 07 A .. .. 50 ..  | HE 301 B 07 A .. .. 1A  |                        |                  |

## 851 hermetic version

| FCI Souriau         | NFC 93422 (model HE 301 B) | MIL-C 26482 G Series I                       | VG 95328         |
|---------------------|----------------------------|----------------------------------------------|------------------|
| 851 02 H .. .. P.50 | HE 301 B 02 H .. .. P.3A   | * MS 3114 H .. .. P.<br>* MS 3113 H .. .. P. | VG 95328 F .. .. |
| 851 07 H .. .. P.50 | HE 301 B 07 H .. .. P.3A   |                                              | VG 95328 G .. .. |
| 851 1H .. .. P.50   | HE 301 B 1 H .. .. P.3A    |                                              |                  |

\* Not QPL.

## Contacts - Crimp contacts

| contact type    |         |                                         | contact size | part numbers | section in mm² | gauge AWG | Ø over insulation min/Max (mm) |                                                                                       |                                                                                       |
|-----------------|---------|-----------------------------------------|--------------|--------------|----------------|-----------|--------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| standard        | male    | for contact layouts 82, 83 84 and 12.14 | 20           | 8500-9573    | 0.21 to 0.93   | 24 to 18  | 1.20 / 2.11                    |  |                                                                                       |
|                 | female  |                                         |              | 8500-9213    |                |           |                                |  |                                                                                       |
|                 | male    | for other contact layouts               |              | 8500-697     | 0.93 to 1.91   | 18 to 14  | 1.60 / 2.80                    |  |                                                                                       |
|                 | female  |                                         |              | 8500-1758A   |                |           |                                |  |                                                                                       |
|                 | male    |                                         | 16           | 8500-1300    | 0.93 to 1.91   | 18 to 14  | 1.60 / 2.80                    |  |                                                                                       |
|                 | female  |                                         |              | 8500-9331    |                |           |                                |  |                                                                                       |
| reducing sleeve |         |                                         | 20           | 8500-781     | 0.26 to 0.21   | 30 to 24  |                                |  |                                                                                       |
|                 |         |                                         | 16           | 8500-1985    | 0.60           | 20        |                                |  |                                                                                       |
| thermocouple    | chromel | male                                    | 20           | 8500-809     | 0.21 to 0.93   | 24 to 18  | 1.20 / 2.11                    |  |                                                                                       |
|                 | alumel  |                                         |              | 8500-812     |                |           |                                |  |                                                                                       |
|                 | chromel | female                                  |              | 8500-2054    | 0.93 to 1.91   | 18 to 14  | 1.60 / 2.80                    |  |                                                                                       |
|                 | alumel  |                                         |              | 8500-2055    |                |           |                                |  |                                                                                       |
|                 | chromel | male                                    | 16           | 8500-1053    | 0.93 to 1.91   | 18 to 14  | 1.60 / 2.80                    |  |                                                                                       |
|                 | alumel  |                                         |              | 8500-1058    |                |           |                                |  |                                                                                       |
|                 | chromel | female                                  |              | 8500-1054    | 1.91 to 2.5    | 14 to 10  |                                |                                                                                       |  |
|                 | alumel  |                                         |              | 8500-1059    |                |           |                                |                                                                                       |  |

## Wire wrap contacts

| contact type | contact size | part numbers | diagonals    | gauge AWG   | number of wraps |  |
|--------------|--------------|--------------|--------------|-------------|-----------------|--|
| male         | 20           | 8500-4220    | 0.78 to 0.85 | 26-28-30    | 3               |  |
| female       |              | 8500-9351    | 0.78 to 0.85 | 26-28-30    | 3               |  |
| male         | 16           | 8500-4304    | 1.55 to 1.70 | 20-22-24-26 | 3               |  |
| female       |              | 8500-4305    | 1.55 to 1.70 | 20-22-24-26 | 3               |  |

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## Contact layouts

Viewed from front face of male insulator

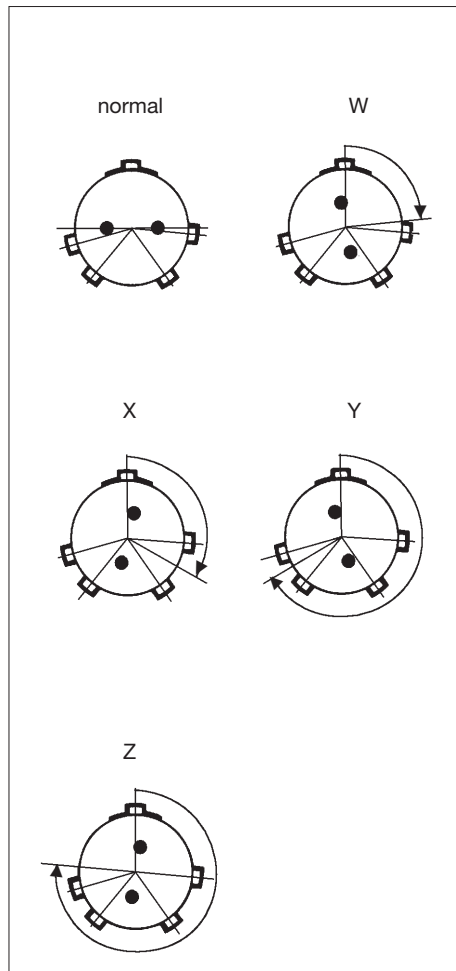
|                    |                                  |                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                 |                                |
|--------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------|
| shells<br><b>8</b> | <b>2</b><br><br>2 Ø 1 (# 20)     | <b>3</b><br><br>3 Ø 1 (# 20)                                                                                                                                                                                                                                                                                                          | <b>3A<br/>OU<br/>98</b><br><br>3 Ø 1 (# 20)      | <b>4</b><br><br>4 Ø 1 (# 20)                                    | <b>33</b><br><br>3 Ø 1 (# 20)  |
| <b>10</b>          | <b>6</b><br><br>6 Ø 1 (# 20)     | <b>7</b><br><br>7 Ø 1 (# 20)                                                                                                                                                                                                                                                                                                          | <b>98</b><br><br>6 Ø 1 (# 20)                    |                                                                 |                                |
| <b>12</b>          | <b>3</b><br><br>3 Ø 1,6 (# 16)   | <b>8</b><br><br>8 Ø 1 (# 20)                                                                                                                                                                                                                                                                                                          | <b>10</b><br><br>10 Ø 1 (# 20)                   | <b>2</b><br><br>2 Ø 1,6 (# 16)                                  | <b>14</b><br><br>14 Ø 1 (# 20) |
| <b>14</b>          | <b>5</b><br><br>5 Ø 1,6 (# 16)   | <b>12</b><br><br>8 Ø 1 (# 20)<br>4 Ø 1,6 (# 16)                                                                                                                                                                                                                                                                                       | <b>15</b><br><br>14 Ø 1 (# 20)<br>1 Ø 1,6 (# 16) | <b>18</b><br><br>18 Ø 1 (# 20)                                  | <b>19</b><br><br>19 Ø 1 (# 20) |
| <b>16</b>          | <b>8</b><br><br>8 Ø 1,6 (# 16)   | <b>23</b><br><br>22 Ø 1 (# 20)<br>1 Ø 1,6 (# 16)                                                                                                                                                                                                                                                                                      | <b>26</b><br><br>26 Ø 1 (# 20)                   | <b>SN 0775</b><br><br>7 Ø 1 (# 20)<br>3 Ø 1,6 (# 16) 1 coax 50Ω |                                |
| <b>18</b>          | <b>11</b><br><br>11 Ø 1,6 (# 16) | <b>32</b><br><br>32 Ø 1 (# 20)                                                                                                                                                                                                                                                                                                        | <b>30</b><br><br>29 Ø 1 (# 20)<br>1 Ø 1,6 (# 16) |                                                                 |                                |
| <b>20</b>          | <b>16</b><br><br>16 Ø 1,6 (# 16) | <b>39</b><br><br>37 Ø 1 (# 20)<br>2 Ø 1,6 (# 16)                                                                                                                                                                                                                                                                                      | <b>41</b><br><br>41 Ø 1 (# 20)                   | <b>24</b><br><br>24 Ø 1 (# 20)                                  | <b>25</b><br><br>25 Ø 1 (# 20) |
| <b>22</b>          | <b>21</b><br><br>21 Ø 1,6 (# 16) | <b>36</b><br><br>36 Ø 1 (# 20)                                                                                                                                                                                                                                                                                                        | <b>55</b><br><br>55 Ø 1 (# 20)                   | <b>32</b><br><br>32 Ø 1 (# 20)                                  | <b>34</b><br><br>34 Ø 1 (# 20) |
| <b>24</b>          | <b>61</b><br><br>61 Ø 1 (# 20)   | <div> <div>■ solder contact layouts (QPL)</div> <div>□ solder contact layouts</div> <div>+ solder contact layouts without grommet</div> <div>▲ crimp contact layouts</div> <div>■ SHTP</div> <div>● hermetic version contact layouts</div> <div>◆ straight spills contact layouts</div> <div>○ wire wrap contact layouts</div> </div> |                                                  |                                                                 |                                |

# 851 Series



## Polarization - insulator rotated inside metal body

Viewed from front face of male insulator  
(receptacle or plug)

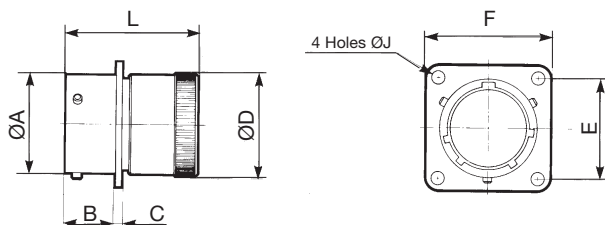


| shell | layout   | angle in degrees |     |     |     | NFC 93422 HE 30 1B |       | MIL-C 26482G Serie 1 |       | service 1 | service 2 |
|-------|----------|------------------|-----|-----|-----|--------------------|-------|----------------------|-------|-----------|-----------|
|       |          | W                | X   | Y   | Z   | solder             | crimp | solder               | crimp | 1500 Vrms | 2300 Vrms |
| 8     | 2        | 58               | 122 | —   | —   |                    |       | •                    |       | X         |           |
|       | 3        | 60               | 210 | —   | —   |                    |       | •                    |       | X         |           |
|       | 3A (98)* | 60               | 210 | —   | —   |                    |       | •                    | •     | X         |           |
|       | 4        | 45               | —   | —   | —   |                    |       | •                    |       | X         |           |
|       | 33       | 90               | —   | —   | —   |                    | •     | •                    | •     | X         |           |
| 10    | 6        | 90               | —   | —   | —   | •                  | •     | •                    | •     | X         |           |
|       | 7        | —                | —   | —   | —   |                    |       | •                    | •     | X         |           |
|       | 98       | 90               | 180 | 240 | 270 |                    |       | •                    | •     | X         |           |
| 12    | 3        | —                | —   | 180 | —   | •                  | •     | •                    | •     | X         | X         |
|       | 8        | 90               | 112 | 203 | 292 |                    |       | •                    | •     | X         |           |
|       | 10       | 60               | 155 | 270 | 295 | •                  | •     | •                    | •     | X         |           |
|       | 2        | —                | —   | —   | —   |                    |       | •                    |       | X         | X         |
|       | 14       | —                | —   | —   | —   |                    |       | •                    |       | X         |           |
| 14    | 5        | 40               | 92  | 184 | 273 | •                  | •     | •                    | •     | X         | X         |
|       | 12       | 43               | 90  | —   | —   | •                  | •     | •                    | •     | X         |           |
|       | 15       | 17               | 110 | 155 | 234 | •                  | •     | •                    | •     | X         |           |
|       | 18       | 15               | 90  | 180 | 270 |                    |       | •                    | •     | X         |           |
|       | 19       | 30               | 165 | 315 | —   | •                  | •     | •                    | •     | X         |           |
| 16    | 8        | 54               | 152 | 180 | 331 | •                  | •     | •                    | •     | X         | X         |
|       | 23       | 158              | 270 | —   | —   | •                  | •     | •                    | •     | X         |           |
|       | 26       | 60               | —   | 275 | 338 | •                  | •     | •                    | •     | X         |           |
| 18    | 11       | 62               | 119 | 241 | 340 | •                  | •     | •                    | •     | X         | X         |
|       | 32       | 85               | 138 | 222 | 265 | •                  | •     | •                    | •     | X         |           |
|       | 30       | 180              | 193 | 285 | 350 |                    | •     | •                    | •     | X         |           |
| 20    | 16       | 238              | 318 | 333 | 347 | •                  | •     | •                    | •     | X         | X         |
|       | 39       | 63               | 144 | 252 | 333 | •                  | •     | •                    | •     | X         |           |
|       | 41       | 45               | 126 | 225 | —   | •                  | •     | •                    | •     | X         |           |
|       | 24       | 70               | 145 | 215 | 290 |                    |       | •                    | •     | X         |           |
|       | 25       | 72               | 144 | 216 | 288 |                    |       |                      | •     | X         |           |
|       | 27       | 72               | 144 | 216 | 288 |                    | •     |                      | •     | X         |           |
| 22    | 21       | 16               | 135 | 175 | 349 | •                  | •     | •                    | •     | X         | X         |
|       | 36       | 72               | 144 | 216 | 288 |                    | •     | •                    | •     | X         |           |
|       | 55       | 30               | 142 | 226 | 314 | •                  | •     | •                    | •     | X         |           |
|       | 32       | 72               | 145 | 215 | 288 |                    |       | •                    | •     | X         |           |
|       | 34       | 62               | 142 | 218 | 298 |                    |       |                      | •     | X         |           |
| 24    | 61       | 90               | 180 | 270 | 324 | •                  | •     | •                    | •     | X         |           |

\* 8-98 layout W and non standard orientations

## Dimensions - square flange receptacle with backnut

| solder<br>00 E | HE 301 B 00 E<br>MS 3110 E | crimp<br>00 R | HE 301 B 00 R<br>MS 3120 E<br>VG 95328 A | shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | J            |
|----------------|----------------------------|---------------|------------------------------------------|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|--------------|
|                |                            |               |                                          |               | solder         | crimp          |                |               |              |                |                |                |              |
|                |                            |               |                                          | 08            | 32.70<br>1.287 | 32.00<br>1.260 | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 13.50<br>.531  | 15.09<br>.594  | 20.99<br>.826  | 3.13<br>.123 |
|                |                            |               |                                          | 10            | 32.70<br>1.287 | 32.00<br>1.260 | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 16.70<br>.657  | 18.26<br>.719  | 24.19<br>.952  | 3.13<br>.123 |
|                |                            |               |                                          | 12            | 32.70<br>1.287 | 32.00<br>1.260 | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 19.90<br>.783  | 20.62<br>.812  | 26.54<br>1.045 | 3.13<br>.123 |
|                |                            |               |                                          | 14            | 32.70<br>1.287 | 32.00<br>1.260 | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 23.40<br>.921  | 23.00<br>.906  | 28.89<br>1.137 | 3.13<br>.123 |
|                |                            |               |                                          | 16            | 32.70<br>1.287 | 32.00<br>1.260 | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 26.60<br>1.047 | 24.61<br>.969  | 31.29<br>1.232 | 3.13<br>.123 |
|                |                            |               |                                          | 18            | 32.70<br>1.287 | 32.00<br>1.260 | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 29.50<br>1.161 | 26.97<br>1.062 | 33.69<br>1.326 | 3.13<br>.123 |
|                |                            |               |                                          | 20            | 34.50<br>1.358 | 33.40<br>1.315 | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 32.70<br>1.287 | 29.36<br>1.156 | 36.89<br>1.452 | 3.13<br>.123 |
|                |                            |               |                                          | 22            | 34.50<br>1.358 | 33.40<br>1.315 | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 36.00<br>1.417 | 31.75<br>1.250 | 39.99<br>1.574 | 3.13<br>.123 |
|                |                            |               |                                          | 24            | 34.50<br>1.358 | 33.40<br>1.315 | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 39.10<br>1.539 | 34.92<br>1.375 | 43.15<br>1.699 | 3.81<br>.150 |

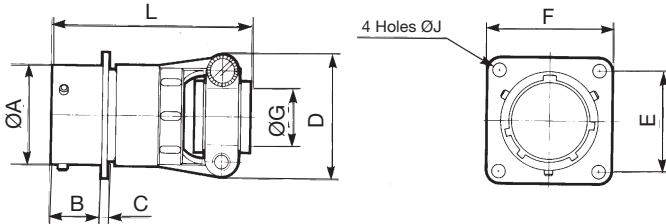


# 851 Series



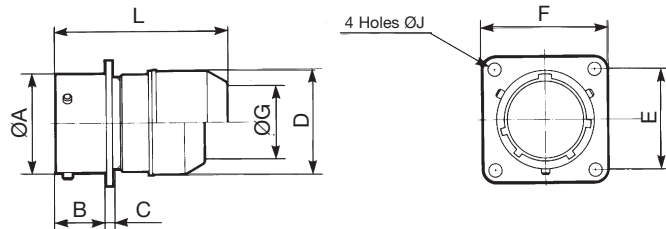
## Square flange receptacle with straight cable clamp

| solder<br>00 EC | HE 301 B 00 EC<br>MS 3110 F               | shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | G             | J            |
|-----------------|-------------------------------------------|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|---------------|--------------|
|                 |                                           |               | solder         | crimp          |                |               |              |                |                |                |               |              |
| 00 AC           | HE 301 B 00 AC                            | 08            | 48.00<br>1.890 | 47.30<br>1.862 | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 19.90<br>.783  | 15.09<br>.594  | 20.99<br>.826  | 3.50<br>.138  | 3.13<br>.123 |
| crimp           |                                           | 10            | 48.00<br>1.890 | 47.30<br>1.862 | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 21.50<br>.846  | 18.26<br>.719  | 24.19<br>.952  | 5.00<br>.197  | 3.13<br>.123 |
| 00 RC           | HE 301 B 00 RC<br>MS 3120 F<br>VG 95328 B | 12            | 48.00<br>1.890 | 47.30<br>1.862 | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 25.00<br>.984  | 20.62<br>.812  | 26.54<br>1.045 | 8.20<br>.323  | 3.13<br>.123 |
|                 |                                           | 14            | 48.00<br>1.890 | 47.30<br>1.862 | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 27.80<br>1.094 | 23.00<br>.906  | 28.89<br>1.137 | 10.00<br>.394 | 3.13<br>.123 |
|                 |                                           | 16            | 51.00<br>2.008 | 50.50<br>1.988 | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 29.40<br>1.157 | 24.61<br>.969  | 31.29<br>1.232 | 13.00<br>.512 | 3.13<br>.123 |
|                 |                                           | 18            | 51.00<br>2.008 | 50.50<br>1.988 | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 35.30<br>1.390 | 26.97<br>1.062 | 33.69<br>1.326 | 16.00<br>.630 | 3.13<br>.123 |
|                 |                                           | 20            | 53.00<br>2.087 | 51.50<br>2.028 | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 35.30<br>1.390 | 29.36<br>1.156 | 36.89<br>1.452 | 16.00<br>.630 | 3.13<br>.123 |
|                 |                                           | 22            | 53.00<br>2.087 | 51.50<br>2.028 | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 41.10<br>1.618 | 31.75<br>1.250 | 39.99<br>1.574 | 19.30<br>.760 | 3.13<br>.123 |
|                 |                                           | 24            | 53.00<br>2.087 | 51.50<br>2.028 | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 42.40<br>1.669 | 34.92<br>1.375 | 43.15<br>1.699 | 20.60<br>.811 | 3.81<br>.150 |



## Square flange receptacle with straight backshell for potting

| solder<br>00 P | HE 301 B 00 P<br>MS 3110 P  | shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | G<br>Max       | J            |
|----------------|-----------------------------|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|--------------|
|                |                             |               | solder         | crimp          |                |               |              |                |                |                |                |              |
| crimp          |                             | 08            | 36.20<br>1.425 | 41.70<br>1.642 | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 15.34<br>.604  | 15.09<br>.594  | 20.99<br>.826  | 10.46<br>.412  | 3.13<br>.123 |
| 00 RP          | HE 301 B 00 RP<br>MS 3120 P | 10            | 36.20<br>1.425 | 41.70<br>1.642 | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 17.70<br>.697  | 18.26<br>.719  | 24.19<br>.952  | 13.55<br>.533  | 3.13<br>.123 |
|                |                             | 12            | 36.20<br>1.425 | 41.70<br>1.642 | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 21.69<br>.854  | 20.62<br>.812  | 26.54<br>1.045 | 13.96<br>.550  | 3.13<br>.123 |
|                |                             | 14            | 36.20<br>1.425 | 41.70<br>1.642 | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 23.90<br>.941  | 23.00<br>.906  | 28.89<br>1.137 | 17.42<br>.686  | 3.13<br>.123 |
|                |                             | 16            | 36.20<br>1.425 | 41.70<br>1.642 | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 27.00<br>1.063 | 24.61<br>.969  | 31.29<br>1.232 | 20.56<br>.809  | 3.13<br>.123 |
|                |                             | 18            | 36.91<br>1.453 | 44.46<br>1.750 | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 30.50<br>1.201 | 26.97<br>1.062 | 33.69<br>1.326 | 23.66<br>.931  | 3.13<br>.123 |
|                |                             | 20            | 43.80<br>1.724 | 50.93<br>2.005 | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 33.65<br>1.296 | 29.36<br>1.156 | 36.89<br>1.452 | 23.92<br>.942  | 3.13<br>.123 |
|                |                             | 22            | 43.80<br>1.724 | 50.93<br>2.005 | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 37.10<br>1.461 | 31.75<br>1.250 | 39.99<br>1.574 | 25.52<br>1.005 | 3.13<br>.123 |
|                |                             | 24            | 43.80<br>1.724 | 51.40<br>2.024 | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 40.00<br>1.575 | 34.92<br>1.375 | 43.15<br>1.699 | 32.00<br>1.260 | 3.81<br>.150 |

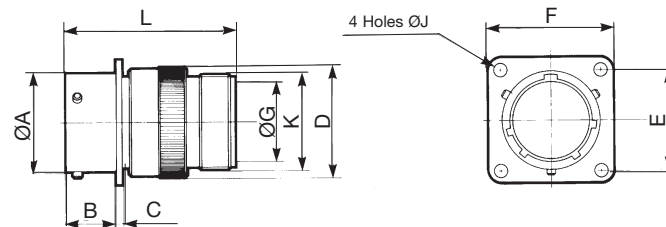


## Square flange receptacle with straight adapter

|                |                |
|----------------|----------------|
| solder<br>00 A | HE 301 B 00A   |
| crimp<br>00 RA | HE 301 B 00 RA |

Technical drawing of the HE 301 B connector. The side view shows dimensions L (total length), ØA (outer diameter), B (crimp length), C (solder length), ØG (inner diameter), K (thread length), and D (total diameter). The front view shows dimensions F (width), E (height), and 4 Holes ØJ (four mounting holes).

| shell<br>size | L Max           | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | G<br>Max       | J            | K threading<br>UNEF 2A |
|---------------|-----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|--------------|------------------------|
|               | solder<br>crimp |                |               |              |                |                |                |                |              |                        |
| 08            | 41.00<br>1.614  | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 14.50<br>.571  | 15.09<br>.594  | 20.99<br>.826  | 9.10<br>.358   | 3.13<br>.123 | 1/2 18                 |
| 10            | 41.00<br>1.614  | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 18.70<br>.736  | 18.26<br>.719  | 24.19<br>.952  | 12.08<br>.476  | 3.13<br>.123 | 5/8 24                 |
| 12            | 41.00<br>1.614  | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 21.70<br>.854  | 20.62<br>.812  | 26.54<br>1.045 | 15.25<br>.600  | 3.13<br>.123 | 3/4 20                 |
| 14            | 41.00<br>1.614  | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 25.10<br>.988  | 23.00<br>.906  | 28.89<br>1.137 | 18.15<br>.715  | 3.13<br>.123 | 7/8 20                 |
| 16            | 41.00<br>1.614  | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 28.13<br>1.107 | 24.61<br>.969  | 31.29<br>1.232 | 21.32<br>.839  | 3.13<br>.123 | 1-20                   |
| 18            | 41.00<br>1.614  | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 31.38<br>1.235 | 26.97<br>1.062 | 33.69<br>1.326 | 24.32<br>.957  | 3.13<br>.123 | 1-3/16 18              |
| 20            | 44.00<br>1.732  | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 34.30<br>1.350 | 29.36<br>1.156 | 36.89<br>1.452 | 26.73<br>1.052 | 3.13<br>.123 | 1-3/16 18              |
| 22            | 44.00<br>1.732  | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 37.60<br>1.480 | 31.75<br>1.250 | 39.99<br>1.574 | 30.67<br>1.207 | 3.13<br>.123 | 1-7/16 18              |
| 24            | 44.00<br>1.732  | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 40.70<br>1.602 | 34.92<br>1.375 | 43.15<br>1.699 | 33.08<br>1.302 | 3.81<br>.150 | 1-7/16 18              |





# 851 Series



## Square flange receptacle with straight backshell for heatshrink sleeving

|                |  |               |                |                |                |               |              |                |                |                |                |                |              |              |
|----------------|--|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|
| solder<br>00 T |  | shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | L Max          |                | J            | M<br>Max     |
| crimp<br>00 RT |  |               | solder         | crimp          |                |               |              |                |                |                | solder         | crimp          |              |              |
|                |  | 08            | 36.70<br>1.445 | 36.00<br>1.417 | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 15.35<br>.604  | 15.09<br>.594  | 20.99<br>.826  | 7.20<br>.283   | 6.70<br>.264   | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 10            | 36.70<br>1.445 | 36.00<br>1.417 | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 18.15<br>.715  | 18.26<br>.719  | 24.19<br>.952  | 10.20<br>.402  | 9.40<br>.370   | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 12            | 36.70<br>1.445 | 36.00<br>1.417 | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 23.45<br>.923  | 20.62<br>.812  | 26.54<br>1.045 | 13.20<br>.520  | 11.95<br>.470  | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 14            | 36.70<br>1.445 | 36.00<br>1.417 | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 24.25<br>.955  | 23.00<br>.906  | 28.89<br>1.137 | 16.10<br>.634  | 15.15<br>.596  | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 16            | 39.00<br>1.535 | 38.30<br>1.508 | 28.60<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 31.75<br>1.163 | 26.97<br>.969  | 33.69<br>1.232 | 21.30<br>.758  | 19.95<br>.711  | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 18            | 39.00<br>1.535 | 38.30<br>1.508 | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 31.75<br>1.250 | 26.97<br>1.062 | 33.69<br>1.326 | 21.30<br>.839  | 19.95<br>.785  | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 20            | 45.30<br>1.783 | 44.20<br>1.740 | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 35.85<br>1.411 | 29.36<br>1.156 | 36.89<br>1.452 | 24.40<br>.961  | 23.05<br>.907  | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 22            | 45.30<br>1.783 | 44.20<br>1.740 | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 38.20<br>1.504 | 31.75<br>1.250 | 39.99<br>1.574 | 27.50<br>1.083 | 25.55<br>1.006 | 3.13<br>.123 | 3.70<br>.146 |
|                |  | 24            | 44.00<br>1.732 | 42.60<br>1.677 | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 41.30<br>1.626 | 34.92<br>1.375 | 43.15<br>1.699 | 30.60<br>1.205 | 28.65<br>1.128 | 3.81<br>.150 | 3.70<br>.146 |

## Square flange receptacle with removable straight backshell for heatshrink sleeving

|                |  |
|----------------|--|
| solder<br>00 M |  |
| crimp<br>00 RM |  |

Technical drawing of a square flange receptacle with removable straight backshell for heatshrink sleeving. The drawing includes a side view and a front view. The side view shows dimensions L (total length), ØA (outer diameter of the backshell), ØG (inner diameter of the backshell), ØD (outer diameter of the receptacle), B (length of the receptacle), C (length of the backshell), and M (length of the crimp). The front view shows dimensions F (width of the flange), E (height of the flange), and 4 Holes ØJ (four mounting holes).

| shell<br>size | L Max  |       | A     | B<br>Max | C<br>Max | D<br>Max | E     | F<br>Max | G<br>Max | J    | M<br>Max |
|---------------|--------|-------|-------|----------|----------|----------|-------|----------|----------|------|----------|
|               | solder | crimp |       |          |          |          |       |          |          |      |          |
| 08            | 50.00  | 12.03 | 11.70 | 1.32     | 13.55    | 15.09    | 20.99 | 7.05     | 3.13     | 3.50 |          |
|               | 1.969  | .474  | .461  | .052     | .604     | .719     | .952  | .390     | .123     | .138 |          |
| 10            | 50.00  | 15.01 | 11.70 | 1.32     | 15.35    | 18.26    | 24.19 | 9.90     | 3.13     | 3.50 |          |
|               | 1.969  | .591  | .461  | .052     | .767     | .812     | 1.045 | .496     | .123     | .138 |          |
| 12            | 50.00  | 19.07 | 11.70 | 1.32     | 19.48    | 20.62    | 26.54 | 12.60    | 3.13     | 3.50 |          |
|               | 1.969  | .751  | .461  | .052     | .767     | .812     | 1.045 | .496     | .123     | .138 |          |
| 14            | 50.00  | 22.25 | 11.70 | 1.32     | 21.30    | 23.00    | 28.89 | 15.90    | 3.13     | 3.50 |          |
|               | 1.969  | .876  | .461  | .052     | .839     | .906     | 1.137 | .626     | .123     | .138 |          |
| 16            | 50.00  | 25.42 | 11.70 | 1.32     | 24.50    | 24.61    | 31.29 | 18.95    | 3.13     | 3.50 |          |
|               | 1.969  | 1.001 | .461  | .052     | .965     | .969     | 1.232 | .746     | .123     | .138 |          |
| 18            | 50.00  | 28.60 | 11.70 | 1.32     | 26.45    | 26.97    | 33.69 | 20.90    | 3.13     | 3.50 |          |
|               | 1.969  | 1.126 | .461  | .052     | 1.041    | 1.062    | 1.326 | .823     | .123     | .138 |          |
| 20            | 53.30  | 31.70 | 14.35 | 2.15     | 34.24    | 31.75    | 39.99 | 26.60    | 3.13     | 3.50 |          |
|               | 2.098  | 1.376 | .565  | .085     | 1.348    | 1.250    | 1.574 | 1.047    | .123     | .138 |          |
| 22            | 53.30  | 34.95 | 14.35 | 2.15     | 34.24    | 31.75    | 39.99 | 26.60    | 3.13     | 3.50 |          |
|               | 2.098  | 1.376 | .565  | .085     | 1.348    | 1.250    | 1.574 | 1.047    | .123     | .138 |          |
| 24            | 53.30  | 38.12 | 15.20 | 2.15     | 36.47    | 34.92    | 43.15 | 29.30    | 3.81     | 3.50 |          |
|               | 2.098  | 1.501 | .598  | .085     | 1.436    | 1.375    | 1.699 | 1.154    | .150     | .138 |          |

## Square flange receptacle with removable straight backshell for screen termination and heatshrink sleeving (38 and 42 suffix)

|                |  |
|----------------|--|
| solder<br>00 T |  |
| crimp<br>00 RT |  |

Technical drawing of a square flange receptacle with removable straight backshell for screen termination and heatshrink sleeving. The drawing includes a side view and a front view. The side view shows dimensions L (total length), ØA (outer diameter of the backshell), ØG (inner diameter of the backshell), ØD (outer diameter of the receptacle), B (backshell thickness), C (receptacle length), and M (mounting flange thickness). The front view shows dimensions F (flange width), E (flange height), and 4 Holes ØJ (four mounting holes).

| shell<br>size | L Max<br>solder<br>crimp | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | G<br>Max       | J            | M<br>Max     |
|---------------|--------------------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|--------------|--------------|
| 08            | 51.60<br>2.031           | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 18.25<br>.719  | 15.09<br>.594  | 20.99<br>.826  | 7.45<br>.293   | 3.13<br>.123 | 3.70<br>.146 |
| 10            | 51.60<br>2.031           | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 20.25<br>.797  | 18.26<br>.719  | 24.19<br>.952  | 9.00<br>.354   | 3.13<br>.123 | 3.70<br>.146 |
| 12            | 51.60<br>2.031           | 22.25<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 24.75<br>.974  | 20.62<br>.812  | 26.54<br>1.045 | 13.30<br>.524  | 3.13<br>.123 | 3.70<br>.146 |
| 14            | 51.60<br>2.031           | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 27.75<br>1.093 | 23.00<br>.906  | 28.89<br>1.137 | 16.50<br>.650  | 3.13<br>.123 | 3.70<br>.146 |
| 16            | 51.60<br>2.031           | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 30.05<br>1.183 | 24.61<br>.969  | 31.29<br>1.232 | 18.50<br>.728  | 3.13<br>.123 | 3.70<br>.146 |
| 18            | 52.00<br>2.047           | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 34.15<br>1.344 | 26.97<br>1.062 | 33.69<br>1.326 | 21.90<br>.862  | 3.13<br>.123 | 3.70<br>.146 |
| 20            | 55.10<br>2.169           | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 37.25<br>1.467 | 29.36<br>1.156 | 36.89<br>1.452 | 25.10<br>.988  | 3.13<br>.123 | 3.70<br>.146 |
| 22            | 55.10<br>2.169           | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 40.45<br>1.593 | 31.75<br>1.250 | 39.99<br>1.574 | 28.20<br>1.110 | 3.13<br>.123 | 3.70<br>.146 |
| 24            | 55.10<br>2.169           | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 36.47<br>1.719 | 34.92<br>1.375 | 43.15<br>1.699 | 29.30<br>1.236 | 3.81<br>.150 | 3.50<br>.146 |



# 851 Series



## Square flange receptacle with removable straight backshell for screen termination and heatshrink sleeving

|                |            |  |               |                          |                |               |              |                |                |                |                |              |              |
|----------------|------------|--|---------------|--------------------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|--------------|--------------|
| solder<br>00 G |            |  | shell<br>size | L Max<br>solder<br>crimp | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | G<br>Max       | J            | M<br>Max     |
| crimp<br>00 RG | VG 95328 R |  | 08            | 51.60<br>2.031           | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 18.25<br>.719  | 15.09<br>.594  | 20.99<br>.826  | 7.45<br>.293   | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 10            | 51.60<br>2.031           | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 20.25<br>.797  | 18.26<br>.719  | 24.19<br>.952  | 9.00<br>.354   | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 12            | 51.60<br>2.031           | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 24.75<br>.974  | 20.62<br>.812  | 26.54<br>1.045 | 13.30<br>.524  | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 14            | 51.60<br>2.031           | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 27.75<br>1.093 | 23.00<br>.906  | 28.89<br>1.137 | 16.50<br>.650  | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 16            | 51.60<br>2.031           | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 30.05<br>1.183 | 24.61<br>.969  | 31.29<br>1.232 | 18.50<br>.728  | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 18            | 52.00<br>2.047           | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 34.15<br>1.344 | 26.97<br>1.062 | 33.69<br>1.326 | 21.90<br>.862  | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 20            | 55.10<br>2.169           | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 37.25<br>1.467 | 29.36<br>1.156 | 36.89<br>1.452 | 25.10<br>.988  | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 22            | 55.10<br>2.169           | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 40.45<br>1.593 | 31.75<br>1.250 | 39.99<br>1.574 | 28.20<br>1.110 | 3.13<br>.123 | 3.70<br>.146 |
|                |            |  | 24            | 55.10<br>2.169           | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 43.65<br>1.719 | 34.92<br>1.375 | 43.15<br>1.699 | 31.40<br>1.236 | 3.81<br>.150 | 3.70<br>.146 |

## Square flange receptacle with straight sealing gland backshell

|                |               |  |               |                 |                |               |              |                |                |                |               |               |              |
|----------------|---------------|--|---------------|-----------------|----------------|---------------|--------------|----------------|----------------|----------------|---------------|---------------|--------------|
| solder<br>00 J | HE 301 B 00 J |  | shell<br>size | L Max<br>solder | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | G             |               | J            |
|                |               |  | 08            | 47.60<br>1.874  | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 14.40<br>.567  | 15.09<br>.594  | 20.99<br>.826  | 5.02<br>.198  | 5.84<br>.230  | 3.13<br>.123 |
|                |               |  | 10            | 47.60<br>1.874  | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 17.60<br>.693  | 18.26<br>.719  | 24.19<br>.952  | 5.94<br>.234  | 6.76<br>.266  | 3.13<br>.123 |
|                |               |  | 12            | 48.70<br>1.917  | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 21.10<br>.831  | 20.62<br>.812  | 26.54<br>1.045 | 9.34<br>.368  | 10.16<br>.400 | 3.13<br>.123 |
|                |               |  | 14            | 53.50<br>2.106  | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 24.40<br>.961  | 23.00<br>.906  | 28.89<br>1.137 | 11.32<br>.446 | 12.14<br>.478 | 3.13<br>.123 |
|                |               |  | 16            | 59.00<br>2.323  | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 27.60<br>1.087 | 24.61<br>.969  | 31.29<br>1.232 | 14.73<br>.580 | 15.55<br>.612 | 3.13<br>.123 |
|                |               |  | 18            | 65.00<br>2.559  | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 30.80<br>1.213 | 26.97<br>1.062 | 33.69<br>1.326 | 16.00<br>.630 | 16.82<br>.662 | 3.13<br>.123 |
|                |               |  | 20            | 79.10<br>3.114  | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 34.10<br>1.343 | 29.36<br>1.156 | 36.89<br>1.452 | 16.89<br>.665 | 17.70<br>.697 | 3.13<br>.123 |
|                |               |  | 22            | 80.00<br>3.150  | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 37.30<br>1.469 | 31.75<br>1.250 | 39.99<br>1.574 | 17.78<br>.700 | 18.60<br>.732 | 3.13<br>.123 |
|                |               |  | 24            | 90.00<br>3.543  | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 40.50<br>1.594 | 34.92<br>1.375 | 43.15<br>1.699 | 20.34<br>.801 | 21.16<br>.833 | 3.81<br>.150 |

## Square flange receptacle with straight sealing gland and cable clamp

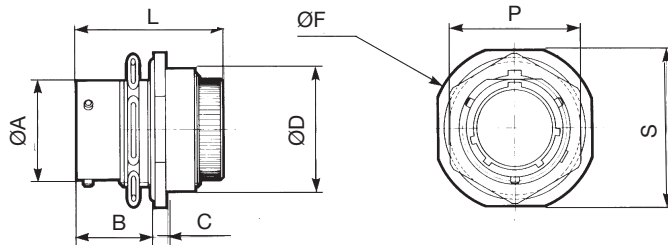
|                 |          |  |               |                 |                |               |              |                |                |                |               |               |              |
|-----------------|----------|--|---------------|-----------------|----------------|---------------|--------------|----------------|----------------|----------------|---------------|---------------|--------------|
| solder<br>00 JC | MS 3110J |  | shell<br>size | L Max<br>solder | A              | B<br>Max      | C<br>Max     | D<br>Max       | E              | F<br>Max       | G             |               | J            |
|                 |          |  | 08            | 57.68<br>2.271  | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 19.90<br>.783  | 15.09<br>.594  | 20.99<br>.826  | 5.02<br>.198  | 5.84<br>.230  | 3.13<br>.123 |
|                 |          |  | 10            | 57.68<br>2.271  | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 21.50<br>.846  | 18.26<br>.719  | 24.19<br>.952  | 5.94<br>.234  | 6.76<br>.266  | 3.13<br>.123 |
|                 |          |  | 12            | 61.24<br>2.411  | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 25.00<br>.984  | 20.62<br>.812  | 26.54<br>1.045 | 9.34<br>.368  | 10.16<br>.400 | 3.13<br>.123 |
|                 |          |  | 14            | 66.01<br>2.599  | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 27.80<br>1.094 | 23.00<br>.906  | 28.89<br>1.137 | 11.32<br>.446 | 12.14<br>.478 | 3.13<br>.123 |
|                 |          |  | 16            | 74.75<br>2.943  | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 29.40<br>1.157 | 24.61<br>.969  | 31.29<br>1.232 | 14.73<br>.580 | 15.55<br>.612 | 3.13<br>.123 |
|                 |          |  | 18            | 80.57<br>3.172  | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 35.30<br>1.390 | 26.97<br>1.062 | 33.69<br>1.326 | 16.00<br>.630 | 16.82<br>.662 | 3.13<br>.123 |
|                 |          |  | 20            | 91.69<br>3.610  | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 35.30<br>1.390 | 29.36<br>1.156 | 36.89<br>1.452 | 16.89<br>.665 | 17.70<br>.697 | 3.13<br>.123 |
|                 |          |  | 22            | 95.66<br>3.766  | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 41.10<br>1.618 | 31.75<br>1.250 | 39.99<br>1.574 | 17.78<br>.700 | 18.60<br>.732 | 3.13<br>.123 |
|                 |          |  | 24            | 101.22<br>3.985 | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 42.40<br>1.669 | 34.92<br>1.375 | 43.15<br>1.699 | 20.34<br>.801 | 21.16<br>.833 | 3.81<br>.150 |

# 851 Series



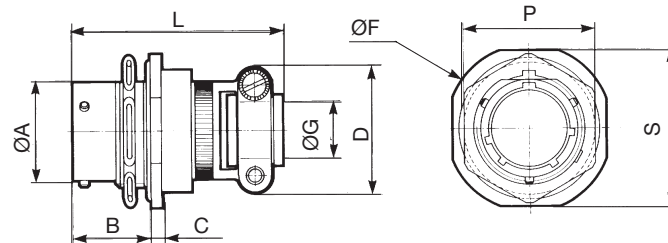
## Jam nut receptacle with backnut

|        |                                          |               |                |                |                |               |              |                |                |                |                |
|--------|------------------------------------------|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|
| solder | HE 301 B 07 E<br>MS 3114 E               | shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | F<br>Max       | P<br>Max       | S<br>Max       |
| 07 E   |                                          |               | solder         | crimp          |                |               |              |                |                |                |                |
| crimp  | HE 301 B 07 R<br>MS 3124 E<br>VG 95328 D | 08            | 34.10<br>1.343 | 33.50<br>1.319 | 12.03<br>.474  | 17.90<br>.705 | 2.64<br>.104 | 18.50<br>.728  | 26.94<br>1.061 | 19.29<br>.759  | 23.94<br>.943  |
| 07 R   |                                          | 10            | 34.10<br>1.343 | 33.50<br>1.319 | 15.01<br>.591  | 17.90<br>.705 | 2.64<br>.104 | 21.70<br>.854  | 30.14<br>1.187 | 22.38<br>.881  | 26.94<br>1.061 |
|        |                                          | 12            | 34.10<br>1.343 | 33.50<br>1.319 | 19.07<br>.751  | 17.90<br>.705 | 2.64<br>.104 | 24.90<br>.980  | 34.94<br>1.376 | 27.13<br>1.068 | 31.74<br>1.250 |
|        |                                          | 14            | 34.10<br>1.343 | 33.50<br>1.319 | 22.25<br>.876  | 17.90<br>.705 | 2.64<br>.104 | 28.10<br>1.106 | 38.04<br>1.498 | 30.33<br>1.194 | 34.94<br>1.376 |
|        |                                          | 16            | 34.10<br>1.343 | 33.50<br>1.319 | 25.42<br>1.001 | 17.90<br>.705 | 2.64<br>.104 | 31.20<br>1.228 | 41.24<br>1.624 | 33.48<br>1.318 | 38.24<br>1.506 |
|        |                                          | 18            | 34.10<br>1.343 | 33.50<br>1.319 | 28.60<br>1.126 | 17.90<br>.705 | 2.64<br>.104 | 34.40<br>1.354 | 44.44<br>1.750 | 36.68<br>1.444 | 41.34<br>1.628 |
|        |                                          | 20            | 39.30<br>1.547 | 37.90<br>1.492 | 31.77<br>1.251 | 22.45<br>.884 | 3.44<br>.135 | 38.30<br>1.508 | 49.14<br>1.935 | 39.83<br>1.568 | 46.04<br>1.813 |
|        |                                          | 22            | 39.30<br>1.547 | 37.90<br>1.492 | 34.95<br>1.376 | 22.45<br>.884 | 3.44<br>.135 | 41.50<br>1.634 | 52.24<br>2.057 | 43.03<br>1.694 | 49.24<br>1.939 |
|        |                                          | 24            | 39.30<br>1.547 | 37.90<br>1.492 | 38.12<br>1.501 | 23.30<br>.917 | 3.44<br>.135 | 44.70<br>1.760 | 55.54<br>2.187 | 46.18<br>1.818 | 52.74<br>2.076 |



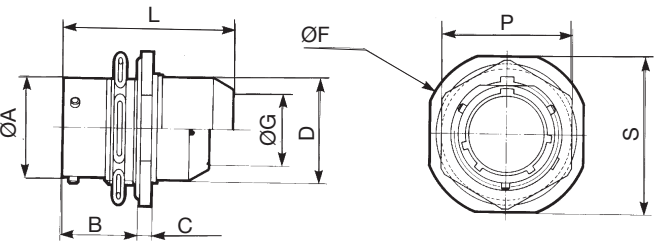
## Jam nut receptacle with straight cable clamp

|        |                                           |               |                |                |                |               |              |                |                |               |                |                |
|--------|-------------------------------------------|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|---------------|----------------|----------------|
| solder | HE 301 B 07 EC<br>MS 3114 F               | shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | F<br>Max       | G             | P<br>Max       | S<br>Max       |
| 07 EC  |                                           |               | solder         | crimp          |                |               |              |                |                |               |                |                |
| crimp  | HE 301 B 07 AC<br>MS 3124 F<br>VG 95328 E | 08            | 49.31<br>1.941 | 49.10<br>1.933 | 12.03<br>.474  | 17.90<br>.705 | 2.64<br>.104 | 19.90<br>.783  | 26.94<br>1.061 | 3.50<br>.138  | 19.29<br>.759  | 23.94<br>.943  |
| 07 AC  |                                           | 10            | 49.31<br>1.941 | 49.10<br>1.933 | 15.01<br>.591  | 17.90<br>.705 | 2.64<br>.104 | 21.50<br>.846  | 30.14<br>1.187 | 5.00<br>.197  | 22.38<br>.881  | 26.94<br>1.061 |
| 07 RC  |                                           | 12            | 49.17<br>1.936 | 49.10<br>1.933 | 19.07<br>.751  | 17.90<br>.705 | 2.64<br>.104 | 25.00<br>.984  | 34.94<br>1.376 | 8.20<br>.323  | 27.13<br>1.068 | 31.74<br>1.250 |
|        |                                           | 14            | 49.17<br>1.936 | 49.10<br>1.933 | 22.25<br>.876  | 17.90<br>.705 | 2.64<br>.104 | 27.80<br>1.094 | 38.04<br>1.498 | 10.00<br>.394 | 30.33<br>1.194 | 34.94<br>1.376 |
|        |                                           | 16            | 52.34<br>2.061 | 52.20<br>2.055 | 25.42<br>1.001 | 17.90<br>.705 | 2.64<br>.104 | 29.40<br>1.157 | 41.24<br>1.624 | 13.00<br>.512 | 33.48<br>1.318 | 38.24<br>1.506 |
|        |                                           | 18            | 53.22<br>2.095 | 53.10<br>2.091 | 28.60<br>1.126 | 17.90<br>.705 | 2.64<br>.104 | 35.30<br>1.390 | 44.44<br>1.750 | 16.00<br>.630 | 36.68<br>1.444 | 41.34<br>1.628 |
|        |                                           | 20            | 58.10<br>2.287 | 58.00<br>2.283 | 31.77<br>1.251 | 22.45<br>.884 | 3.44<br>.135 | 35.30<br>1.390 | 49.14<br>1.935 | 16.00<br>.630 | 39.83<br>1.568 | 46.04<br>1.813 |
|        |                                           | 22            | 58.10<br>2.287 | 58.00<br>2.283 | 34.95<br>1.376 | 22.45<br>.884 | 3.44<br>.135 | 41.10<br>1.618 | 52.24<br>2.057 | 19.30<br>.760 | 43.03<br>1.694 | 49.24<br>1.939 |
|        |                                           | 24            | 58.10<br>2.287 | 58.00<br>2.283 | 38.12<br>1.501 | 23.30<br>.917 | 3.44<br>.135 | 42.40<br>1.669 | 55.54<br>2.187 | 20.60<br>.811 | 46.18<br>1.818 | 52.74<br>2.076 |



## Jam nut receptacle with straight backshell for potting

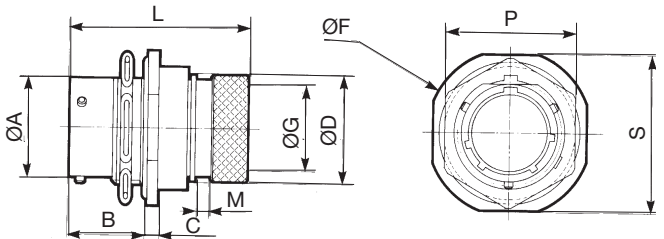
|        |                             |               |                |                |                |               |              |                |                |                |                |                |
|--------|-----------------------------|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|----------------|
| solder | HE 301 B 07 P<br>MS 3114 P  | shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | F<br>Max       | G<br>Max       | P<br>Max       | S<br>Max       |
| 07 P   |                             |               | solder         | crimp          |                |               |              |                |                |                |                |                |
| crimp  | HE 301 B 07 RP<br>MS 3124 P | 08            | 34.30<br>1.350 | 39.80<br>1.567 | 12.03<br>.474  | 17.90<br>.705 | 2.64<br>.104 | 15.34<br>.604  | 26.94<br>1.061 | 10.46<br>.412  | 19.29<br>.759  | 23.94<br>.943  |
| 07 RP  |                             | 10            | 34.30<br>1.350 | 39.80<br>1.567 | 15.01<br>.591  | 17.90<br>.705 | 2.64<br>.104 | 17.70<br>.697  | 30.14<br>1.187 | 13.55<br>.533  | 22.38<br>.881  | 26.94<br>1.061 |
|        |                             | 12            | 34.30<br>1.350 | 39.80<br>1.567 | 19.07<br>.751  | 17.90<br>.705 | 2.64<br>.104 | 21.69<br>.854  | 34.94<br>1.376 | 13.96<br>.550  | 27.13<br>1.068 | 31.74<br>1.250 |
|        |                             | 14            | 34.30<br>1.350 | 39.80<br>1.567 | 22.25<br>.876  | 17.90<br>.705 | 2.64<br>.104 | 23.90<br>.941  | 38.04<br>1.498 | 17.42<br>.686  | 30.33<br>1.194 | 34.94<br>1.376 |
|        |                             | 16            | 34.30<br>1.350 | 39.80<br>1.567 | 25.42<br>1.001 | 17.90<br>.705 | 2.64<br>.104 | 27.00<br>1.063 | 41.24<br>1.624 | 20.56<br>.809  | 33.48<br>1.318 | 38.24<br>1.506 |
|        |                             | 18            | 34.10<br>1.343 | 41.80<br>1.646 | 28.60<br>1.126 | 17.90<br>.705 | 2.64<br>.104 | 30.50<br>1.201 | 44.44<br>1.750 | 23.66<br>.931  | 36.68<br>1.444 | 41.34<br>1.628 |
|        |                             | 20            | 42.25<br>1.663 | 49.92<br>1.965 | 31.77<br>1.251 | 22.45<br>.884 | 3.44<br>.135 | 33.65<br>1.325 | 49.14<br>1.935 | 23.92<br>.942  | 39.83<br>1.568 | 46.04<br>1.813 |
|        |                             | 22            | 42.25<br>1.663 | 49.92<br>1.965 | 34.95<br>1.376 | 22.45<br>.884 | 3.44<br>.135 | 37.10<br>1.461 | 52.24<br>2.057 | 25.52<br>1.005 | 43.03<br>1.694 | 49.24<br>1.939 |
|        |                             | 24            | 43.26<br>1.703 | 51.30<br>2.020 | 38.12<br>1.501 | 23.30<br>.917 | 3.44<br>.135 | 40.00<br>1.575 | 55.54<br>2.187 | 32.00<br>1.260 | 46.18<br>1.818 | 52.74<br>2.076 |



# 851 Series



## Jam nut receptacle with straight backshell for heatshrink sleeving

|                |  |  |            |                                                                                   |
|----------------|--|--|------------|-----------------------------------------------------------------------------------|
| solder<br>07 T |  |  | VG 95328 S |  |
| crimp<br>07 RT |  |  |            |                                                                                   |

| shell<br>size | L Max          |                | A              | B<br>Max      | C<br>Max     | D<br>Max       | F<br>Max       | G Max          |                | M<br>Max     | P<br>Max       | S<br>Max       |
|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------|
|               | solder         | crimp          |                |               |              |                |                | solder         | crimp          |              |                |                |
| 08            | 42.60<br>1.677 | 41.50<br>1.634 | 12.03<br>.474  | 17.90<br>.705 | 2.64<br>.104 | 15.35<br>.604  | 26.94<br>1.061 | 7.20<br>.283   | 6.70<br>.264   | 3.70<br>.146 | 19.29<br>.759  | 23.94<br>.943  |
| 10            | 42.60<br>1.677 | 41.50<br>1.634 | 15.01<br>.591  | 17.90<br>.705 | 2.64<br>.104 | 18.15<br>.715  | 30.14<br>1.187 | 10.20<br>.402  | 9.40<br>.370   | 3.70<br>.146 | 22.38<br>.881  | 26.94<br>1.061 |
| 12            | 42.60<br>1.677 | 41.50<br>1.634 | 19.07<br>.751  | 17.90<br>.705 | 2.64<br>.104 | 23.45<br>.923  | 34.94<br>1.376 | 13.20<br>.520  | 11.95<br>.470  | 3.70<br>.146 | 27.13<br>1.068 | 31.74<br>1.250 |
| 14            | 42.60<br>1.677 | 41.50<br>1.634 | 22.25<br>.876  | 17.90<br>.705 | 2.64<br>.104 | 24.25<br>.955  | 38.04<br>1.498 | 16.10<br>.634  | 15.15<br>.596  | 3.70<br>.146 | 30.33<br>1.194 | 34.94<br>1.376 |
| 16            | 44.40<br>1.748 | 43.80<br>1.724 | 25.42<br>1.001 | 17.90<br>.705 | 2.64<br>.104 | 29.55<br>1.163 | 41.24<br>1.624 | 19.25<br>.758  | 18.05<br>.711  | 3.70<br>.146 | 33.48<br>1.318 | 38.24<br>1.506 |
| 18            | 44.40<br>1.748 | 43.80<br>1.724 | 28.60<br>1.126 | 17.90<br>.705 | 2.64<br>.104 | 31.75<br>1.250 | 44.44<br>1.750 | 21.30<br>.839  | 19.95<br>.785  | 3.70<br>.146 | 36.68<br>1.444 | 41.24<br>1.624 |
| 20            | 50.90<br>2.004 | 49.80<br>1.961 | 31.77<br>1.251 | 22.45<br>.884 | 3.44<br>.135 | 35.85<br>1.411 | 49.14<br>1.935 | 24.40<br>.961  | 23.05<br>.907  | 3.70<br>.146 | 39.83<br>1.568 | 46.04<br>1.813 |
| 22            | 50.90<br>2.004 | 49.80<br>1.961 | 34.95<br>1.376 | 22.45<br>.884 | 3.44<br>.135 | 38.20<br>1.504 | 52.24<br>2.057 | 27.50<br>1.083 | 25.55<br>1.006 | 3.70<br>.146 | 43.03<br>1.694 | 49.24<br>1.939 |
| 24            | 49.60<br>1.953 | 48.50<br>1.909 | 38.12<br>1.501 | 23.30<br>.917 | 3.44<br>.135 | 41.30<br>1.626 | 55.54<br>2.187 | 30.60<br>1.205 | 28.65<br>1.128 | 3.70<br>.146 | 46.18<br>1.818 | 52.74<br>2.076 |

## Jam nut receptacle with removable straight backshell for screen termination and heatshrink sleeving (38 and 42 suffix)

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## Jam nut receptacle with removable straight backshell for screen termination and heatshrink sleeving

|                |            |
|----------------|------------|
| solder<br>07 G |            |
| crimp<br>07 RG | VG 95328 T |

Technical drawing of a jam nut receptacle with removable straight backshell for screen termination and heatshrink sleeving. The drawing includes a side view and a top view. Dimensions are labeled: L (length), ØA (outer diameter of the backshell), B (backshell length), C (backshell thickness), M (backshell width), ØG (inner diameter of the backshell), ØD (outer diameter of the receptacle), ØF (inner diameter of the receptacle), P (width of the receptacle), and S (height of the receptacle).

| shell size | L Max<br>solder<br>crimp | A              | B Max         | C Max        | D Max          | F Max          | G Max          | M Max        | P Max          | S Max          |
|------------|--------------------------|----------------|---------------|--------------|----------------|----------------|----------------|--------------|----------------|----------------|
| 08         | 62.20<br>2.449           | 12.03<br>.474  | 11.90<br>.669 | 2.64<br>.104 | 16.30<br>.642  | 26.94<br>1.061 | 7.45<br>.293   | 3.60<br>.142 | 19.29<br>.759  | 23.94<br>.943  |
| 10         | 62.20<br>2.449           | 15.01<br>.591  | 17.90<br>.705 | 2.64<br>.104 | 18.30<br>.720  | 30.14<br>1.187 | 10.30<br>.406  | 3.60<br>.142 | 22.38<br>.881  | 26.94<br>1.061 |
| 12         | 62.20<br>2.449           | 19.07<br>.751  | 17.90<br>.705 | 2.64<br>.104 | 22.30<br>.878  | 34.94<br>1.376 | 13.20<br>.520  | 3.60<br>.142 | 27.13<br>1.068 | 31.74<br>1.250 |
| 14         | 62.40<br>2.457           | 22.25<br>.876  | 17.90<br>.705 | 2.64<br>.104 | 25.30<br>.996  | 38.04<br>1.498 | 16.50<br>.650  | 3.60<br>.142 | 30.33<br>1.194 | 34.94<br>1.376 |
| 16         | 62.40<br>2.457           | 25.42<br>1.001 | 17.90<br>.705 | 2.64<br>.104 | 28.30<br>1.114 | 41.24<br>1.624 | 19.35<br>.762  | 3.60<br>.142 | 33.48<br>1.318 | 38.24<br>1.506 |
| 18         | 62.40<br>2.457           | 28.60<br>1.126 | 17.90<br>.705 | 2.64<br>.104 | 32.30<br>1.272 | 44.44<br>1.750 | 21.60<br>.850  | 3.60<br>.142 | 36.68<br>1.444 | 41.34<br>1.628 |
| 20         | 67.50<br>2.657           | 31.77<br>1.251 | 22.45<br>.884 | 3.44<br>.135 | 34.30<br>1.350 | 49.14<br>1.935 | 24.80<br>.976  | 3.60<br>.142 | 39.83<br>1.568 | 46.04<br>1.813 |
| 22         | 67.50<br>2.657           | 34.95<br>1.376 | 22.45<br>.884 | 3.44<br>.135 | 38.30<br>1.508 | 52.24<br>2.057 | 27.90<br>1.098 | 3.60<br>.142 | 43.03<br>1.694 | 49.24<br>1.939 |
| 24         | 67.50<br>2.657           | 38.12<br>1.501 | 23.30<br>.917 | 3.44<br>.135 | 41.30<br>1.626 | 55.54<br>2.187 | 31.00<br>1.220 | 3.60<br>.142 | 46.18<br>1.818 | 52.74<br>2.076 |

# 851 Series



## Square flange receptacle not accepting backshell

|        |                                          |            |                |                |                |               |              |                |                |                |              |
|--------|------------------------------------------|------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|--------------|
| solder | HE 301 B 02 E<br>MS 3112 E<br>VG 95328 H | shell size | L Max          |                | A              | B Max         | C Max        | D Max          | E              | F Max          | J            |
|        |                                          |            | solder         | crimp          |                |               |              |                |                |                |              |
| crimp  | HE 301 B 02 R<br>MS 3122 E<br>VG 95328 C | 08         | 25.18<br>.991  | 32.35<br>1.274 | 12.03<br>.474  | 11.70<br>.461 | 1.32<br>.052 | 10.84<br>.427  | 15.09<br>.594  | 20.99<br>.826  | 3.13<br>.123 |
|        |                                          | 10         | 25.10<br>.988  | 32.35<br>1.274 | 15.01<br>.591  | 11.70<br>.461 | 1.32<br>.052 | 13.99<br>.551  | 18.26<br>.719  | 24.19<br>.952  | 3.13<br>.123 |
|        |                                          | 12         | 25.10<br>.988  | 32.35<br>1.274 | 19.07<br>.751  | 11.70<br>.461 | 1.32<br>.052 | 17.37<br>.684  | 20.62<br>.812  | 26.54<br>1.045 | 3.13<br>.123 |
|        |                                          | 14         | 25.10<br>.988  | 32.35<br>1.274 | 22.25<br>.876  | 11.70<br>.461 | 1.32<br>.052 | 20.57<br>.810  | 23.00<br>.906  | 28.89<br>1.137 | 3.13<br>.123 |
|        |                                          | 16         | 25.10<br>.988  | 32.35<br>1.274 | 25.42<br>1.001 | 11.70<br>.461 | 1.32<br>.052 | 23.72<br>.934  | 24.61<br>.969  | 31.29<br>1.232 | 3.13<br>.123 |
|        |                                          | 18         | 25.10<br>.988  | 32.35<br>1.274 | 28.60<br>1.126 | 11.70<br>.461 | 1.32<br>.052 | 26.69<br>1.051 | 26.97<br>1.062 | 33.69<br>1.326 | 3.13<br>.123 |
|        |                                          | 20         | 26.67<br>1.050 | 33.95<br>1.337 | 31.77<br>1.251 | 14.35<br>.565 | 2.15<br>.085 | 29.89<br>1.177 | 29.36<br>1.156 | 36.89<br>1.452 | 3.13<br>.123 |
|        |                                          | 22         | 26.67<br>1.050 | 33.95<br>1.337 | 34.95<br>1.376 | 14.35<br>.565 | 2.15<br>.085 | 33.04<br>1.301 | 31.75<br>1.250 | 39.99<br>1.574 | 3.13<br>.123 |
|        |                                          | 24         | 26.67<br>1.050 | 33.95<br>1.337 | 38.12<br>1.501 | 15.20<br>.598 | 2.15<br>.085 | 36.24<br>1.427 | 34.92<br>1.375 | 43.15<br>1.699 | 3.81<br>.150 |
|        |                                          |            |                |                |                |               |              |                |                |                |              |

## Jam nut receptacle not accepting backshell

solder

07 A

HE 301 B 07 A

| shell size | L Max          | A              | B Max         | C Max        | F Max          | P Max          | S Max          |
|------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|
|            | solder         |                |               |              |                |                |                |
| 08         | 25.18<br>.991  | 12.03<br>.474  | 17.90<br>.705 | 2.64<br>.104 | 26.94<br>1.061 | 19.29<br>.759  | 23.94<br>.943  |
| 10         | 25.10<br>.988  | 15.01<br>.591  | 17.90<br>.705 | 2.64<br>.104 | 30.14<br>1.187 | 22.38<br>.881  | 26.94<br>1.061 |
| 12         | 25.10<br>.988  | 19.07<br>.751  | 17.90<br>.705 | 2.64<br>.104 | 34.94<br>1.376 | 27.13<br>1.068 | 31.74<br>1.250 |
| 14         | 25.10<br>.988  | 22.25<br>.876  | 17.90<br>.705 | 2.64<br>.104 | 38.04<br>1.498 | 30.33<br>1.194 | 34.94<br>1.376 |
| 16         | 25.10<br>.988  | 25.42<br>1.001 | 17.90<br>.705 | 2.64<br>.104 | 41.24<br>1.624 | 33.48<br>1.318 | 38.24<br>1.506 |
| 18         | 25.10<br>.988  | 28.60<br>1.126 | 17.90<br>.705 | 2.64<br>.104 | 44.44<br>1.750 | 36.68<br>1.444 | 41.34<br>1.628 |
| 20         | 26.67<br>1.050 | 31.77<br>1.251 | 22.45<br>.884 | 3.44<br>.135 | 49.14<br>1.935 | 39.83<br>1.568 | 46.04<br>1.813 |
| 22         | 26.67<br>1.050 | 34.95<br>1.376 | 22.45<br>.884 | 3.44<br>.135 | 52.24<br>2.057 | 43.03<br>1.694 | 49.24<br>1.939 |
| 24         | 26.67<br>1.050 | 38.12<br>1.501 | 23.30<br>.917 | 3.44<br>.135 | 55.54<br>2.187 | 46.18<br>1.818 | 52.74<br>2.076 |

## Cable connecting receptacle with backnut

|        |                            |
|--------|----------------------------|
| solder | HE 301 B 01 E<br>MS 3111 E |
| crimp  | HE 301 B 01 R<br>MS 3121 E |

| shell<br>size | L Max          |                | A              | B Max         | C Max        | D Max          | F Max          | P Max          |
|---------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|----------------|
|               | solder         | crimp          |                |               |              |                |                |                |
| 08            | 32.70<br>1.287 | 32.00<br>1.260 | 12.03<br>.474  | 10.60<br>.417 | 2.10<br>.083 | 13.50<br>.531  | 24.24<br>.954  | 20.99<br>.826  |
| 10            | 32.70<br>1.287 | 32.00<br>1.260 | 15.01<br>.591  | 10.60<br>.417 | 2.10<br>.083 | 16.70<br>.657  | 27.44<br>1.080 | 24.19<br>.952  |
| 12            | 32.70<br>1.287 | 32.00<br>1.260 | 19.07<br>.751  | 10.60<br>.417 | 2.10<br>.083 | 19.90<br>.783  | 29.79<br>1.173 | 26.54<br>1.045 |
| 14            | 32.70<br>1.287 | 32.00<br>1.260 | 22.25<br>.876  | 10.60<br>.417 | 2.10<br>.083 | 23.40<br>.921  | 32.10<br>1.264 | 28.89<br>1.137 |
| 16            | 32.70<br>1.287 | 32.00<br>1.260 | 25.42<br>1.001 | 10.60<br>.417 | 2.10<br>.083 | 26.60<br>1.047 | 34.59<br>1.362 | 31.29<br>1.232 |
| 18            | 32.70<br>1.287 | 32.00<br>1.260 | 28.60<br>1.126 | 10.60<br>.417 | 2.10<br>.083 | 29.50<br>1.161 | 36.94<br>1.454 | 33.69<br>1.326 |
| 20            | 34.50<br>1.358 | 33.40<br>1.315 | 31.77<br>1.251 | 13.85<br>.545 | 2.65<br>.104 | 32.70<br>1.287 | 40.14<br>1.580 | 36.89<br>1.452 |
| 22            | 34.50<br>1.358 | 33.40<br>1.315 | 34.95<br>1.376 | 13.85<br>.545 | 2.65<br>.104 | 36.00<br>1.417 | 43.24<br>1.702 | 40.00<br>1.575 |
| 24            | 34.50<br>1.358 | 33.40<br>1.315 | 38.12<br>1.501 | 14.70<br>.579 | 2.65<br>.104 | 39.10<br>1.539 | 46.44<br>1.828 | 43.29<br>1.704 |

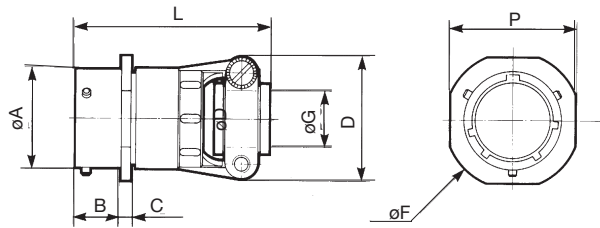
Technical drawing of a cable connecting receptacle with backnut. The drawing shows two views: a side view and a front view. The side view shows the overall length L, the diameter of the receptacle body øA, the diameter of the backnut øD, and the dimensions B and C. The front view shows the diameter of the receptacle body øF and the diameter of the backnut P. There are four holes of diameter J in the backnut.

# 851 Series



## Cable connecting receptacle with straight cable clamp

| solder |                             | shell size | L Max          |                | A              | B Max         | C Max        | D Max          | F Max          | G Max         | P Max          |
|--------|-----------------------------|------------|----------------|----------------|----------------|---------------|--------------|----------------|----------------|---------------|----------------|
|        |                             |            | solder         | crimp          |                |               |              |                |                |               |                |
| 01 EC  | HE 301 B 01 EC<br>MS 3111 F | 08         | 48.00<br>1.890 | 47.30<br>1.862 | 12.03<br>.474  | 10.60<br>.417 | 2.10<br>.083 | 19.90<br>.783  | 24.24<br>.954  | 3.50<br>.138  | 20.99<br>.826  |
| 01 AC  | HE 301 B 01 AC              |            |                |                |                |               |              |                |                |               |                |
| crimp  | HE 301 B 01 RC<br>MS 3121 F | 10         | 48.00<br>1.890 | 47.30<br>1.862 | 15.01<br>.591  | 10.60<br>.417 | 2.10<br>.083 | 21.50<br>.846  | 27.44<br>1.080 | 5.00<br>.197  | 24.19<br>.952  |
| 01 RC  |                             | 12         | 48.00<br>1.890 | 47.30<br>1.862 | 19.07<br>.751  | 10.60<br>.417 | 2.10<br>.083 | 25.00<br>.984  | 29.79<br>1.173 | 8.20<br>.323  | 26.54<br>1.045 |
|        |                             | 14         | 48.00<br>1.890 | 47.30<br>1.862 | 22.25<br>.876  | 10.60<br>.417 | 2.10<br>.083 | 27.80<br>1.094 | 32.10<br>1.264 | 10.00<br>.394 | 28.89<br>1.137 |
|        |                             | 16         | 51.00<br>2.008 | 50.50<br>1.988 | 25.42<br>1.001 | 10.60<br>.417 | 2.10<br>.083 | 29.40<br>1.157 | 34.59<br>1.362 | 13.00<br>.512 | 31.29<br>1.232 |
|        |                             | 18         | 51.00<br>2.008 | 50.50<br>1.988 | 28.60<br>1.126 | 10.60<br>.417 | 2.10<br>.083 | 35.30<br>1.390 | 36.94<br>1.454 | 16.00<br>.630 | 33.69<br>1.326 |
|        |                             | 20         | 53.00<br>2.087 | 51.50<br>2.028 | 31.77<br>1.251 | 13.85<br>.545 | 2.65<br>.104 | 35.30<br>1.390 | 40.14<br>1.580 | 16.00<br>.630 | 36.89<br>1.452 |
|        |                             | 22         | 53.00<br>2.087 | 51.50<br>2.028 | 34.95<br>1.376 | 13.85<br>.545 | 2.65<br>.104 | 41.10<br>1.618 | 43.24<br>1.702 | 19.30<br>.760 | 40.00<br>1.575 |
|        |                             | 24         | 53.00<br>2.087 | 51.50<br>2.028 | 38.12<br>1.501 | 14.70<br>.579 | 2.65<br>.104 | 42.40<br>1.669 | 46.44<br>1.828 | 20.60<br>.811 | 43.29<br>1.704 |

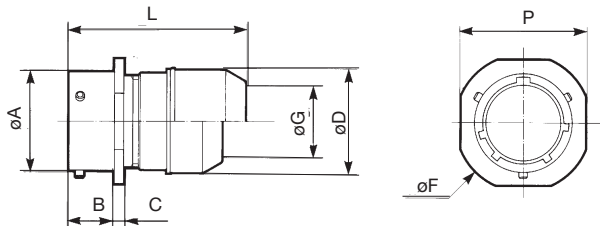


## Cable connecting receptacle with straight backshell for potting

|        |                             |
|--------|-----------------------------|
| solder | HE 301 B 01 P<br>MS 3111 P  |
| crimp  | HE 301 B 01 RP<br>MS 3121 P |
| 01 P   |                             |
| 01 RP  |                             |

Technical drawing of a crimp sleeve. The side view shows dimensions:  $\varnothing A$  (outer diameter),  $L$  (length),  $\varnothing G$  (inner diameter),  $\varnothing D$  (outer diameter of the crimped part),  $B$  (crimp length), and  $C$  (crimp length). The end view shows dimensions:  $P$  (width) and  $\varnothing F$  (inner diameter).

| shell size | L Max  |       | A     | B Max | C Max | D Max | F Max | G Max | P Max |
|------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | solder | crimp |       |       |       |       |       |       |       |
| 08         | 36.20  | 41.70 | 12.03 | 10.60 | 2.10  | 15.34 | 24.24 | 10.46 | 20.99 |
|            | 1.425  | 1.642 | .474  | .417  | .083  | .604  | .954  | .412  | .826  |
| 10         | 36.20  | 41.70 | 15.01 | 10.60 | 2.10  | 17.70 | 27.44 | 13.55 | 24.19 |
|            | 1.425  | 1.642 | .591  | .417  | .083  | .697  | 1.080 | .533  | .952  |
| 12         | 36.20  | 41.70 | 19.07 | 10.60 | 2.10  | 21.69 | 29.79 | 13.96 | 26.54 |
|            | 1.425  | 1.642 | .751  | .417  | .083  | .854  | 1.173 | .550  | 1.045 |
| 14         | 36.20  | 41.70 | 22.25 | 10.60 | 2.10  | 23.90 | 32.10 | 17.42 | 28.89 |
|            | 1.425  | 1.642 | .876  | .417  | .083  | .941  | 1.264 | .686  | 1.137 |
| 16         | 36.20  | 41.70 | 25.42 | 10.60 | 2.10  | 27.00 | 34.59 | 20.56 | 31.29 |
|            | 1.425  | 1.642 | 1.001 | .417  | .083  | 1.063 | 1.362 | .809  | 1.232 |
| 18         | 36.91  | 44.46 | 28.60 | 10.60 | 2.10  | 30.50 | 36.94 | 23.66 | 33.69 |
|            | 1.453  | 1.750 | 1.126 | .417  | .083  | 1.201 | 1.454 | .931  | 1.326 |
| 20         | 43.80  | 50.93 | 31.77 | 13.85 | 2.65  | 33.65 | 40.15 | 23.92 | 36.89 |
|            | 1.724  | 2.005 | 1.251 | .545  | .104  | 1.325 | 1.581 | .942  | 1.452 |
| 22         | 43.80  | 50.93 | 34.95 | 13.85 | 2.65  | 37.10 | 42.24 | 25.52 | 40.00 |
|            | 1.724  | 2.005 | 1.376 | .545  | .104  | 1.461 | 1.663 | 1.005 | 1.575 |
| 24         | 43.80  | 50.93 | 38.12 | 14.70 | 2.65  | 40.00 | 46.44 | 32.00 | 43.29 |
|            | 1.724  | 2.005 | 1.501 | .579  | .104  | 1.575 | 1.828 | 1.260 | 1.704 |

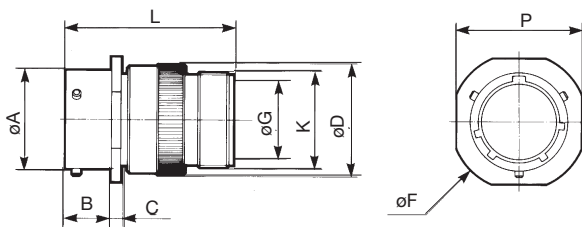


## Cable connecting receptacle with straight adapter

|        |                |
|--------|----------------|
| solder | HE 301 B 01 A  |
| crimp  | HE 301 B 01 RA |
| 01 A   | HE 301 B 01 A  |
| 01 RA  | HE 301 B 01 RA |

Technical drawing of a crimp connector. The side view shows dimensions L (total length), øA (outer diameter of the barrel), øG (inner diameter of the barrel), K (barrel length), øD (outer diameter of the crimp), B (crimp length), and C (crimp offset). The end view shows dimension P (crimp width) and øF (crimp diameter).

| shell size | L Max<br>solder<br>crimp | A              | B Max         | C Max        | D Max          | F Max          | G Max          | K<br>Threading<br>UNEF 2 A | P Max          |
|------------|--------------------------|----------------|---------------|--------------|----------------|----------------|----------------|----------------------------|----------------|
| 08         | 41.00<br>1.614           | 12.03<br>.474  | 10.60<br>.417 | 2.10<br>.083 | 14.50<br>.571  | 24.24<br>.954  | 9.10<br>.358   | 1/2 28                     | 20.99<br>.826  |
| 10         | 41.00<br>1.614           | 15.01<br>.591  | 10.60<br>.417 | 2.10<br>.083 | 18.70<br>.736  | 27.44<br>1.080 | 12.08<br>.476  | 5/8 24                     | 24.19<br>.952  |
| 12         | 41.00<br>1.614           | 19.07<br>.751  | 10.60<br>.417 | 2.10<br>.083 | 21.70<br>.854  | 29.79<br>1.173 | 15.25<br>.600  | 3/4 20                     | 26.54<br>1.045 |
| 14         | 41.00<br>1.614           | 22.25<br>.876  | 10.60<br>.417 | 2.10<br>.083 | 25.10<br>.988  | 32.10<br>1.264 | 18.15<br>.715  | 7/8 20                     | 28.89<br>1.137 |
| 16         | 41.00<br>1.614           | 25.42<br>1.001 | 10.60<br>.417 | 2.10<br>.083 | 28.13<br>1.107 | 34.59<br>1.362 | 21.32<br>.839  | 1-20                       | 31.29<br>1.232 |
| 18         | 41.00<br>1.614           | 28.60<br>1.126 | 10.60<br>.417 | 2.10<br>.083 | 31.38<br>1.235 | 36.94<br>1.454 | 24.32<br>.957  | 1-3/16 18                  | 33.69<br>1.326 |
| 20         | 44.00<br>1.732           | 31.77<br>1.251 | 13.85<br>.545 | 2.65<br>.104 | 34.30<br>1.350 | 40.15<br>1.581 | 26.73<br>1.052 | 1-3/16 18                  | 36.89<br>1.452 |
| 22         | 44.00<br>1.732           | 34.95<br>1.376 | 13.85<br>.545 | 2.65<br>.104 | 37.60<br>1.480 | 42.24<br>1.663 | 30.67<br>1.207 | 1-7/16 18                  | 40.00<br>1.575 |
| 24         | 44.00<br>1.732           | 38.12<br>1.501 | 14.70<br>.579 | 2.65<br>.104 | 40.70<br>1.602 | 46.44<br>1.828 | 33.08<br>1.302 | 1-7/16 18                  | 43.29<br>1.704 |







# 851 Series



## Cable connecting receptacle with removable straight backshell for screen termination and heatshrink sleeving

|                |  |
|----------------|--|
| solder<br>01 G |  |
| crimp<br>01 RG |  |

| shell size | L Max<br>solder<br>crimp | A              | B Max         | C Max        | D Max          | F Max          | G Max          | M Max        | P Max          |
|------------|--------------------------|----------------|---------------|--------------|----------------|----------------|----------------|--------------|----------------|
| 08         | 54.00<br>2.126           | 12.03<br>.474  | 10.60<br>.417 | 2.10<br>.083 | 16.30<br>.642  | 24.24<br>.954  | 7.45<br>.293   | 3.60<br>.142 | 20.99<br>.826  |
| 10         | 54.00<br>2.126           | 15.01<br>.591  | 10.60<br>.417 | 2.10<br>.083 | 18.30<br>.720  | 27.44<br>1.080 | 10.30<br>.406  | 3.60<br>.142 | 24.19<br>.952  |
| 12         | 54.00<br>2.126           | 19.07<br>.751  | 10.60<br>.417 | 2.10<br>.083 | 22.30<br>.878  | 29.79<br>1.173 | 13.20<br>.520  | 3.60<br>.142 | 26.54<br>1.045 |
| 14         | 54.00<br>2.126           | 22.25<br>.876  | 10.60<br>.417 | 2.10<br>.083 | 25.30<br>.996  | 32.10<br>1.264 | 16.50<br>.650  | 3.60<br>.142 | 28.89<br>1.137 |
| 16         | 54.00<br>2.126           | 25.42<br>1.001 | 10.60<br>.417 | 2.10<br>.083 | 28.30<br>1.114 | 34.59<br>1.362 | 19.35<br>.762  | 3.60<br>.142 | 31.29<br>1.232 |
| 18         | 54.00<br>2.126           | 28.60<br>1.126 | 10.60<br>.417 | 2.10<br>.083 | 32.30<br>1.272 | 36.94<br>1.454 | 21.60<br>.850  | 3.60<br>.142 | 33.69<br>1.326 |
| 20         | 59.30<br>2.335           | 31.77<br>1.251 | 13.85<br>.545 | 2.65<br>.104 | 34.30<br>1.350 | 40.15<br>1.581 | 24.80<br>.976  | 3.60<br>.142 | 36.89<br>1.452 |
| 22         | 59.30<br>2.335           | 34.95<br>1.376 | 13.85<br>.545 | 2.65<br>.104 | 38.30<br>1.508 | 42.24<br>1.663 | 27.90<br>1.098 | 3.60<br>.142 | 40.00<br>1.575 |
| 24         | 59.30<br>2.335           | 38.12<br>1.501 | 14.70<br>.579 | 2.65<br>.104 | 41.30<br>1.626 | 46.44<br>1.828 | 31.00<br>1.220 | 3.60<br>.142 | 43.29<br>1.704 |

Technical drawing of a cable connecting receptacle with removable straight backshell. The drawing includes a side view and a top view. The side view shows the following dimensions: L (total length), A (shell diameter), B (flange thickness), C (backshell thickness), M (tail length), D (tail diameter), and G (tail ID). The top view shows dimensions: P (flange outer diameter) and F (flange ID). A callout F points to the backshell.

## Cable connecting receptacle with straight sealing gland backshell

solder

01 J

HE 301 B 01 J

| shell size | L Max          | A              | B Max         | C Max        | D Max          | F Max          | G             |               | P Max          |
|------------|----------------|----------------|---------------|--------------|----------------|----------------|---------------|---------------|----------------|
|            | solder         |                |               |              |                |                | min           | Max           |                |
| 08         | 47.60<br>1.874 | 12.03<br>.474  | 10.60<br>.417 | 2.10<br>.083 | 14.40<br>.567  | 24.24<br>.954  | 5.02<br>.198  | 5.84<br>.230  | 20.99<br>.826  |
| 10         | 47.60<br>1.874 | 15.01<br>.591  | 10.60<br>.417 | 2.10<br>.083 | 17.60<br>.693  | 27.44<br>1.080 | 5.94<br>.234  | 6.76<br>.266  | 24.19<br>.952  |
| 12         | 48.70<br>1.917 | 19.07<br>.751  | 10.60<br>.417 | 2.10<br>.083 | 21.10<br>.831  | 29.79<br>1.173 | 9.34<br>.368  | 10.16<br>.400 | 26.54<br>1.045 |
| 14         | 53.50<br>2.106 | 22.25<br>.876  | 10.60<br>.417 | 2.10<br>.083 | 24.40<br>.961  | 32.10<br>1.264 | 11.32<br>.446 | 12.14<br>.478 | 28.89<br>1.137 |
| 16         | 59.00<br>2.323 | 25.42<br>1.001 | 10.60<br>.417 | 2.10<br>.083 | 27.60<br>1.087 | 34.59<br>1.362 | 14.73<br>.580 | 15.55<br>.612 | 31.29<br>1.232 |
| 18         | 65.00<br>2.559 | 28.60<br>1.126 | 10.60<br>.417 | 2.10<br>.083 | 30.80<br>1.213 | 36.94<br>1.454 | 16.00<br>.630 | 16.82<br>.662 | 33.69<br>1.326 |
| 20         | 79.10<br>3.114 | 31.77<br>1.251 | 13.85<br>.545 | 2.65<br>.104 | 34.10<br>1.343 | 40.15<br>1.581 | 16.89<br>.665 | 17.71<br>.697 | 36.89<br>1.452 |
| 22         | 80.00<br>3.150 | 34.95<br>1.376 | 13.85<br>.545 | 2.65<br>.104 | 37.30<br>1.469 | 42.24<br>1.663 | 17.78<br>.700 | 18.60<br>.732 | 40.00<br>1.575 |
| 24         | 90.00<br>3.543 | 38.12<br>1.501 | 14.70<br>.579 | 2.65<br>.104 | 40.50<br>1.594 | 46.44<br>1.828 | 20.34<br>.801 | 21.16<br>.833 | 43.29<br>1.704 |

## Cable connecting receptacle with straight sealing gland and cable clamp backshell

solder

01 JC

MS 3111 J

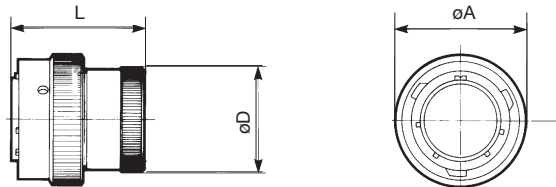
| shell size | L Max           | A              | B Max         | C Max        | D Max          | F Max          | G             |               | P Max          |
|------------|-----------------|----------------|---------------|--------------|----------------|----------------|---------------|---------------|----------------|
|            | solder          |                |               |              |                |                | min           | Max           |                |
| 08         | 57.68<br>2.271  | 12.03<br>.474  | 10.60<br>.417 | 2.10<br>.083 | 19.90<br>.783  | 24.24<br>.954  | 5.02<br>.198  | 5.84<br>.230  | 20.99<br>.826  |
| 10         | 57.68<br>2.271  | 15.01<br>.591  | 10.60<br>.417 | 2.10<br>.083 | 21.50<br>.846  | 27.44<br>1.080 | 5.94<br>.234  | 6.76<br>.266  | 24.19<br>.952  |
| 12         | 61.24<br>2.411  | 19.07<br>.751  | 10.60<br>.417 | 2.10<br>.083 | 25.00<br>.984  | 29.79<br>1.173 | 9.34<br>.368  | 10.16<br>.400 | 26.54<br>1.045 |
| 14         | 66.01<br>2.599  | 22.25<br>.876  | 10.60<br>.417 | 2.10<br>.083 | 27.80<br>1.094 | 32.10<br>1.264 | 11.32<br>.446 | 12.14<br>.478 | 28.89<br>1.137 |
| 16         | 74.75<br>2.943  | 25.42<br>1.001 | 10.60<br>.417 | 2.10<br>.083 | 29.40<br>1.157 | 34.59<br>1.362 | 14.73<br>.580 | 15.50<br>.610 | 31.29<br>1.232 |
| 18         | 80.57<br>3.172  | 28.60<br>1.126 | 10.60<br>.417 | 2.10<br>.083 | 35.30<br>1.390 | 36.94<br>1.454 | 16.00<br>.630 | 16.82<br>.662 | 33.69<br>1.326 |
| 20         | 91.69<br>3.610  | 31.77<br>1.251 | 13.85<br>.545 | 2.65<br>.104 | 35.30<br>1.390 | 40.15<br>1.581 | 16.89<br>.665 | 17.71<br>.697 | 36.89<br>1.452 |
| 22         | 95.66<br>3.766  | 34.95<br>1.376 | 13.85<br>.545 | 2.65<br>.104 | 41.10<br>1.618 | 42.24<br>1.663 | 17.78<br>.700 | 18.60<br>.732 | 40.00<br>1.575 |
| 24         | 101.22<br>3.985 | 38.12<br>1.501 | 14.70<br>.579 | 2.65<br>.104 | 42.40<br>1.669 | 46.44<br>1.828 | 20.34<br>.801 | 21.16<br>.833 | 43.29<br>1.704 |

# 851 Series



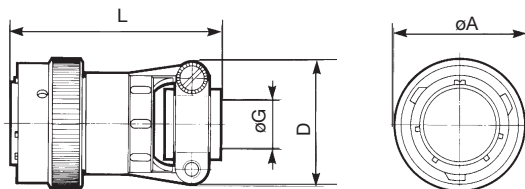
## Plug with backnut

|        |                            |            |                |                |                |                |
|--------|----------------------------|------------|----------------|----------------|----------------|----------------|
| solder | HE 301 B 06 E<br>MS 3116 E | shell size | L Max          |                | A Max          | D Max          |
| 06 E   |                            |            | solder         | crimp          |                |                |
| crimp  | HE 301 B 06 R<br>MS 3126 E | 08         | 32.54<br>1.281 | 32.00<br>1.260 | 19.05<br>.750  | 13.50<br>.531  |
| 06 R   |                            | 10         | 32.54<br>1.281 | 32.00<br>1.260 | 21.80<br>.858  | 16.70<br>.657  |
|        |                            | 12         | 32.54<br>1.281 | 32.00<br>1.260 | 26.15<br>1.030 | 19.90<br>.783  |
|        |                            | 14         | 32.54<br>1.281 | 32.00<br>1.260 | 29.35<br>1.156 | 23.40<br>.921  |
|        |                            | 16         | 32.54<br>1.281 | 32.00<br>1.260 | 32.50<br>1.280 | 26.60<br>1.047 |
|        |                            | 18         | 32.54<br>1.281 | 32.00<br>1.260 | 35.30<br>1.390 | 29.60<br>1.165 |
|        |                            | 20         | 33.30<br>1.311 | 32.10<br>1.264 | 38.85<br>1.530 | 32.70<br>1.287 |
|        |                            | 22         | 33.30<br>1.311 | 32.10<br>1.264 | 42.05<br>1.656 | 36.00<br>1.417 |
|        |                            | 24         | 33.30<br>1.311 | 32.10<br>1.264 | 45.10<br>1.776 | 39.10<br>1.539 |



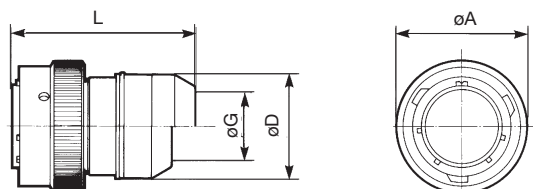
## Plug with straight cable clamp

|        |                                           |            |                |                |                |                |               |
|--------|-------------------------------------------|------------|----------------|----------------|----------------|----------------|---------------|
| solder | HE 301 B 06 EC<br>MS 3116 F               | shell size | L Max          |                | A Max          | D Max          | G             |
| 06 EC  |                                           |            | solder         | crimp          |                |                |               |
| crimp  | HE 301 B 06 RC<br>MS 3126 F<br>VG 95328 K | 08         | 48.00<br>1.890 | 47.30<br>1.862 | 19.05<br>.750  | 19.90<br>.783  | 3.50<br>.138  |
| 06 AC  | HE 301 B 06 AC                            | 10         | 48.00<br>1.890 | 47.30<br>1.862 | 21.80<br>.858  | 21.50<br>.846  | 5.00<br>.197  |
| 06 RC  |                                           | 12         | 48.00<br>1.890 | 47.30<br>1.862 | 26.15<br>1.030 | 25.00<br>.984  | 8.20<br>.323  |
|        |                                           | 14         | 48.00<br>1.890 | 47.30<br>1.862 | 29.35<br>1.156 | 27.80<br>1.094 | 10.00<br>.394 |
|        |                                           | 16         | 51.00<br>2.008 | 50.50<br>1.988 | 32.50<br>1.280 | 29.40<br>1.157 | 13.00<br>.512 |
|        |                                           | 18         | 51.00<br>2.008 | 50.50<br>1.988 | 35.30<br>1.390 | 35.30<br>1.390 | 16.00<br>.630 |
|        |                                           | 20         | 52.00<br>2.047 | 50.20<br>1.976 | 38.85<br>1.530 | 35.30<br>1.390 | 16.00<br>.630 |
|        |                                           | 22         | 52.00<br>2.047 | 50.20<br>1.976 | 42.05<br>1.656 | 41.10<br>1.618 | 19.30<br>.760 |
|        |                                           | 24         | 52.00<br>2.047 | 50.20<br>1.976 | 45.10<br>1.776 | 42.40<br>1.669 | 20.60<br>.811 |



## Plug with straight backshell for potting

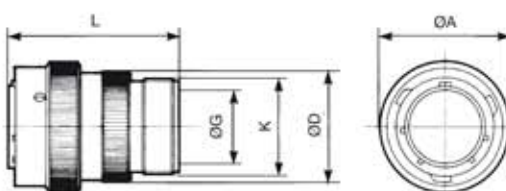
|        |                             |            |                |                |                |                |                |
|--------|-----------------------------|------------|----------------|----------------|----------------|----------------|----------------|
| solder | HE 301 B 06 P<br>MS 3116 P  | shell size | L Max          |                | A Max          | D Max          | G Max          |
| 06 P   |                             |            | solder         | crimp          |                |                |                |
| crimp  | HE 301 B 06 RP<br>MS 3126 P | 08         | 36.20<br>1.425 | 42.10<br>1.657 | 19.05<br>.750  | 15.34<br>.604  | 10.46<br>.412  |
| 06 RP  |                             | 10         | 36.20<br>1.425 | 42.10<br>1.657 | 21.80<br>.858  | 17.70<br>.697  | 13.55<br>.533  |
|        |                             | 12         | 36.20<br>1.425 | 42.10<br>1.657 | 26.15<br>1.030 | 21.69<br>.854  | 13.96<br>.550  |
|        |                             | 14         | 36.20<br>1.425 | 42.10<br>1.657 | 29.35<br>1.156 | 23.90<br>.941  | 17.42<br>.686  |
|        |                             | 16         | 36.20<br>1.425 | 42.10<br>1.657 | 32.50<br>1.280 | 27.00<br>1.063 | 20.56<br>.809  |
|        |                             | 18         | 37.70<br>1.484 | 45.40<br>1.787 | 35.30<br>1.390 | 30.50<br>1.201 | 23.66<br>.931  |
|        |                             | 20         | 42.40<br>1.669 | 50.00<br>1.969 | 38.85<br>1.530 | 33.65<br>1.325 | 23.92<br>.942  |
|        |                             | 22         | 42.40<br>1.669 | 50.00<br>1.969 | 42.05<br>1.656 | 37.10<br>1.461 | 25.52<br>1.005 |
|        |                             | 24         | 42.85<br>1.687 | 50.00<br>1.969 | 45.10<br>1.776 | 40.00<br>1.575 | 32.00<br>1.260 |



# 851 Series

## Plug with straight adapter

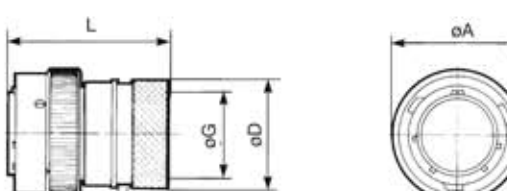
|                |                |
|----------------|----------------|
| solder<br>06 A | HE 301 B 06 A  |
| crimp<br>06 RA | HE 301 B 06 RA |

| shell size | L Max<br>solder/crimp | A<br>Max       | D<br>Max       | G<br>Max       | K<br>threading UNEF 2 A |
|------------|-----------------------|----------------|----------------|----------------|-------------------------|
| 08         | 41.00<br>1.614        | 19.05<br>.750  | 14.50<br>.571  | 9.10<br>.358   | 1/2 28                  |
| 10         | 41.00<br>1.614        | 21.80<br>.858  | 18.70<br>.736  | 12.08<br>.476  | 5/8 24                  |
| 12         | 41.00<br>1.614        | 26.15<br>1.030 | 21.70<br>.854  | 15.25<br>.600  | 3/4 20                  |
| 14         | 41.00<br>1.614        | 29.35<br>1.156 | 25.10<br>.988  | 18.15<br>.715  | 7/8 20                  |
| 16         | 41.00<br>1.614        | 32.50<br>1.280 | 28.13<br>1.107 | 21.32<br>.839  | 1-20                    |
| 18         | 41.00<br>1.614        | 35.30<br>1.390 | 31.38<br>1.235 | 24.32<br>.957  | 1-3/16 18               |
| 20         | 43.30<br>1.705        | 38.85<br>1.530 | 34.30<br>1.350 | 26.73<br>1.052 | 1-3/16 18               |
| 22         | 43.30<br>1.705        | 42.05<br>1.656 | 37.60<br>1.480 | 30.67<br>1.207 | 1-7/16 18               |
| 24         | 43.50<br>1.713        | 45.10<br>1.776 | 40.70<br>1.602 | 33.08<br>1.302 | 1-7/16 18               |

## Plug with straight backshell for heatshrink sleeving

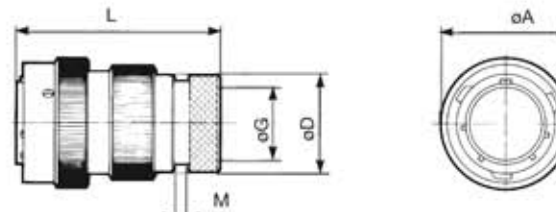
|                |            |
|----------------|------------|
| solder<br>06 T |            |
| crimp<br>06 RT | VG 95328 J |



| shell<br>size | L Max          |                | A              | D<br>Max       | G Max          |                | M<br>Max     |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
|               | solder         | crimp          |                |                | solder         | crimp          |              |
| 08            | 36.70<br>1.445 | 36.00<br>1.417 | 19.05<br>.750  | 15.35<br>.604  | 7.20<br>.283   | 6.70<br>.264   | 3.70<br>.146 |
| 10            | 36.70<br>1.445 | 36.00<br>1.417 | 21.80<br>.858  | 18.15<br>.715  | 10.20<br>.402  | 9.40<br>.370   | 3.70<br>.146 |
| 12            | 36.70<br>1.445 | 36.00<br>1.417 | 26.15<br>1.030 | 23.45<br>.923  | 13.20<br>.520  | 11.95<br>.470  | 3.70<br>.146 |
| 14            | 36.70<br>1.445 | 36.00<br>1.417 | 29.35<br>1.156 | 24.25<br>.955  | 16.10<br>.634  | 15.15<br>.596  | 3.70<br>.146 |
| 16            | 39.00<br>1.535 | 38.30<br>1.508 | 32.50<br>1.280 | 29.55<br>1.163 | 19.25<br>.758  | 18.05<br>.711  | 3.70<br>.146 |
| 18            | 39.00<br>1.535 | 38.30<br>1.508 | 35.30<br>1.390 | 31.75<br>1.250 | 21.30<br>.839  | 19.95<br>.785  | 3.70<br>.146 |
| 20            | 44.00<br>1.732 | 42.90<br>1.689 | 38.85<br>1.530 | 35.85<br>1.411 | 24.40<br>.961  | 23.05<br>.907  | 3.70<br>.146 |
| 22            | 44.00<br>1.732 | 42.90<br>1.689 | 42.05<br>1.656 | 38.20<br>1.504 | 27.50<br>1.083 | 25.55<br>1.006 | 3.70<br>.146 |
| 24            | 42.70<br>1.681 | 41.60<br>1.638 | 45.10<br>1.776 | 41.30<br>1.626 | 30.60<br>1.205 | 28.65<br>1.128 | 3.70<br>.146 |

## Plug with removable straight backshell for heatshrink sleeving

|                |  |
|----------------|--|
| solder<br>06 M |  |
| crimp<br>06 RM |  |

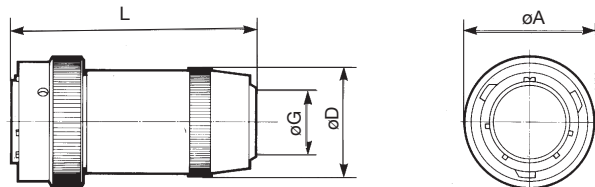
| shell size | L Max<br>solder/crimp | A<br>Max       | D<br>Max       | G<br>Max       | M<br>Max     |
|------------|-----------------------|----------------|----------------|----------------|--------------|
| 08         | 50.00<br>1.969        | 19.05<br>.750  | 13.55<br>.533  | 7.05<br>.278   | 3.50<br>.138 |
| 10         | 50.00<br>1.969        | 21.80<br>.858  | 15.35<br>.604  | 9.90<br>.390   | 3.50<br>.138 |
| 12         | 50.00<br>1.969        | 26.15<br>1.030 | 19.48<br>.767  | 12.60<br>.496  | 3.50<br>.138 |
| 14         | 50.00<br>1.969        | 29.35<br>1.156 | 21.30<br>.839  | 15.90<br>.626  | 3.50<br>.138 |
| 16         | 50.00<br>1.969        | 32.50<br>1.280 | 24.50<br>.965  | 18.95<br>.746  | 3.50<br>.138 |
| 18         | 50.00<br>1.969        | 35.30<br>1.390 | 26.45<br>1.041 | 20.90<br>.823  | 3.50<br>.138 |
| 20         | 52.00<br>2.047        | 38.85<br>1.530 | 30.73<br>1.210 | 23.70<br>.933  | 3.50<br>.138 |
| 22         | 52.00<br>2.047        | 42.05<br>1.656 | 34.24<br>1.348 | 26.60<br>1.047 | 3.50<br>.138 |
| 24         | 52.00<br>2.047        | 45.10<br>1.776 | 36.47<br>1.436 | 29.30<br>1.154 | 3.50<br>.138 |

# 851 Series



## Plug with straight sealing gland backshell

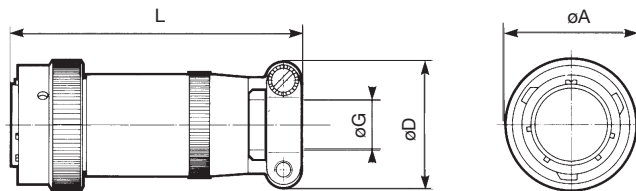
solder  
06 J | HE 301 B 06 J



| shell size | L Max          | A Max          | D Max          | G             |               |
|------------|----------------|----------------|----------------|---------------|---------------|
|            | solder         |                |                | min           | Max           |
| 08         | 47.60<br>1.874 | 19.05<br>.750  | 14.40<br>.567  | 5.02<br>.198  | 5.84<br>.230  |
| 10         | 47.60<br>1.874 | 21.80<br>.858  | 17.60<br>.693  | 5.94<br>.234  | 6.76<br>.266  |
| 12         | 49.20<br>1.937 | 26.15<br>1.030 | 21.10<br>.831  | 9.34<br>.368  | 10.16<br>.400 |
| 14         | 54.00<br>2.126 | 29.35<br>1.156 | 24.40<br>.961  | 11.32<br>.446 | 12.14<br>.478 |
| 16         | 59.60<br>2.346 | 32.50<br>1.280 | 27.60<br>1.087 | 14.73<br>.580 | 15.55<br>.612 |
| 18         | 65.60<br>2.583 | 35.30<br>1.390 | 30.80<br>1.213 | 16.00<br>.630 | 16.80<br>.661 |
| 20         | 78.00<br>3.071 | 38.85<br>1.530 | 34.10<br>1.343 | 16.89<br>.665 | 17.71<br>.697 |
| 22         | 79.50<br>3.130 | 42.05<br>1.656 | 37.30<br>1.469 | 17.78<br>.700 | 18.60<br>.732 |
| 24         | 90.00<br>3.543 | 45.10<br>1.776 | 40.50<br>1.594 | 20.34<br>.801 | 21.16<br>.833 |

## Plug with straight sealing gland and cable clamp backshell

solder  
06 JC | MS 3116 J

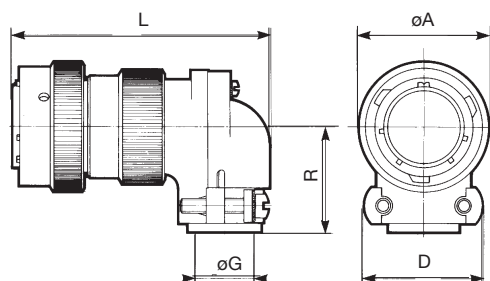


| shell size | L Max           | A Max          | D Max          | G             |               |
|------------|-----------------|----------------|----------------|---------------|---------------|
|            | solder          |                |                | min           | Max           |
| 08         | 57.68<br>2.271  | 19.05<br>.750  | 19.90<br>.783  | 5.02<br>.198  | 5.84<br>.230  |
| 10         | 57.68<br>2.271  | 21.80<br>.858  | 21.50<br>.846  | 5.94<br>.234  | 6.76<br>.266  |
| 12         | 61.24<br>2.411  | 26.15<br>1.030 | 25.00<br>.984  | 9.34<br>.368  | 10.16<br>.400 |
| 14         | 66.01<br>2.599  | 29.35<br>1.156 | 27.80<br>1.094 | 11.32<br>.446 | 12.14<br>.478 |
| 16         | 74.75<br>2.943  | 32.50<br>1.280 | 29.40<br>1.157 | 14.73<br>.580 | 15.50<br>.610 |
| 18         | 80.57<br>3.172  | 35.30<br>1.390 | 35.30<br>1.390 | 16.00<br>.630 | 16.82<br>.662 |
| 20         | 91.69<br>3.610  | 38.85<br>1.530 | 35.30<br>1.390 | 16.89<br>.665 | 17.71<br>.697 |
| 22         | 95.66<br>3.766  | 42.05<br>1.656 | 41.10<br>1.618 | 17.78<br>.700 | 18.60<br>.732 |
| 24         | 101.22<br>3.985 | 45.10<br>1.776 | 42.40<br>1.669 | 20.34<br>.801 | 21.16<br>.833 |

## Plug with elbow cable clamp backshell

solder  
08 EC | HE 301 B 08 EC

crimp  
08 RC | HE 301 B 08 RC



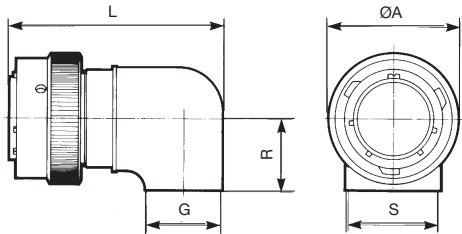
| shell size | L Max          | A Max          | D Max          | G             | R Max          |
|------------|----------------|----------------|----------------|---------------|----------------|
|            | solder/crimp   |                |                |               |                |
| 08         | 50.10<br>1.972 | 19.05<br>.750  | 19.70<br>.776  | 3.50<br>.138  | 16.00<br>.630  |
| 10         | 52.60<br>2.071 | 21.80<br>.858  | 21.20<br>.835  | 5.00<br>.197  | 18.00<br>.709  |
| 12         | 54.90<br>2.161 | 26.15<br>1.030 | 24.20<br>.953  | 8.20<br>.323  | 19.50<br>.768  |
| 14         | 58.50<br>2.303 | 29.35<br>1.156 | 27.50<br>1.083 | 10.00<br>.394 | 22.00<br>.866  |
| 16         | 60.80<br>2.394 | 32.50<br>1.280 | 29.10<br>1.146 | 13.00<br>.512 | 23.50<br>.925  |
| 18         | 65.00<br>2.559 | 35.30<br>1.390 | 35.70<br>1.406 | 16.00<br>.630 | 25.00<br>.984  |
| 20         | 69.10<br>2.720 | 38.85<br>1.530 | 35.70<br>1.406 | 16.00<br>.630 | 26.50<br>1.043 |
| 22         | 71.00<br>2.795 | 42.05<br>1.656 | 39.70<br>1.563 | 19.30<br>.760 | 28.00<br>1.102 |
| 24         | 75.50<br>2.972 | 45.10<br>1.776 | 43.50<br>1.713 | 20.60<br>.811 | 31.00<br>1.220 |

# 851 Series



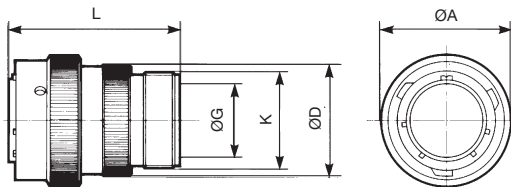
## Plug with elbow backshell for potting

|                |                |            |                |                |               |                |                |
|----------------|----------------|------------|----------------|----------------|---------------|----------------|----------------|
| solder<br>08 P | HE 301 B 08 P  | shell size | L Max          | A<br>Max       | G<br>Max      | R<br>Max       | S<br>Max       |
| crimp<br>08 RP | HE 301 B 08 RP |            | solder/crimp   |                |               |                |                |
|                |                | 08         | 40.70<br>1.602 | 19.05<br>.750  | 8.10<br>.319  | 11.70<br>.461  | 11.30<br>.445  |
|                |                | 10         | 44.90<br>1.768 | 21.80<br>.858  | 11.30<br>.445 | 14.35<br>.565  | 14.50<br>.571  |
|                |                | 12         | 46.90<br>1.846 | 26.15<br>1.030 | 13.30<br>.524 | 15.90<br>.626  | 17.70<br>.697  |
|                |                | 14         | 49.20<br>1.937 | 29.35<br>1.156 | 16.10<br>.634 | 16.30<br>.642  | 20.10<br>.791  |
|                |                | 16         | 50.60<br>1.992 | 32.50<br>1.280 | 16.90<br>.665 | 19.30<br>.760  | 22.80<br>.898  |
|                |                | 18         | 51.80<br>2.039 | 35.30<br>1.390 | 18.10<br>.713 | 20.60<br>.811  | 25.60<br>1.008 |
|                |                | 20         | 53.70<br>2.114 | 38.85<br>1.530 | 19.70<br>.776 | 21.90<br>.862  | 28.80<br>1.134 |
|                |                | 22         | 54.80<br>2.157 | 42.05<br>1.656 | 20.80<br>.819 | 23.50<br>.925  | 31.60<br>1.244 |
|                |                | 24         | 58.20<br>2.291 | 45.10<br>1.776 | 24.20<br>.953 | 30.15<br>1.187 | 35.20<br>1.386 |



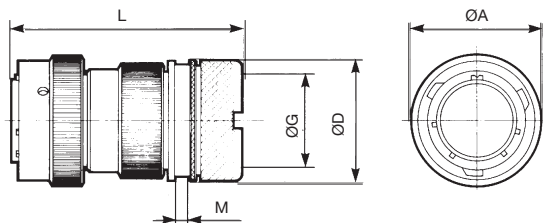
## Screened plug with straight adapter

|                |            |            |                |                |                |                |                         |
|----------------|------------|------------|----------------|----------------|----------------|----------------|-------------------------|
| solder<br>36 A |            | shell size | L Max          | A<br>Max       | D<br>Max       | G<br>Max       | K<br>threading UNEF 2 A |
| crimp<br>36 RA | VG 95328 N |            | solder/crimp   |                |                |                |                         |
|                |            | 08         | 41.00<br>1.614 | 19.05<br>.750  | 14.50<br>.571  | 9.10<br>.358   | 1/2 28                  |
|                |            | 10         | 41.00<br>1.614 | 21.80<br>.858  | 18.70<br>.736  | 12.08<br>.476  | 5/8 24                  |
|                |            | 12         | 41.00<br>1.614 | 26.15<br>1.030 | 21.70<br>.854  | 15.25<br>.600  | 3/4 20                  |
|                |            | 14         | 41.00<br>1.614 | 29.35<br>1.156 | 25.10<br>.988  | 18.15<br>.715  | 7/8 20                  |
|                |            | 16         | 41.00<br>1.614 | 32.50<br>1.280 | 28.13<br>1.107 | 21.32<br>.839  | 1-20                    |
|                |            | 18         | 41.00<br>1.614 | 35.30<br>1.390 | 31.38<br>1.235 | 24.32<br>.957  | 1-3/16 18               |
|                |            | 20         | 43.30<br>1.705 | 38.85<br>1.530 | 34.30<br>1.350 | 26.73<br>1.052 | 1-3/16 18               |
|                |            | 22         | 43.30<br>1.705 | 42.05<br>1.656 | 37.60<br>1.480 | 30.67<br>1.207 | 1-7/16 18               |
|                |            | 24         | 43.50<br>1.713 | 45.10<br>1.776 | 40.70<br>1.602 | 33.08<br>1.302 | 1-7/16 18               |



## Screened plug with removable straight backshell for screen termination and heatshrink sleeving (38 and 42 suffix)

|                |  |            |                |                |                |                |              |
|----------------|--|------------|----------------|----------------|----------------|----------------|--------------|
| solder<br>36 T |  | shell size | L Max          | A<br>Max       | D<br>Max       | G<br>Max       | M<br>Max     |
| crimp<br>36 RT |  |            | solder/crimp   |                |                |                |              |
|                |  | 08         | 51.60<br>2.031 | 19.05<br>.750  | 18.25<br>.719  | 7.45<br>.293   | 3.70<br>.146 |
|                |  | 10         | 51.60<br>2.031 | 21.80<br>.858  | 20.25<br>.797  | 9.00<br>.354   | 3.70<br>.146 |
|                |  | 12         | 51.60<br>2.031 | 26.15<br>1.030 | 24.75<br>.974  | 13.30<br>.524  | 3.70<br>.146 |
|                |  | 14         | 51.60<br>2.031 | 29.35<br>1.156 | 27.75<br>1.093 | 16.50<br>.650  | 3.70<br>.146 |
|                |  | 16         | 51.60<br>2.031 | 32.50<br>1.280 | 30.05<br>1.183 | 18.50<br>.728  | 3.70<br>.146 |
|                |  | 18         | 52.00<br>2.047 | 35.30<br>1.390 | 34.15<br>1.344 | 21.90<br>.862  | 3.70<br>.146 |
|                |  | 20         | 53.90<br>2.122 | 38.85<br>1.530 | 37.25<br>1.467 | 25.10<br>.988  | 3.70<br>.146 |
|                |  | 22         | 53.90<br>2.122 | 42.05<br>1.656 | 40.45<br>1.593 | 28.20<br>1.110 | 3.70<br>.146 |
|                |  | 24         | 53.90<br>2.122 | 45.10<br>1.776 | 43.65<br>1.719 | 31.40<br>1.236 | 3.70<br>.146 |

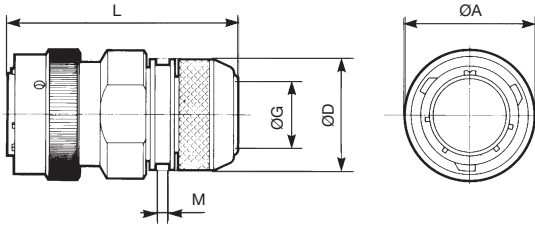


# 851 Series



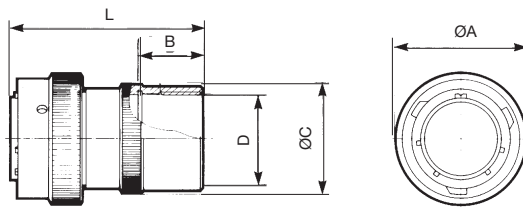
## Screened plug with removable straight backshell for screen termination and heatshrink sleeving

|                |            |            |                |                |                |                |              |
|----------------|------------|------------|----------------|----------------|----------------|----------------|--------------|
| solder<br>36 G |            | shell size | L Max          | A<br>Max       | D<br>Max       | G<br>Max       | M<br>Max     |
| crimp<br>36 RG | VG 95328 M |            | solder/crimp   |                |                |                |              |
|                |            | 08         | 54.00<br>2.126 | 19.05<br>.750  | 16.30<br>.642  | 7.45<br>.293   | 3.60<br>.142 |
|                |            | 10         | 54.00<br>2.126 | 21.80<br>.858  | 18.30<br>.720  | 10.30<br>.406  | 3.60<br>.142 |
|                |            | 12         | 54.00<br>2.126 | 26.15<br>1.030 | 22.30<br>.878  | 13.20<br>.520  | 3.60<br>.142 |
|                |            | 14         | 54.00<br>2.126 | 29.35<br>1.156 | 25.30<br>.996  | 16.50<br>.650  | 3.60<br>.142 |
|                |            | 16         | 54.00<br>2.126 | 32.50<br>1.280 | 28.30<br>1.114 | 19.35<br>.762  | 3.60<br>.142 |
|                |            | 18         | 54.00<br>2.126 | 35.30<br>1.390 | 32.30<br>1.272 | 21.60<br>.850  | 3.60<br>.142 |
|                |            | 20         | 58.00<br>2.283 | 38.85<br>1.530 | 34.30<br>1.350 | 24.80<br>.976  | 3.60<br>.142 |
|                |            | 22         | 58.00<br>2.283 | 42.05<br>1.656 | 38.30<br>1.508 | 27.90<br>1.098 | 3.60<br>.142 |
|                |            | 24         | 58.00<br>2.283 | 45.10<br>1.776 | 41.30<br>1.626 | 31.00<br>1.220 | 3.60<br>.142 |



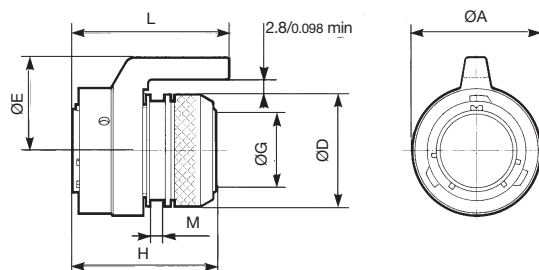
## Plug with straight adapter for electrical pitch access

|                |  |            |                |                |                |                |                   |
|----------------|--|------------|----------------|----------------|----------------|----------------|-------------------|
| solder<br>06 Z |  | shell size | L Max          | A<br>Max       | B<br>Max       | C<br>Max       | D<br>threading PE |
| crimp<br>06 RZ |  |            | solder/crimp   |                |                |                |                   |
|                |  | 08         | -              | -              | -              | -              | -                 |
|                |  | 10         | -              | -              | -              | -              | -                 |
|                |  | 12         | 43.00<br>1.693 | 26.15<br>1.030 | 9.00<br>.354   | 24.80<br>.976  | 11                |
|                |  | 14         | 45.00<br>1.772 | 29.35<br>1.156 | 11.00<br>.433  | 28.80<br>1.134 | 16                |
|                |  | 16         | 45.00<br>1.772 | 32.50<br>1.280 | 11.00<br>.433  | 30.80<br>1.213 | 16                |
|                |  | 18         | 46.00<br>1.811 | 35.30<br>1.390 | 12.00<br>.472  | 40.80<br>1.606 | 21                |
|                |  | 20         | 46.50<br>1.831 | 38.85<br>1.530 | 12.00<br>.472  | 40.80<br>1.606 | 21                |
|                |  | 22         | 46.50<br>1.831 | 42.05<br>1.656 | 12.00<br>.472  | 40.80<br>1.606 | 21                |
|                |  | 24         | 65.50<br>2.579 | 45.10<br>1.776 | 31.40<br>1.236 | 45.00<br>1.772 | 29                |



## Screened plug with lock finger and short backshell for screen termination and heatshrink sleeving

|                |            |            |                |                |                |                |               |               |              |
|----------------|------------|------------|----------------|----------------|----------------|----------------|---------------|---------------|--------------|
| solder<br>76 U |            | shell size | L Max          | A<br>Max       | D<br>Max       | H<br>Max       | G<br>Max      | E<br>Max      | M<br>Max     |
| crimp<br>76 RU | VG 95328 U |            | solder/crimp   |                |                |                |               |               |              |
|                |            | 08         | -              | -              | -              | -              | -             | -             | -            |
|                |            | 10         | -              | -              | -              | -              | -             | -             | -            |
|                |            | 12         | 35.60<br>1.402 | 25.00<br>.984  | 22.50<br>.886  | 32.00<br>1.260 | 13.20<br>.520 | 19.50<br>.768 | 3.70<br>.146 |
|                |            | 14         | 35.60<br>1.402 | 29.00<br>1.142 | 25.50<br>1.004 | 32.00<br>1.260 | 16.10<br>.634 | 21.00<br>.827 | 3.70<br>.146 |
|                |            | 16         | 35.60<br>1.402 | 32.00<br>1.260 | 28.50<br>1.122 | 32.00<br>1.260 | 19.25<br>.758 | 22.50<br>.886 | 3.70<br>.146 |
|                |            | 18         | -              | -              | -              | -              | -             | -             | -            |
|                |            | 20         | -              | -              | -              | -              | -             | -             | -            |
|                |            | 22         | -              | -              | -              | -              | -             | -             | -            |
|                |            | 24         | -              | -              | -              | -              | -             | -             | -            |



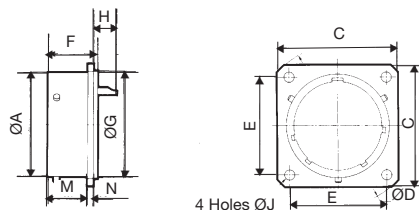


# 851 Series

## Hermetic connectors

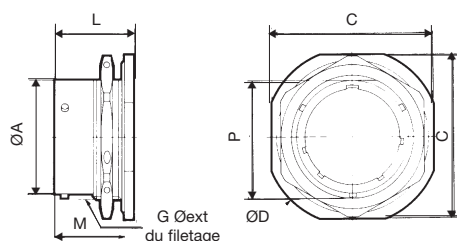


square flange receptacle  
02 H | HE 301 B 02 H



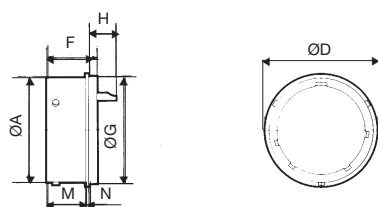
| shell size | A              | C Max          | D Max          | E              | F             | G              | H Max        | J            | M Max         | N Max        |
|------------|----------------|----------------|----------------|----------------|---------------|----------------|--------------|--------------|---------------|--------------|
| 08         | 12.03<br>.474  | 21.42<br>.843  | 27.09<br>1.067 | 15.09<br>.594  | 13.84<br>.545 | 14.27<br>.562  | 6.97<br>.274 | 3.13<br>.123 | 11.24<br>.443 | 1.67<br>.066 |
| 10         | 15.01<br>.591  | 24.62<br>.969  | 31.87<br>1.255 | 18.26<br>.719  | 13.84<br>.545 | 17.06<br>.672  | 6.97<br>.274 | 3.13<br>.123 | 11.24<br>.443 | 1.67<br>.066 |
| 12         | 19.07<br>.751  | 26.98<br>1.062 | 35.04<br>1.380 | 20.62<br>.812  | 13.84<br>.545 | 19.85<br>.781  | 6.97<br>.274 | 3.13<br>.123 | 11.24<br>.443 | 1.67<br>.066 |
| 14         | 22.25<br>.876  | 29.36<br>1.156 | 38.22<br>1.505 | 23.00<br>.906  | 13.84<br>.545 | 23.00<br>.906  | 6.97<br>.274 | 3.13<br>.123 | 11.24<br>.443 | 1.67<br>.066 |
| 16         | 25.42<br>1.001 | 31.73<br>1.249 | 41.39<br>1.630 | 24.61<br>.969  | 13.84<br>.545 | 26.18<br>1.031 | 6.97<br>.274 | 3.13<br>.123 | 11.24<br>.443 | 1.67<br>.066 |
| 18         | 28.60<br>1.126 | 34.12<br>1.343 | 44.57<br>1.755 | 26.97<br>1.062 | 13.84<br>.545 | 29.36<br>1.156 | 6.97<br>.274 | 3.13<br>.123 | 11.24<br>.443 | 1.67<br>.066 |
| 20         | 31.77<br>1.251 | 37.20<br>1.465 | 47.74<br>1.880 | 29.36<br>1.156 | 15.42<br>.607 | 31.74<br>1.250 | 6.99<br>.275 | 3.13<br>.123 | 12.00<br>.472 | 2.48<br>.098 |
| 22         | 34.95<br>1.376 | 40.47<br>1.593 | 50.92<br>2.005 | 31.75<br>1.250 | 16.23<br>.639 | 34.92<br>1.375 | 6.99<br>.275 | 3.13<br>.123 | 12.00<br>.472 | 2.48<br>.098 |
| 24         | 38.12<br>1.501 | 43.66<br>1.719 | 55.69<br>2.193 | 34.92<br>1.375 | 17.04<br>.671 | 38.10<br>1.500 | 6.19<br>.244 | 3.81<br>.150 | 12.81<br>.504 | 2.48<br>.098 |

jam nut receptacle  
07 H | HE 301 B 07 H  
MS 3114 H  
VG 95328 F



| shell size | A              | C Max          | D Max          | G              | L Max          | M Max         | P              |
|------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|
| 08         | 12.03<br>.474  | 24.07<br>.948  | 27.37<br>1.078 | 14.26<br>.561  | 20.53<br>.808  | 17.93<br>.706 | 13.33<br>.525  |
| 10         | 15.01<br>.591  | 27.22<br>1.072 | 30.57<br>1.204 | 17.43<br>.686  | 20.53<br>.808  | 17.93<br>.706 | 16.51<br>.650  |
| 12         | 19.07<br>.751  | 32.00<br>1.260 | 35.32<br>1.391 | 22.19<br>.874  | 20.53<br>.808  | 17.93<br>.706 | 20.63<br>.812  |
| 14         | 22.25<br>.876  | 35.17<br>1.385 | 38.50<br>1.516 | 25.36<br>.998  | 20.53<br>.808  | 17.93<br>.706 | 23.78<br>.936  |
| 16         | 25.42<br>1.001 | 38.35<br>1.510 | 41.67<br>1.641 | 28.54<br>1.124 | 20.53<br>.808  | 17.93<br>.706 | 26.93<br>1.060 |
| 18         | 28.60<br>1.126 | 41.52<br>1.635 | 44.85<br>1.766 | 31.71<br>1.248 | 20.53<br>.808  | 17.93<br>.706 | 30.10<br>1.185 |
| 20         | 31.77<br>1.251 | 46.27<br>1.822 | 49.62<br>1.954 | 34.89<br>1.374 | 26.10<br>1.028 | 22.70<br>.894 | 33.28<br>1.310 |
| 22         | 34.95<br>1.376 | 49.47<br>1.948 | 52.77<br>2.078 | 38.06<br>1.498 | 26.10<br>1.028 | 22.70<br>.894 | 36.45<br>1.435 |
| 24         | 38.12<br>1.501 | 52.62<br>2.072 | 55.97<br>2.204 | 41.24<br>1.624 | 26.93<br>1.060 | 23.54<br>.927 | 39.63<br>1.560 |

solder fixing receptacle  
IH | HE 301 B 1 H  
MS 3113 H  
VG 95328 G



| shell size | A              | D Max          | H Max        | F             | G Max          | M Max         | N Max        |
|------------|----------------|----------------|--------------|---------------|----------------|---------------|--------------|
| 08         | 12.03<br>.474  | 16.40<br>.646  | 8.19<br>.322 | 13.84<br>.545 | 14.27<br>.562  | 10.69<br>.421 | 0.76<br>.030 |
| 10         | 15.01<br>.591  | 19.40<br>.764  | 8.19<br>.322 | 13.84<br>.545 | 17.06<br>.672  | 10.69<br>.421 | 0.76<br>.030 |
| 12         | 19.07<br>.751  | 21.80<br>.858  | 8.19<br>.322 | 13.84<br>.545 | 19.83<br>.781  | 10.69<br>.421 | 0.76<br>.030 |
| 14         | 22.25<br>.876  | 25.00<br>.984  | 8.19<br>.322 | 13.84<br>.545 | 23.00<br>.906  | 10.69<br>.421 | 0.76<br>.030 |
| 16         | 25.42<br>1.001 | 28.10<br>1.106 | 8.19<br>.322 | 13.84<br>.545 | 26.18<br>1.031 | 10.69<br>.421 | 0.76<br>.030 |
| 18         | 28.60<br>1.126 | 31.30<br>1.232 | 8.19<br>.322 | 13.84<br>.545 | 29.36<br>1.156 | 10.69<br>.421 | 0.76<br>.030 |
| 20         | 31.77<br>1.251 | 33.70<br>1.327 | 8.16<br>.321 | 15.42<br>.607 | 31.74<br>1.250 | 12.32<br>.485 | 0.76<br>.030 |
| 22         | 34.95<br>1.376 | 36.90<br>1.453 | 8.16<br>.321 | 16.23<br>.639 | 34.92<br>1.375 | 12.32<br>.485 | 0.76<br>.030 |
| 24         | 38.12<br>1.501 | 40.10<br>1.579 | 7.36<br>.290 | 17.04<br>.671 | 38.10<br>1.500 | 13.12<br>.517 | 0.76<br>.030 |

# 851 Series



## Wire wrap and straight spills connectors

### Square flange receptacle type 02 E

|            |                | wire wrap version       |              |                |                |                |               |              |               |              |  |
|------------|----------------|-------------------------|--------------|----------------|----------------|----------------|---------------|--------------|---------------|--------------|--|
|            |                | straight spills version |              |                |                |                |               |              |               |              |  |
| shell size | A              | B Max                   | C Max        | Ø D Max        | E              | F Max          | H             | J            | L Max         | T            |  |
| 08         | 12.03<br>.474  | 11.70<br>.461           | 1.32<br>.052 | 10.84<br>.427  | 15.09<br>.594  | 20.99<br>.826  | 12.42<br>.489 | 3.13<br>.123 | 20.50<br>.807 | 9.46<br>.372 |  |
| 10         | 15.01<br>.591  | 11.70<br>.461           | 1.32<br>.052 | 13.99<br>.551  | 18.26<br>.719  | 24.19<br>.952  | 12.42<br>.489 | 3.13<br>.123 | 20.50<br>.807 | 9.46<br>.372 |  |
| 12         | 19.07<br>.751  | 11.70<br>.461           | 1.32<br>.052 | 17.37<br>.684  | 20.62<br>.812  | 26.54<br>1.045 | 12.42<br>.489 | 3.13<br>.123 | 20.50<br>.807 | 9.46<br>.372 |  |
| 14         | 22.25<br>.876  | 11.70<br>.461           | 1.32<br>.052 | 20.57<br>.810  | 23.00<br>.906  | 28.89<br>1.137 | 12.42<br>.489 | 3.13<br>.123 | 20.50<br>.807 | 9.46<br>.372 |  |
| 16         | 25.42<br>1.001 | 11.70<br>.461           | 1.32<br>.052 | 23.62<br>.930  | 24.61<br>.969  | 31.29<br>1.232 | 12.42<br>.489 | 3.13<br>.123 | 20.50<br>.807 | 9.46<br>.372 |  |
| 18         | 28.60<br>1.126 | 11.70<br>.461           | 1.32<br>.052 | 26.69<br>1.051 | 26.97<br>1.062 | 33.69<br>1.326 | 12.42<br>.489 | 3.13<br>.123 | 20.50<br>.807 | 9.46<br>.372 |  |
| 20         | 31.77<br>1.251 | 14.35<br>.565           | 2.15<br>.085 | 29.89<br>1.177 | 29.36<br>1.156 | 36.89<br>1.452 | 10.69<br>.421 | 3.13<br>.123 | 23.80<br>.937 | 7.76<br>.306 |  |
| 22         | 34.95<br>1.376 | 14.35<br>.565           | 2.15<br>.085 | 33.04<br>1.301 | 31.75<br>1.250 | 39.99<br>1.574 | 10.69<br>.421 | 3.13<br>.123 | 23.80<br>.937 | 7.76<br>.306 |  |
| 24         | 38.12<br>1.501 | 15.20<br>.598           | 2.15<br>.085 | 36.24<br>1.427 | 34.92<br>1.375 | 43.15<br>1.699 | 10.69<br>.421 | 3.81<br>.150 | 23.80<br>.937 | 7.76<br>.306 |  |

### Jam nut receptacle type 07 A

|            |                | wire wrap version       |              |                |               |                |                |                |              |  |
|------------|----------------|-------------------------|--------------|----------------|---------------|----------------|----------------|----------------|--------------|--|
|            |                | straight spills version |              |                |               |                |                |                |              |  |
| shell size | A              | B Max                   | C Max        | F Max          | H             | L Max          | P Max          | S Max          | T            |  |
| 08         | 12.03<br>.474  | 17.90<br>.705           | 2.64<br>.104 | 26.94<br>1.061 | 12.42<br>.489 | 20.64<br>.813  | 19.29<br>.759  | 23.94<br>.943  | 9.46<br>.372 |  |
| 10         | 15.01<br>.591  | 17.90<br>.705           | 2.64<br>.104 | 30.14<br>1.187 | 12.42<br>.489 | 20.64<br>.813  | 22.38<br>.881  | 26.95<br>1.061 | 9.46<br>.372 |  |
| 12         | 19.07<br>.751  | 17.90<br>.705           | 2.64<br>.104 | 34.94<br>1.376 | 12.42<br>.489 | 20.64<br>.813  | 27.13<br>1.068 | 31.74<br>1.250 | 9.46<br>.372 |  |
| 14         | 22.25<br>.876  | 17.90<br>.705           | 2.64<br>.104 | 38.04<br>1.498 | 12.42<br>.489 | 20.64<br>.813  | 30.33<br>1.194 | 34.94<br>1.376 | 9.46<br>.372 |  |
| 16         | 25.42<br>1.001 | 17.90<br>.705           | 2.64<br>.104 | 41.26<br>1.624 | 12.42<br>.489 | 20.64<br>.813  | 33.48<br>1.318 | 38.24<br>1.506 | 9.46<br>.372 |  |
| 18         | 28.60<br>1.126 | 17.90<br>.705           | 2.64<br>.104 | 44.44<br>1.750 | 12.42<br>.489 | 20.64<br>.813  | 36.68<br>1.444 | 41.34<br>1.628 | 9.46<br>.372 |  |
| 20         | 31.77<br>1.251 | 22.45<br>.884           | 3.44<br>.135 | 49.14<br>1.935 | 8.64<br>.340  | 25.99<br>1.023 | 39.83<br>1.568 | 46.04<br>1.813 | 8.49<br>.334 |  |
| 22         | 34.95<br>1.376 | 22.45<br>.884           | 3.44<br>.135 | 52.24<br>2.057 | 8.64<br>.340  | 25.99<br>1.023 | 43.03<br>1.694 | 49.24<br>1.939 | 8.49<br>.334 |  |
| 24         | 38.12<br>1.501 | 23.30<br>.917           | 3.44<br>.135 | 55.54<br>2.187 | 7.79<br>.307  | 26.84<br>1.057 | 46.18<br>1.818 | 52.74<br>2.076 | 7.79<br>.307 |  |

# 851 Series



## Caps

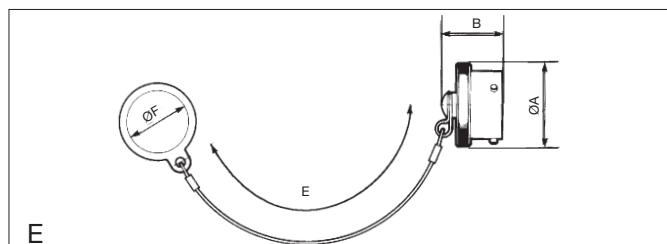
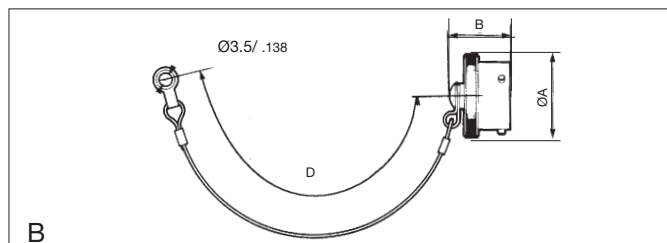
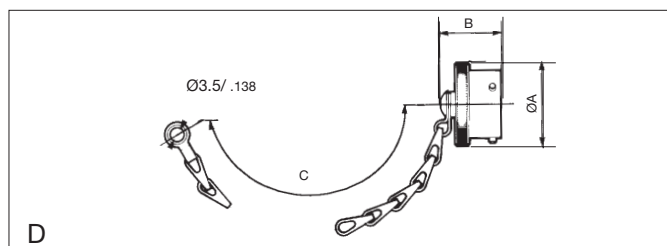
### Part numbers

| basic series                |                          |    |    |    |    |    |    |    | 8500 | 05 | ... |
|-----------------------------|--------------------------|----|----|----|----|----|----|----|------|----|-----|
| shell size                  | 8                        | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24   |    |     |
| part numbers for receptacle | 02                       | 03 | 04 | 05 | 27 | 06 | 07 | 08 | 09   |    |     |
| part numbers for plug       | 10                       | 11 | 12 | 13 | 28 | 14 | 15 | 16 | 17   |    |     |
| specification               | for cap type and plating |    |    |    |    |    |    |    |      |    |     |

### Type and plating

| Cap type                                             | receptacle cap      |               |                |        | plug cap            |               |                |        |
|------------------------------------------------------|---------------------|---------------|----------------|--------|---------------------|---------------|----------------|--------|
|                                                      | olive green cadmium | white cadmium | black anodized | nickel | olive green cadmium | white cadmium | black anodized | nickel |
| cap with chain and ring                              | D                   | 02 D          | 29 D           | 44 D   | D                   | 02 D          | 29 D           | 44 D   |
| cap with nylon cord and ring                         | B                   | 02 B          | 29 B           | 44 B   | B                   | 02 B          | 29 B           | 44 B   |
| cap with nylon cord and washer (shell 10, 12 and 14) | -                   | -             | -              | -      | E                   | -             | -              | -      |
| cap with nylon cord and washer                       | H                   | -             | -              | -      | -                   | -             | -              | -      |
| cap with chain and washer                            | J                   | -             | -              | -      | -                   | -             | -              | -      |

### Caps for plug

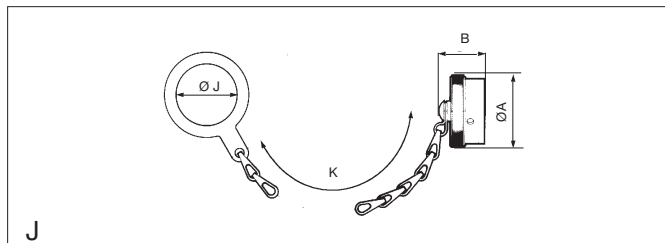
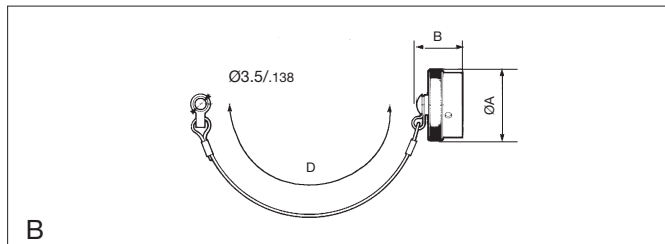
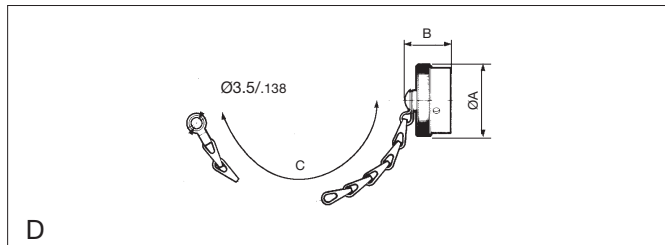


| shell size | Ø A<br>Maxi    | B<br>Maxi     | C               | D               | E               | Ø F           |
|------------|----------------|---------------|-----------------|-----------------|-----------------|---------------|
| 08         | 16.80<br>.661  | 19.84<br>.781 | 132.00<br>5.197 | 128.00<br>5.039 | -               | -             |
| 10         | 19.80<br>.780  | 19.84<br>.781 | 132.00<br>5.197 | 128.00<br>5.039 | 132.00<br>5.197 | 14.00<br>.551 |
| 12         | 23.90<br>.941  | 19.84<br>.781 | 148.00<br>5.827 | 148.00<br>5.827 | 148.00<br>5.827 | 17.60<br>.693 |
| 14         | 27.00<br>1.063 | 19.84<br>.781 | 148.00<br>5.827 | 148.00<br>5.827 | 148.00<br>5.827 | 20.80<br>.819 |
| 16         | 30.20<br>1.189 | 19.84<br>.781 | 148.00<br>5.827 | 148.00<br>5.827 | -               | -             |
| 18         | 33.40<br>1.315 | 19.84<br>.781 | 148.00<br>5.827 | 148.00<br>5.827 | -               | -             |
| 20         | 36.50<br>1.437 | 21.44<br>.844 | 168.00<br>6.614 | 153.00<br>6.024 | -               | -             |
| 22         | 39.80<br>1.567 | 21.44<br>.844 | 168.00<br>6.614 | 153.00<br>6.024 | -               | -             |
| 24         | 42.90<br>1.689 | 22.22<br>.875 | 168.00<br>6.614 | 153.00<br>6.024 | -               | -             |

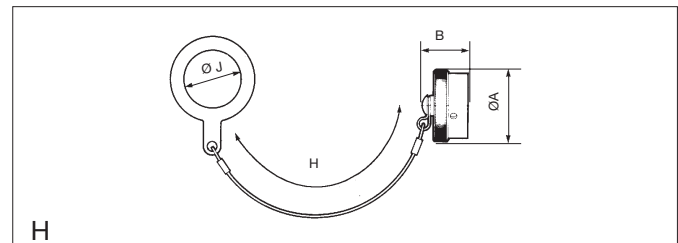
# 851 Series



## Caps for receptacle



| shell size | Ø A Max        | B Max         | C               | D               | J Max          | H               | K               |
|------------|----------------|---------------|-----------------|-----------------|----------------|-----------------|-----------------|
| 08         | 19.00<br>.748  | 21.44<br>.844 | 84.00<br>3.307  | 77.00<br>3.031  | 14.80<br>.583  | 80.00<br>3.150  | 84.00<br>3.307  |
| 10         | 21.80<br>.858  | 21.44<br>.844 | 84.00<br>3.307  | 77.00<br>3.031  | 17.90<br>.705  | 80.00<br>3.150  | 84.00<br>3.307  |
| 12         | 26.10<br>1.028 | 21.44<br>.844 | 100.00<br>3.937 | 89.00<br>3.504  | 22.70<br>.894  | 90.00<br>3.543  | 100.00<br>3.937 |
| 14         | 29.30<br>1.154 | 21.44<br>.844 | 100.00<br>3.937 | 89.00<br>3.504  | 25.90<br>1.020 | 90.00<br>3.543  | 100.00<br>3.937 |
| 16         | 32.50<br>1.280 | 21.44<br>.844 | 100.00<br>3.937 | 89.00<br>3.504  | 29.00<br>1.142 | 90.00<br>3.543  | 100.00<br>3.937 |
| 18         | 35.30<br>1.390 | 21.44<br>.844 | 100.00<br>3.937 | 89.00<br>3.504  | 32.20<br>1.268 | 90.00<br>3.543  | 100.00<br>3.937 |
| 20         | 38.80<br>1.528 | 21.44<br>.844 | 116.00<br>4.567 | 102.00<br>4.016 | 35.40<br>1.394 | 110.00<br>4.331 | 116.00<br>4.567 |
| 22         | 42.00<br>1.654 | 21.44<br>.844 | 116.00<br>4.567 | 102.00<br>4.016 | 38.60<br>1.520 | 110.00<br>4.331 | 116.00<br>4.567 |
| 24         | 45.10<br>1.776 | 22.22<br>.875 | 116.00<br>4.567 | 102.00<br>4.016 | 41.70<br>1.642 | 110.00<br>4.331 | 116.00<br>4.567 |



## Tools

### Crimping pliers

| contact sizes | wire size       |     | part numbers                                                          |                          |
|---------------|-----------------|-----|-----------------------------------------------------------------------|--------------------------|
|               | mm <sup>2</sup> | AWG | crimping tool                                                         | locator                  |
| 20            | 0,93            | 18  | 8465 (MS 3191-1)<br>8476-01 (M 22520 / 2-01)<br>8365 (M 22520 / 1-01) | MS 3191-20 A             |
|               | 0,60            | 20  |                                                                       | 8476-02 (M 22520 / 2-02) |
|               | 0,38            | 22  |                                                                       | 8365-02 (M 22520 / 1-02) |
|               | 0,21            | 24  |                                                                       |                          |
| 16            | 1,91            | 14  | 8465 (MS 3191-1)<br>8365 (M 22520 / 1-01)                             | MS 3191-16 A             |
|               | 1,34            | 16  |                                                                       | 8365-02 (M 22520 / 1-02) |
|               | 0,93            | 18  |                                                                       |                          |

### Insertion and extraction tools

| contact type | contact size | part numbers          |                  |
|--------------|--------------|-----------------------|------------------|
|              |              | insertion tools       | extraction tools |
| crimp        | 20           | 8500-29 B *           | 8500-36 A        |
|              | 16           | 8500-39               | 8500-38 A        |
| for wire cap | 20           | 8500-31               | 8500-31          |
|              | 16           | or 8500-39<br>8500-37 | 8500-37          |

Spare tube for tool :  
- 8500-36 A PN : 8500-1163  
- 8500-38 A PN : 8500-1184

\* Except 8-2, 8-3, 8-4, 12-14 contact layouts :  
insertion tool 8500-93B

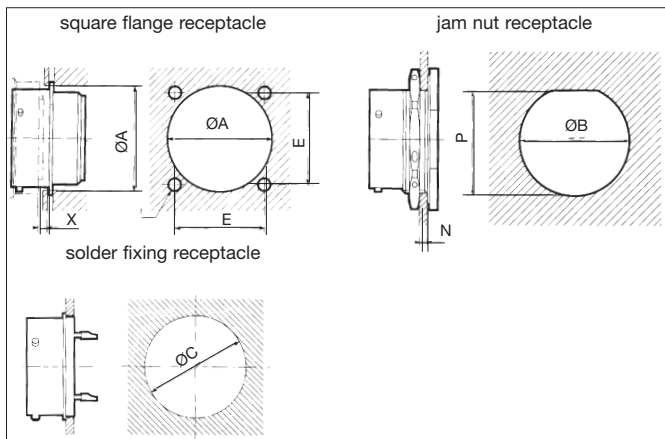
### Filler plug

| contact size | part numbers               | colour | profile |
|--------------|----------------------------|--------|---------|
| 20           | 8500-4144                  | grey   |         |
| 16           | 8500-479                   | blue   |         |
| 20           | 8500-4144 A (MS 3187 A 20) | red    |         |
| 16           | 8500-4267 (MS 3187-16)     | blue   |         |

# 851 Series



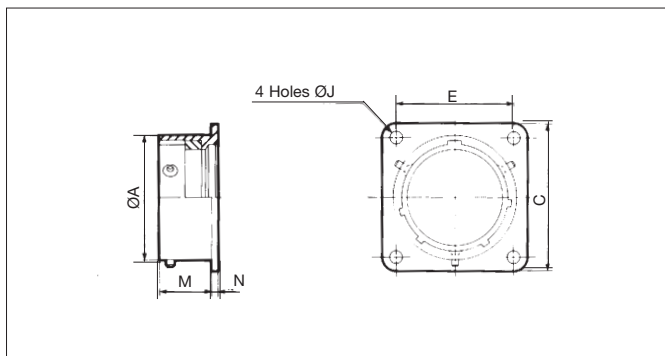
## Panel cut-out



| shell size | A              | B              | C              | E              | J            | N            |              | P              | X min        |
|------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|----------------|--------------|
|            |                |                |                |                |              | min          | Max          |                |              |
| 08         | 15.55<br>.612  | 14.60<br>.575  | 14.70<br>.579  | 15.10<br>.594  | 3.15<br>.124 | 1.57<br>.062 | 3.17<br>.125 | 13.75<br>.541  | 2.90<br>.114 |
| 10         | 18.80<br>.740  | 17.75<br>.699  | 17.50<br>.689  | 18.26<br>.719  | 3.15<br>.124 | 1.57<br>.062 | 3.17<br>.125 | 16.95<br>.667  | 2.90<br>.114 |
| 12         | 22.15<br>.872  | 22.50<br>.886  | 20.20<br>.795  | 20.62<br>.812  | 3.15<br>.124 | 1.57<br>.062 | 3.17<br>.125 | 21.50<br>.846  | 2.90<br>.114 |
| 14         | 25.30<br>.996  | 25.70<br>1.012 | 23.40<br>.921  | 23.00<br>.906  | 3.15<br>.124 | 1.57<br>.062 | 3.17<br>.125 | 24.20<br>.953  | 2.90<br>.114 |
| 16         | 28.45<br>1.120 | 28.85<br>1.136 | 26.60<br>1.047 | 24.60<br>.969  | 3.15<br>.124 | 1.57<br>.062 | 3.17<br>.125 | 27.35<br>1.077 | 2.90<br>.114 |
| 18         | 31.65<br>1.246 | 32.05<br>1.262 | 29.80<br>1.173 | 26.97<br>1.062 | 3.15<br>.124 | 1.57<br>.062 | 3.17<br>.125 | 30.55<br>1.203 | 2.90<br>.114 |
| 20         | 34.80<br>1.370 | 35.20<br>1.386 | 32.10<br>1.264 | 29.36<br>1.156 | 3.15<br>.124 | 1.57<br>.062 | 6.35<br>.250 | 33.70<br>1.327 | 5.50<br>.217 |
| 22         | 38.00<br>1.496 | 38.40<br>1.512 | 35.30<br>1.390 | 31.75<br>1.250 | 3.15<br>.124 | 1.57<br>.062 | 6.35<br>.250 | 36.90<br>1.453 | 5.50<br>.217 |
| 24         | 41.20<br>1.622 | 41.55<br>1.636 | 38.40<br>1.512 | 34.92<br>1.375 | 3.73<br>.147 | 1.57<br>.062 | 6.35<br>.250 | 40.05<br>1.577 | 5.50<br>.217 |

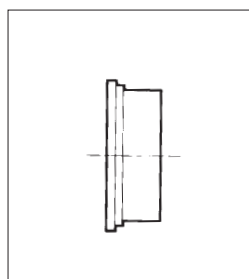
## Accessories

### Dummy receptacle



| Shell size | A              | C Max          | E              | J            | M Max         | N Max        |
|------------|----------------|----------------|----------------|--------------|---------------|--------------|
| 08         | 12.03<br>.474  | 20.99<br>.826  | 15.09<br>.594  | 3.13<br>.123 | 11.70<br>.461 | 1.32<br>.052 |
| 10         | 15.01<br>.591  | 24.19<br>.952  | 18.26<br>.719  | 3.13<br>.123 | 11.70<br>.461 | 1.32<br>.052 |
| 12         | 19.07<br>.751  | 26.54<br>1.045 | 20.62<br>.812  | 3.13<br>.123 | 11.70<br>.461 | 1.32<br>.052 |
| 14         | 22.25<br>.876  | 28.89<br>1.137 | 23.00<br>.906  | 3.13<br>.123 | 11.70<br>.461 | 1.32<br>.052 |
| 16         | 25.42<br>1.001 | 31.29<br>1.232 | 24.61<br>.969  | 3.13<br>.123 | 11.70<br>.461 | 1.32<br>.052 |
| 18         | 28.60<br>1.126 | 33.69<br>1.326 | 26.97<br>1.062 | 3.13<br>.123 | 11.70<br>.461 | 1.32<br>.052 |
| 20         | 31.77<br>1.251 | 36.89<br>1.452 | 29.36<br>1.156 | 3.13<br>.123 | 14.35<br>.565 | 2.15<br>.085 |
| 22         | 34.95<br>1.376 | 39.99<br>1.574 | 31.75<br>1.250 | 3.13<br>.123 | 14.35<br>.565 | 2.15<br>.085 |
| 24         | 38.12<br>1.501 | 43.15<br>1.699 | 34.92<br>1.375 | 3.81<br>.150 | 15.20<br>.598 | 2.15<br>.085 |

### Plastic protective caps for receptacle and plug



| Shell size | caps for receptacle | caps for plug |
|------------|---------------------|---------------|
| 08         | 8500-5585A          | 8500-5594     |
| 10         | 8500-5586A          | 8500-5595     |
| 12         | 8500-5587A          | 8500-5596     |
| 14         | 8500-5588A          | 8500-5597     |
| 16         | 8500-5589A          | 8500-5598     |
| 18         | 8500-5590A          | 8500-5599     |
| 20         | 8500-5591A          | 8500-5600     |
| 22         | 8500-5592A          | 8500-5601     |
| 24         | 8500-5593A          | 8500-5602     |

### Gaskets

| Shell size | gaskets for square flange receptacle |           | gaskets for jam nut receptacle |                                 |
|------------|--------------------------------------|-----------|--------------------------------|---------------------------------|
|            | neoprene                             | fairprene | neoprene                       | viton (for hermetic receptacle) |
| 8          | 8500-275                             | 8500-4164 | 3330102                        | 3330675                         |
| 10         | 8500-276                             | 8500-4165 | 3330103                        | 3330670                         |
| 12         | 8500-277                             | 8500-4166 | 3330104                        | 3330671                         |
| 14         | 8500-278                             | 8500-4167 | 3330105                        | 3330672                         |
| 16         | 8500-283                             | 8500-4168 | 3330106                        | 3331048                         |
| 18         | 8500-279                             | 8500-4169 | 3330107                        | 3331049                         |
| 20         | 8500-280                             | 8500-4170 | 3330108                        | 3331050                         |
| 22         | 8500-281                             | 8500-4171 | 3330109                        | 3331051                         |
| 24         | 8500-282                             | 8500-4172 | 3330110                        | 3331052                         |

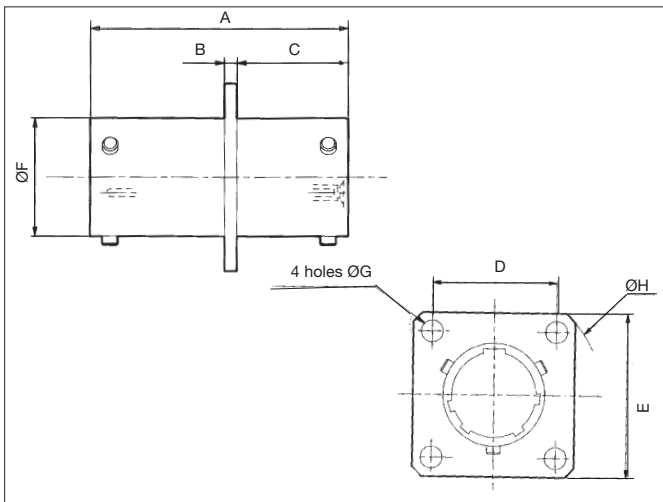
### Re-usable fixing plate

Two, three or four-holes self-locking fixing-plates are available at SHTP. See page 126.

# 851 Series



## Male - female square flange through bulkhead receptacle

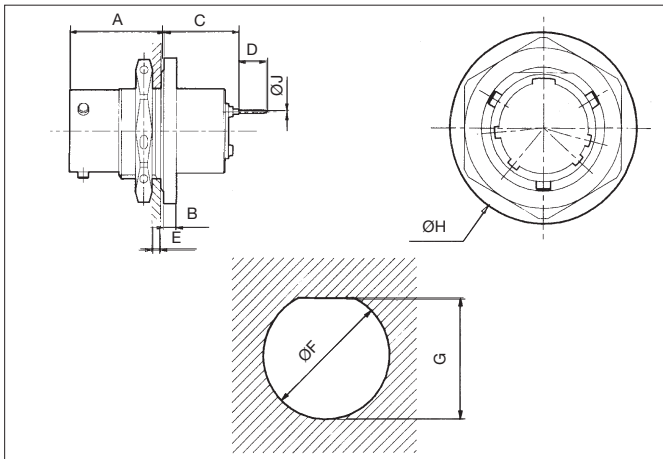


| shell size | A              | B            | C             | D              | E              | F              | G            | H              |
|------------|----------------|--------------|---------------|----------------|----------------|----------------|--------------|----------------|
| 08         | 33.20<br>1.307 | 1.60<br>.063 | 14.30<br>.563 | 15.10<br>.594  | 20.60<br>.811  | 12.00<br>.472  | 3.20<br>.126 | 27.30<br>1.075 |
| 10         | 33.20<br>1.307 | 1.60<br>.063 | 14.30<br>.563 | 18.30<br>.720  | 23.80<br>.937  | 15.00<br>.591  | 3.20<br>.126 | 31.80<br>1.252 |
| 12         | 33.20<br>1.307 | 1.60<br>.063 | 14.30<br>.563 | 20.60<br>.811  | 26.20<br>1.031 | 19.05<br>.750  | 3.20<br>.126 | 35.10<br>1.382 |
| 14         | 33.20<br>1.307 | 1.60<br>.063 | 14.30<br>.563 | 23.00<br>.906  | 28.60<br>1.126 | 22.23<br>.875  | 3.20<br>.126 | 38.50<br>1.516 |
| 16         | 33.20<br>1.307 | 1.60<br>.063 | 14.30<br>.563 | 24.60<br>.969  | 30.90<br>1.217 | 25.40<br>1.000 | 3.20<br>.126 | 41.30<br>1.626 |
| 18         | 33.20<br>1.307 | 1.60<br>.063 | 14.30<br>.563 | 27.00<br>1.063 | 33.30<br>1.311 | 28.60<br>1.126 | 3.20<br>.126 | 44.70<br>1.760 |
| 20         | 36.40<br>1.433 | 2.40<br>.094 | 17.50<br>.689 | 29.40<br>1.157 | 36.50<br>1.437 | 31.75<br>1.250 | 3.20<br>.126 | 49.10<br>1.933 |
| 21         | 36.40<br>1.433 | 2.40<br>.094 | 17.50<br>.689 | 30.60<br>1.205 | 38.50<br>1.516 | 33.85<br>1.333 | 3.20<br>.126 | 51.20<br>2.016 |
| 22         | 36.40<br>1.433 | 2.40<br>.094 | 17.50<br>.689 | 31.80<br>1.252 | 39.70<br>1.563 | 34.90<br>1.374 | 3.20<br>.126 | 53.10<br>2.091 |
| 24         | 36.40<br>1.433 | 2.40<br>.094 | 17.50<br>.689 | 34.90<br>1.374 | 42.90<br>1.689 | 38.10<br>1.500 | 4.20<br>.165 | 57.30<br>2.256 |

### Part numbers

|                |                        |    |    |    |   |
|----------------|------------------------|----|----|----|---|
| basic series   | EC 52 B                | ** | ** | PS | * |
| shell size     | 851 range              |    |    |    |   |
| contact layout | please consult us      |    |    |    |   |
| contact type   | P - male<br>S - female |    |    |    |   |
| polarization   | N, W, X, Y, Z          |    |    |    |   |

## Jam nut receptacle with front release straight spills



| shell size | A             | B            | C             | D            | E Max        | E min        | F              | G              | H              | J           |
|------------|---------------|--------------|---------------|--------------|--------------|--------------|----------------|----------------|----------------|-------------|
| 08         | 17.25<br>.679 | 2.30<br>.091 | 13.68<br>.539 | 5.00<br>.197 | 5.00<br>.197 | 1.57<br>.062 | 14.60<br>.575  | 23.15<br>.911  | 23.15<br>.911  | .60<br>.024 |
| 10         | 17.25<br>.679 | 2.30<br>.091 | 13.68<br>.539 | 5.00<br>.197 | 5.00<br>.197 | 1.57<br>.062 | 17.70<br>.697  | 16.80<br>.661  | 26.45<br>1.041 | .60<br>.024 |
| 12         | 17.25<br>.679 | 2.30<br>.091 | 13.68<br>.539 | 5.00<br>.197 | 5.00<br>.197 | 1.57<br>.062 | 22.70<br>.894  | 20.90<br>.823  | 31.20<br>1.228 | .60<br>.024 |
| 14         | 17.25<br>.679 | 2.30<br>.091 | 13.68<br>.539 | 5.00<br>.197 | 5.00<br>.197 | 1.57<br>.062 | 25.70<br>1.012 | 24.10<br>.949  | 34.40<br>1.354 | .60<br>.024 |
| 16         | 17.25<br>.679 | 2.30<br>.091 | 13.68<br>.539 | 5.00<br>.197 | 5.00<br>.197 | 1.57<br>.062 | 28.80<br>1.134 | 27.20<br>1.071 | 37.55<br>1.478 | .60<br>.024 |
| 18         | 17.25<br>.679 | 2.30<br>.091 | 13.68<br>.539 | 5.00<br>.197 | 5.00<br>.197 | 1.57<br>.026 | 32.00<br>1.260 | 30.40<br>1.197 | 40.75<br>1.604 | .60<br>0.24 |
| 20         | 18.85<br>.742 | 2.50<br>.098 | 13.79<br>.543 | 5.00<br>.197 | 6.60<br>.260 | 1.57<br>.062 | 35.20<br>1.386 | 33.60<br>1.323 | 45.50<br>1.791 | .60<br>.024 |
| 22         | 18.55<br>.742 | 2.50<br>.098 | 13.79<br>.543 | 5.00<br>.197 | 6.60<br>.260 | 1.57<br>.062 | 38.40<br>1.512 | 36.80<br>1.449 | 48.70<br>1.917 | .60<br>.024 |
| 24         | 18.85<br>.742 | 2.50<br>.098 | 13.79<br>.543 | 5.00<br>.197 | 5.90<br>.232 | 1.57<br>.062 | 41.50<br>1.634 | 39.90<br>1.571 | 51.85<br>2.041 | .60<br>.024 |

### Part numbers

|                             |                                               |     |    |    |   |   |        |
|-----------------------------|-----------------------------------------------|-----|----|----|---|---|--------|
| basic series                | 851                                           | 07A | ** | ** | P | * | SN0378 |
| shell type                  | 07A - jam nut receptacle<br>without backshell |     |    |    |   |   |        |
| shell size                  | 851 range                                     |     |    |    |   |   |        |
| contact layout              | consult SHTP                                  |     |    |    |   |   |        |
| contact type                | P - male                                      |     |    |    |   |   |        |
| polarization                |                                               |     |    |    |   |   |        |
| manufactures specifications |                                               |     |    |    |   |   |        |