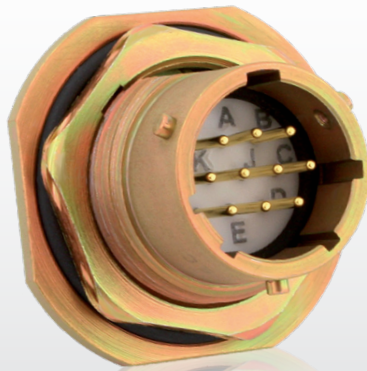


SOURIAU

851 SERIES



MIL-DTL-26482 Connectors



Contents

Overview

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851 SERIES

851 Series

Overview

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Typical applications



Off-Road - Pavers



Robotics - Machine Tools



Telecom Military



Water Measurement



Aircraft



Oil & Gaz Industries

Features & Benefits

QUALIFIED

MIL-DTL-26482H

Fully in accordance with the MIL spec requirements with solder type.

ROBUSTNESS

500 Mating Cycles

Equipped with a coupling ring made from high strength aluminum. The plug provides a minimum of 500 mating unmating cycles. The receptacle is equipped with rugged stainless steel bayonet pins.

OUTDOOR USING

Salt Spray 500 Hours

Designed to withstand climate ingress and exposure to salt spray or corrosive atmospheres while still maintaining mechanical, electrical functionality and RoHS compliance.

QUICK MATING

1/3 Bayonet Coupling

With only 1/3 twist of the bayonet coupling system, connectors are mated with audible "click" and tactile feel to confirm proper mating. These mating features eliminate uncertainty connection and reduce time and labor during installation.

FLEXIBILITY

Arrangements from 2 to 61 contacts

Power supply and signal transmission can be combined in a unique interconnect solution to reduce system complexity and minimize component/installation costs.

Receptacle range

Square flange receptacle type 00

Front view



Square flange receptacle with straight adaptor

00A/RA



Page 20

Square flange receptacle with straight cable clamp without grommet

00AC



Page 20

Square flange receptacle with straight sealing gland backshell

00J



Page 22

Square flange receptacle with straight sealing gland and cable clamp

00JC



Page 22

Square flange receptacle with removable straight backshell for heatshrink sleeving

00M/RM



Page 23

Cable in line receptacle type 01

Front view



Cable in line receptacle with straight adaptor

01A/RA



Page 25

Cable in line receptacle with straight cable clamp without grommet

01AC



Page 25

Cable in line receptacle with straight sealing gland backshell

01J



Page 27

Cable in line receptacle with straight sealing gland and cable clamp

01JC



Page 27

Cable in line receptacle with removable straight backshell for heatshrink sleeving

01M/RM



Page 28

Square flange receptacle type 02

Front view



Jam nut receptacle type 07

Front view



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

07G/RG



Page 32

Jam nut receptacle not accepting backshell

07A/07H



Pages 30, 43 & 45

Square flange receptacle not accepting backshell

02E/02R/02H



Pages 30, 43 & 45

Jam nut receptacle with straight backshell for potting

07P/RP



Page 32

overview

Square flange receptacle with backnut

00E/R



Page 21

Square flange receptacle with straight cable clamp

00EC/RC



Page 20

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

00G/RG



Page 21

Square flange receptacle with straight backshell for potting

00P/RP



Page 23

Square flange receptacle with straight backshell for heatshrink sleeving

00T/RT



Page 24

Square flange receptacle with removable backshell and heatshrink sleeving

00T/RT..38/42



Page 24

Cable in line receptacle with backnut

01E/R



Page 26

Cable in line receptacle with straight cable clamp

01EC/RC



Page 25

Cable in line receptacle with removable straight backshell for screen termination and heatshrink sleeving

01G/RG



Page 26

Cable in line receptacle with straight backshell for potting

01P/RP



Page 28

Cable in line receptacle with straight backshell for heatshrink sleeving

01T/RT



Page 29

Cable in line receptacle with removable backshell and heatshrink sleeving

01T/RT..38/42



Page 29

Jam nut receptacle with straight cable clamp without grommet

07AC



Page 31

Jam nut receptacle with backnut

07E/R



Page 31

Jam nut receptacle with straight cable clamp

07EC/RC



Page 31

Jam nut receptacle with straight backshell for heatshrink sleeving

07T/RT



Page 33

Jam nut receptacle with removable backshell and heatshrink sleeving

07T/RT..38/42



Page 33

Solder fixing receptacle for hermetic version type IH

Front view



Solder fixing receptacle not accepting backshell

IH



Page 44

Plug type 06

Front view



Plug with straight adaptor

06A/RA



Page 34

Plug with straight cable clamp without grommet

06AC



Page 34

Plug with straight sealing gland and cable clamp

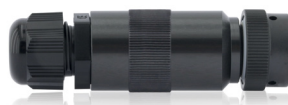
06JC



Page 36

Plug with Long Metallic Adaptor and Plastic Cable Gland

06L*



Page 36

Plug with removable straight backshell for heatshrink sleeving

06M/RM



Page 37

Plug with Short Metallic Adaptor and Plastic Cable Gland

06S*



Page 39

Plug with straight backshell for heatshrink sleeving

06T/RT



Page 39

Plug with straight for electrical pitch access

06Z/RZ



Page 40

Shielded plug with straight adaptor

36A/RA



Page 41

Shielded plug with removable straight backshell for screen termination and heatshrink sleeving

36G/RG



Page 42

Shielded plug with removable straight backshell for screen termination and heatshrink sleeving

36T/RT..38/42



Page 42

* Available only from size 8 to 16

overview

Plug with
backnut
06E/R



Page 35

Plug with straight
cable clamp
06EC/RC



Page 34

Plug with straight sealing gland
backshell
06J



Page 35

Plug with short metallic adaptor
and plastic cable gland with
spiral protector
06NS*



Page 37

Plug with long metallic adaptor
and plastic cable gland with
spiral protector
06NL*



Page 38

Plug with straight backshell
for potting
06P/RP



Page 38

Plug with elbow cable
clamp backshell
08EC/RC



Page 40

Plug with elbow backshell
for potting
08P/RP



Page 41

Plug overmolded



Consult us

Environmental connectors / Ordering information

| | | | | | | | | | |
|---|---|--|----------|----------|-----------|----------|----------|-----------|-----------|
| Basic Series | 851 | 00 | E | 8 | 3A | P | - | 50 | -- |
| Shell type: | | | | | | | | | |
| 00 | square flange receptacle accepting backshells | | | | | | | | |
| 01 | in line receptacle | | | | | | | | |
| 02 | square flange receptacle not accepting backshells | | | | | | | | |
| 07 | jam nut receptacle accepting backshells | | | | | | | | |
| 06 | plug for use with straight backshells | | | | | | | | |
| 08 | plug for use with 90° backshells | | | | | | | | |
| 36 | shielded plug for use with straight backshells | | | | | | | | |
| Backshell type: | | | | | | | | | |
| Solder Crimp | | | | | | | | | |
| A | RA | straight adaptor | | | | | | | |
| EC | RC | straight cable clamp for solder contacts | | | | | | | |
| EC | RC | 90° cable clamp | | | | | | | |
| AC | | straight cable clamp without grommet | | | | | | | |
| E | R | backnut | | | | | | | |
| 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 | | | | | | | |
| L | | long metallic adaptor and plastic cable gland - Shell size 08 to 16 | | | | | | | |
| M | RM | square flange receptacle not accepting backshells | | | | | | | |
| NL | | long metallic adaptor and plastic cable gland with spiral protector - Shell size 08 to 16 | | | | | | | |
| NS | | short metallic adaptor and plastic cable gland with spiral protector - Shell size 08 to 16 | | | | | | | |
| P | RP | straight backshell for potting | | | | | | | |
| P | RP | 90° backshell for potting | | | | | | | |
| S | | short metallic adaptor and plastic cable gland - Shell size 08 to 16 | | | | | | | |
| T | RT | straight backshell for heatshrink sleeving | | | | | | | |
| U | RU | short backshell for screen termination and heatshrink sleeving | | | | | | | |
| Z | RZ | straight adaptor for electrical pitch access | | | | | | | |
| Shell size: | | | | | | | | | |
| 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 | | | | | | | | | |
| Contacts layout: | | | | | | | | | |
| see pages 14 & 15 | | | | | | | | | |
| Contact type: | | | | | | | | | |
| P | male | | | | | | | | |
| S | female | | | | | | | | |
| Orientation: | | | | | | | | | |
| Normal (not included in part number). For others note: W, X, Y, Z - see table page 76 | | | | | | | | | |
| Obligatory suffix | | | | | | | | | |
| B | crimp version without clip for layouts 8-2, 8-3, 8-4, & 12-14, gold plated all over the contact | | | | | | | | |
| 50 | Crimp type contact: Gold plated, all sizes | | | | | | | | |
| | Solder type contact: | | | | | | | | |
| | - Size 20, gold plated active area, tin plated termination area, except for layouts 8-2, 8-3, 8-4, & 12-14 gold plated all over the contact | | | | | | | | |
| | - Size 16 and mix layouts (size 20 & 16), gold plated all over the contact. | | | | | | | | |
| 51 | solder type contact (only size 20, gold plated all over the contact) | | | | | | | | |
| 54 | black zinc nickel plating (contacts as per suffix 50) | | | | | | | | |
| 57 | black zinc nickel plating (contacts as per suffix 51) | | | | | | | | |
| Specification (without specification: olive green cadmium plating) | | | | | | | | | |
| 29 | black anodized plating (solder type contacts) | | | | | | | | |
| 031 | black anodized plating (crimp type contacts) | | | | | | | | |
| 44 | nickel plating | | | | | | | | |
| 66 | crimp version: delivered without backshell and conical ring | | | | | | | | |
| | solder version: delivered without backshell, conical ring and grommet | | | | | | | | |

Cadmium plating without specification

Hermetic connectors / Ordering information

| | | | | | | | |
|---|-----|-----|---|----|---|---|----|
| Basic Series | 851 | 02H | 8 | 3A | P | - | 50 |
| Shell type: | | | | | | | |
| 02H square flange receptacle not accepting backshells | | | | | | | |
| 07H jam nut receptacle not accepting backshells | | | | | | | |
| IH solder fixing receptacle not accepting backshells | | | | | | | |
| Shell size: | | | | | | | |
| 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 | | | | | | | |
| Contacts layout: | | | | | | | |
| see pages 14 & 15 | | | | | | | |
| Contact type: | | | | | | | |
| P male | | | | | | | |
| Orientation: | | | | | | | |
| Normal (not included in part number). For others note: W, X, Y, Z - see table page 76 | | | | | | | |
| Obligatory suffix | | | | | | | |
| 50 Gold plating for contacts #20 & #16 | | | | | | | |
| Specification (without specification: 02H and 07H yellow cadmium plating, IH nickel plating) | | | | | | | |
| 44 02H and 07H nickel plating | | | | | | | |

PC Tail connectors / Ordering information

| | | | | | | | |
|---|-----|-----|---|----|---|---|------|
| Basic Series | 851 | 02E | 8 | 3A | P | - | 5016 |
| Shell type: | | | | | | | |
| 02E square flange receptacle not accepting backshells | | | | | | | |
| 07A jam nut receptacle not accepting backshells | | | | | | | |
| Shell size: | | | | | | | |
| 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 | | | | | | | |
| Contacts layout: | | | | | | | |
| see pages 14 & 15 | | | | | | | |
| Contact type: | | | | | | | |
| P male S female | | | | | | | |
| Orientation: | | | | | | | |
| Normal (not included in part number). For others note: W, X, Y, Z - see table page 76 | | | | | | | |
| Specification | | | | | | | |
| 5016 olive drab cadmium plating, shouldered PC tail type contact* | | | | | | | |
| 5116 olive drab cadmium plating, shouldered PC tail type contact (only size 20, gold plated all over the contact) | | | | | | | |
| 5416 black zinc nickel plating* | | | | | | | |
| 5716 black zinc nickel plating (only size 20, gold plated all over the contact) | | | | | | | |
| 5045 nickel plating, shouldered PC tail type contact* | | | | | | | |
| 5145 nickel plating, shouldered PC tail type contact (only size 20, gold plated all over the contact) | | | | | | | |
| 50F9 black anodized plating, shouldered PC tail type contact* | | | | | | | |
| 51F9 black anodized plating, shouldered PC tail type contact (only size 20, gold plated all over the contact) | | | | | | | |
| 50A7 olive drab cadmium plating, not shouldered PC tail type contact (gold plated all over the contact) | | | | | | | |
| 50G9 nickel plating, not shouldered PC tail type contact (gold plated all over the contact) | | | | | | | |

*- Size 20, gold plated active area, tin plated termination area, except for layouts 8-2, 8-3, 8-4, & 12-14 gold plated all over the contact
 - Size 16, gold plated all over the contact, same for mix layouts (size 20 & 16)

Layouts

| Shell size | Contact #16 (Ø 1.6 mm) | Contact #20 (Ø 1.0 mm) | Mixed power |
|------------|---|---|--|
| 8 | | <p>8-2 2 contacts 2xØ1.0 (#20)</p> <p>8-3 3 contacts 3xØ1.0 (#20)</p> <p>8-3A/8-98 3 contacts 3xØ1.0 (#20)</p> <p>8-33 3 contacts 3xØ1.0 (#20)</p> <p>8-4 4 contacts 4xØ1.0 (#20)</p> | |
| 10 | | <p>10-6 6 contacts 6xØ1.0 (#20)</p> <p>10-7 7 contacts 7xØ1.0 (#20)</p> <p>10-98 6 contacts 6xØ1.0 (#20)</p> | |
| 12 | <p>12-2 2 contacts 2xØ1.6 (#16)</p> <p>12-3 3 contacts 3xØ1.6 (#16)</p> <p>12-4 3 contacts +ground 4xØ1.6 (#16)</p> | <p>12-8 8 contacts 8xØ1.0 (#20)</p> <p>12-10 10 contacts 10xØ1.0 (#20)</p> <p>12-14 14 contacts 14xØ1.0 (#20)</p> | |
| 14 | <p>14-5 5 contacts 5xØ1.6 (#16)</p> <p>14-7 6 contacts +ground 7xØ1.6 (#16)</p> | <p>14-18 18 contacts 18xØ1.0 (#20)</p> <p>14-19 19 contacts 19xØ1.0 (#20)</p> | <p>14-12 12 contacts 8xØ1.0 (#20) 4xØ1.6 (#16)</p> <p>14-15 15 contacts 14xØ1.0 (#20) 1xØ1.6 (#16)</p> |
| 16 | <p>16-8 8 contacts 8xØ1.6 (#16)</p> | <p>16-26 26 contacts 26xØ1.0 (#20)</p> | <p>16-23 23 contacts 22xØ1.0 (#20) 1xØ1.6 (#16)</p> |

- Solder contact layouts (QPL)
- Solder contact layouts
- + Solder contact layouts without grommet
- ▲ Crimp contact layouts
- Hermetic version contact layouts
- ◆ PC tail contact layouts

Other layouts, please consult us

Layouts

| Shell size | Contact #16 (Ø 1.6 mm) | Contact #20 (Ø 1.0 mm) | Mixed power |
|------------|--|---|---|
| 18 | <p>18-11 11 contacts 11xØ1.6 (#16)</p> | <p>18-32 32 contacts 32xØ1.0 (#20)</p> | <p>18-30 30 contacts 29xØ1.0 (#20) 1xØ1.6 (#16)</p> |
| 20 | <p>20-16 16 contacts 16xØ1.6 (#16)</p> | <p>20-24 24 contacts 24xØ1.0 (#20)</p> <p>20-25 25 contacts 25xØ1.0 (#20)</p> <p>20-27 27 contacts 27xØ1.0 (#20)</p> <p>20-41 41 contacts 41xØ1.0 (#20)</p> | <p>20-39 39 contacts 37xØ1.0 (#20) 2xØ1.6 (#16)</p> |
| 22 | <p>22-21 21 contacts 21xØ1.6 (#16)</p> | <p>22-32 32 contacts 32xØ1.0 (#20)</p> <p>22-34 34 contacts 34xØ1.0 (#20)</p> <p>22-36 36 contacts 36xØ1.0 (#20)</p> <p>22-55 55 contacts 55xØ1.0 (#20)</p> | |
| 24 | | <p>24-61 61 contacts 61xØ1.0 (#20)</p> | |

Environmental versions



Technical features

Materials

- **Shell:**
Environmental version : aluminium alloy
- Plating :
- olive green cadmium
- black anodised
- black zinc nickel
- nickel
- **Backshells:** Aluminum alloy
- **Cable glands:** Thermoplastic
- **Coupling ring:** Aluminum alloy
- **Spring washer:** Spring stainless steel
- **Insert:** Elastomeric soft neoprene
- **RoHS compliant & conforms to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)**



Electrical

- **Dielectric withstanding voltage:**
- At standard pressure: mated and unmated connectors
- 1500 Vrms between size 20 contacts (service 1)
- 2300 Vrms between size 16 contacts (service 2)
- 1500 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**
≥ 5000 MΩ under 500 Vcc
- **Current rating per contact**
- Standard version:
Size 20 = 7.5 A / Size 16 = 13 A
- Hermetic version:
Size 20 = 5 A / Size 16 = 10 A
- **Contact resistance**
- Environmental version:
Size 20 ≤ 4 mΩ / Size 16 ≤ 3 mΩ
- Hermetic version:
Size 20 ≤ 30 mΩ / Size 16 ≤ 14 mΩ
- **Shielding effectiveness:**
70 dB to 5 MHz - 40 dB to 100 MHz

Environmental

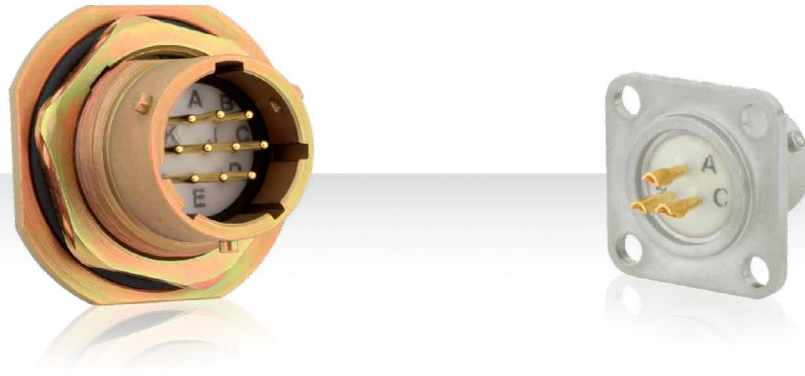
- **Operating temperature:**
from -55°C to +125°C
- **Flammability rating:**
UL94 HB
- **Dynamic salt spray:**
per EIA-364-26
- 48 h Cadmium, Nickel, Zinc cobalt
- 500 h Black anodized
- 500 h Black zinc nickel

- **Sealing:**
- Globally IP65 (unmated conditions)
- With J or JC backshell IP67 (mated conditions)
- With cable gland IP68 (mated conditions)
Under 10 meter of water during 48 hours
- Crimp contact version, 1 bar differential pressure, leakage ≤ 8 cm³/hr
- Solder contact version, 2 bar differential pressure, leakage ≤ 16 cm³/hr
- **Fluid resistance:**
- to MIL-DTL-26482G series 1 and NFC 93422 - HE 301 B code A
- Hydraulic fluids
- Lubricating oil

Mechanical

- **Durability:**
500 matings and unmatings per MIL-DTL-26482H
- **Mechanical shock:**
50 g, 11 ms period per EIA-364-27

Hermetic versions



Technical features

Materials

- **Shell:**
Steel
- **Plating:**
Iridescent yellow cadmium
Nickel
- **Contact:**
Gold plated ferrous alloy
- **Seal:**
Fluorocarbon elastomer

Electrical

- **Max current rating per contact:**

| | | |
|---------------------|-----------|-----------|
| Contact size | 20 | 16 |
| Rating (A) | 5 | 10 |

- **Dielectric withstanding voltage:**

| Service | Standard pressure | 10 mbar pressure |
|----------------|--------------------------|-------------------------|
| I | 1 500 Vrms | 200 Vrms |
| II | 2 300 Vrms | 300 Vrms |

- **Contact resistance:**
Size 20 \leq 30 m Ω
Size 16 \leq 14 m Ω

- **Shielding:**
70 dB to 5 MHz
40 dB to 100 MHz

Environmental

- **Operating temperature:**
-55°C to +125°C
- **Hermeticity:**
1 bar differential pressure,
leakage \leq 2.8 mm³/hr
- **Salt spray:**
48 hours min
- **Chemical resistance:**
To MIL-DTL-26482G Series I
- **Damp heat:** 21 days

851 SERIES

Connector

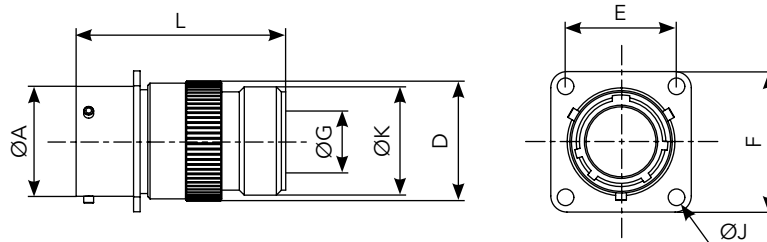
| | |
|-----------------------------------|----|
| ■ Environmental connectors | 20 |
| ■ Hermetic connectors | 43 |
| ■ PC Tail connectors | 45 |
| ■ Panel cut out | 46 |
| ■ Backshells | 47 |
| ■ Push-pull locking plug | 49 |
| ■ 8F51 filter connectors | 51 |
| ■ SNC spécifique connectors | 52 |

Environmental connectors

Square flange receptacle with straight adaptor

Cross reference

| | |
|--------------|----------------|
| 00 A | HE 301 B 00 A |
| 00 RA | HE 301 B 00 RA |

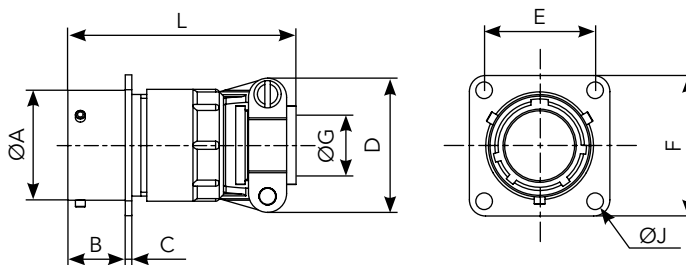


| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | J | K threading UNEF 2A |
|------------|-----------------------------------|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------------------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | | |
| 8 | 851 00 A 8.. ₅ . 50.. | 851 00 RA 8.. ₅ . 50.. | 41.00 | | 12.03 | 11.70 | 1.32 | 14.50 | 15.09 | 20.99 | 9.10 | 3.13 | 1/2 18 |
| 10 | 851 00 A 10.. ₅ . 50.. | 851 00 RA 10.. ₅ . 50.. | 41.00 | | 15.01 | 11.70 | 1.32 | 18.70 | 18.26 | 24.19 | 12.08 | 3.13 | 5/8 24 |
| 12 | 851 00 A 12.. ₅ . 50.. | 851 00 RA 12.. ₅ . 50.. | 41.00 | | 19.07 | 11.70 | 1.32 | 21.70 | 20.62 | 26.54 | 15.25 | 3.13 | 3/4 20 |
| 14 | 851 00 A 14.. ₅ . 50.. | 851 00 RA 14.. ₅ . 50.. | 41.00 | | 22.25 | 11.70 | 1.32 | 25.10 | 23.00 | 28.89 | 18.15 | 3.13 | 7/8 20 |
| 16 | 851 00 A 16.. ₅ . 50.. | 851 00 RA 16.. ₅ . 50.. | 41.00 | | 25.42 | 11.70 | 1.32 | 28.13 | 24.61 | 31.29 | 21.32 | 3.13 | 1-20 |
| 18 | 851 00 A 18.. ₅ . 50.. | 851 00 RA 18.. ₅ . 50.. | 41.00 | | 28.60 | 11.70 | 1.32 | 31.38 | 26.97 | 33.69 | 24.32 | 3.13 | 1-3/16 18 |
| 20 | 851 00 A 20.. ₅ . 50.. | 851 00 RA 20.. ₅ . 50.. | 44.00 | | 31.77 | 14.35 | 2.15 | 34.30 | 29.36 | 36.89 | 26.73 | 3.13 | 1-3/16 18 |
| 22 | 851 00 A 22.. ₅ . 50.. | 851 00 RA 22.. ₅ . 50.. | 44.00 | | 34.95 | 14.35 | 2.15 | 37.60 | 31.75 | 39.99 | 30.67 | 3.13 | 1-7/16 18 |
| 24 | 851 00 A 24.. ₅ . 50.. | 851 00 RA 24.. ₅ . 50.. | 44.00 | | 38.12 | 15.20 | 2.15 | 40.70 | 34.92 | 43.15 | 33.08 | 3.81 | 1-7/16 18 |

Square flange receptacle with straight cable clamp

Cross reference

| | |
|--------------|----------------|
| 00 EC | HE 301 B 00 EC |
| | MS 3110 F |
| 00 AC | HE 301 B 00 AC |
| 00 RC | HE 301 B 00 RC |
| | MS 3120 F |
| | VG 95328 B |



| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | J |
|------------|---|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | |
| 8 | 851 00 ^{EC} _{AC} 8.. ₅ . 50.. | 851 00 RC 8.. ₅ . 50.. | 48.00 | 47.30 | 12.03 | 11.70 | 1.32 | 13.50 | 15.09 | 20.99 | 3.13 |
| 10 | 851 00 ^{EC} _{AC} 10.. ₅ . 50.. | 851 00 RC 10.. ₅ . 50.. | 48.00 | 47.30 | 15.01 | 11.70 | 1.32 | 16.70 | 18.26 | 24.19 | 3.13 |
| 12 | 851 00 ^{EC} _{AC} 12.. ₅ . 50.. | 851 00 RC 12.. ₅ . 50.. | 48.00 | 47.30 | 19.07 | 11.70 | 1.32 | 19.90 | 20.62 | 26.54 | 3.13 |
| 14 | 851 00 ^{EC} _{AC} 14.. ₅ . 50.. | 851 00 RC 14.. ₅ . 50.. | 48.00 | 47.30 | 22.25 | 11.70 | 1.32 | 23.40 | 23.00 | 28.89 | 3.13 |
| 16 | 851 00 ^{EC} _{AC} 16.. ₅ . 50.. | 851 00 RC 16.. ₅ . 50.. | 51.00 | 50.50 | 25.42 | 11.70 | 1.32 | 26.60 | 24.61 | 31.29 | 3.13 |
| 18 | 851 00 ^{EC} _{AC} 18.. ₅ . 50.. | 851 00 RC 18.. ₅ . 50.. | 51.00 | 50.50 | 28.60 | 11.70 | 1.32 | 29.50 | 26.97 | 33.69 | 3.13 |
| 20 | 851 00 ^{EC} _{AC} 20.. ₅ . 50.. | 851 00 RC 20.. ₅ . 50.. | 53.00 | 51.50 | 31.77 | 14.35 | 2.15 | 32.70 | 29.36 | 36.89 | 3.13 |
| 22 | 851 00 ^{EC} _{AC} 22.. ₅ . 50.. | 851 00 RC 22.. ₅ . 50.. | 53.00 | 51.50 | 34.95 | 14.35 | 2.15 | 36.00 | 31.75 | 39.99 | 3.13 |
| 24 | 851 00 ^{EC} _{AC} 24.. ₅ . 50.. | 851 00 RC 24.. ₅ . 50.. | 53.00 | 51.50 | 38.12 | 15.20 | 2.15 | 39.10 | 34.92 | 43.15 | 3.81 |

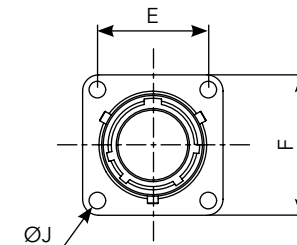
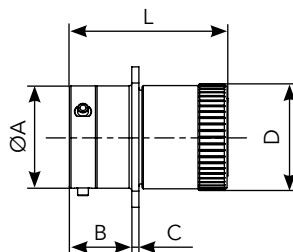
Note: all dimensions are in mm

Environmental connectors

Square flange receptacle with backnut

Cross reference

| | |
|------|---------------|
| 00 E | HE 301 B 00 E |
| | MS 3110 E |
| 00 R | HE 301 B 00 R |
| | MS 3120 E |
| | VG 95328 A |

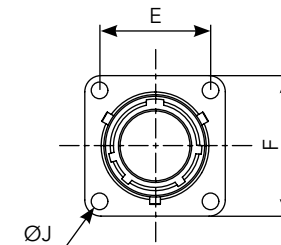
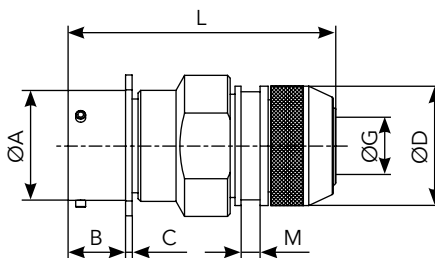


| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | J |
|------------|-------------------------------------|-------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | |
| 8 | 851 00 E 8.. P _S . 50.. | 851 00 R 8.. P _S . 50.. | 32.70 | 32.00 | 12.03 | 11.70 | 1.32 | 13.50 | 15.09 | 20.99 | 3.13 |
| 10 | 851 00 E 10.. P _S . 50.. | 851 00 R 10.. P _S . 50.. | 32.70 | 32.00 | 15.01 | 11.70 | 1.32 | 16.70 | 18.26 | 24.19 | 3.13 |
| 12 | 851 00 E 12.. P _S . 50.. | 851 00 R 12.. P _S . 50.. | 32.70 | 32.00 | 19.07 | 11.70 | 1.32 | 19.90 | 20.62 | 26.54 | 3.13 |
| 14 | 851 00 E 14.. P _S . 50.. | 851 00 R 14.. P _S . 50.. | 32.70 | 32.00 | 22.25 | 11.70 | 1.32 | 23.40 | 23.00 | 28.89 | 3.13 |
| 16 | 851 00 E 16.. P _S . 50.. | 851 00 R 16.. P _S . 50.. | 32.70 | 32.00 | 25.42 | 11.70 | 1.32 | 26.60 | 24.61 | 31.29 | 3.13 |
| 18 | 851 00 E 18.. P _S . 50.. | 851 00 R 18.. P _S . 50.. | 32.70 | 32.00 | 28.60 | 11.70 | 1.32 | 29.50 | 26.97 | 33.69 | 3.13 |
| 20 | 851 00 E 20.. P _S . 50.. | 851 00 R 20.. P _S . 50.. | 34.50 | 33.40 | 31.77 | 14.35 | 2.15 | 32.70 | 29.36 | 36.89 | 3.13 |
| 22 | 851 00 E 22.. P _S . 50.. | 851 00 R 22.. P _S . 50.. | 34.50 | 33.40 | 34.95 | 14.35 | 2.15 | 36.00 | 31.75 | 39.99 | 3.13 |
| 24 | 851 00 E 24.. P _S . 50.. | 851 00 R 24.. P _S . 50.. | 34.50 | 33.40 | 38.12 | 15.20 | 2.15 | 39.10 | 34.92 | 43.15 | 3.81 |

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

Cross reference

| | |
|-------|------------|
| 00 G | |
| 00 RG | VG 95328 R |



| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | J | M max |
|------------|-------------------------------------|--------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | | |
| 8 | 851 00 G 8.. P _S . 50.. | 851 00 RG 8.. P _S . 50.. | 54.00 | | 12.03 | 11.70 | 1.32 | 16.30 | 15.09 | 20.99 | 7.45 | 3.13 | 3.60 |
| 10 | 851 00 G 10.. P _S . 50.. | 851 00 RG 10.. P _S . 50.. | 54.00 | | 15.01 | 11.70 | 1.32 | 18.30 | 18.26 | 24.19 | 10.30 | 3.13 | 3.60 |
| 12 | 851 00 G 12.. P _S . 50.. | 851 00 RG 12.. P _S . 50.. | 54.00 | | 19.07 | 11.70 | 1.32 | 22.30 | 20.62 | 26.54 | 13.20 | 3.13 | 3.60 |
| 14 | 851 00 G 14.. P _S . 50.. | 851 00 RG 14.. P _S . 50.. | 54.00 | | 22.25 | 11.70 | 1.32 | 25.30 | 23.00 | 28.89 | 16.50 | 3.13 | 3.60 |
| 16 | 851 00 G 16.. P _S . 50.. | 851 00 RG 16.. P _S . 50.. | 54.00 | | 25.42 | 11.70 | 1.32 | 28.30 | 24.61 | 31.29 | 19.35 | 3.13 | 3.60 |
| 18 | 851 00 G 18.. P _S . 50.. | 851 00 RG 18.. P _S . 50.. | 54.00 | | 28.60 | 11.70 | 1.32 | 32.30 | 26.97 | 33.69 | 21.60 | 3.13 | 3.60 |
| 20 | 851 00 G 20.. P _S . 50.. | 851 00 RG 20.. P _S . 50.. | 59.30 | | 31.77 | 14.35 | 2.15 | 34.30 | 29.36 | 36.89 | 24.80 | 3.13 | 3.60 |
| 22 | 851 00 G 22.. P _S . 50.. | 851 00 RG 22.. P _S . 50.. | 59.30 | | 34.95 | 14.35 | 2.15 | 38.30 | 31.75 | 39.99 | 27.90 | 3.13 | 3.60 |
| 24 | 851 00 G 24.. P _S . 50.. | 851 00 RG 24.. P _S . 50.. | 59.30 | | 38.12 | 15.20 | 2.15 | 41.30 | 34.92 | 43.15 | 31.00 | 3.81 | 3.60 |

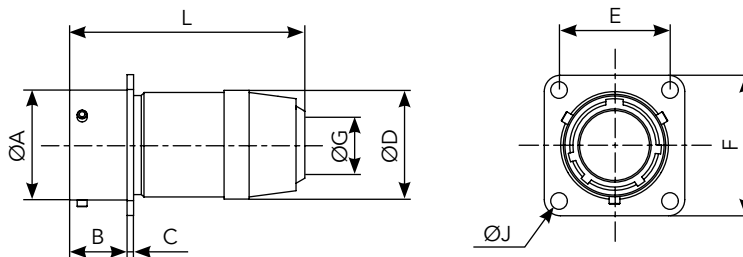
Note: all dimensions are in mm

Environmental connectors

Square flange receptacle with straight sealing gland backshell

Cross reference

00 J HE 301 B 00J

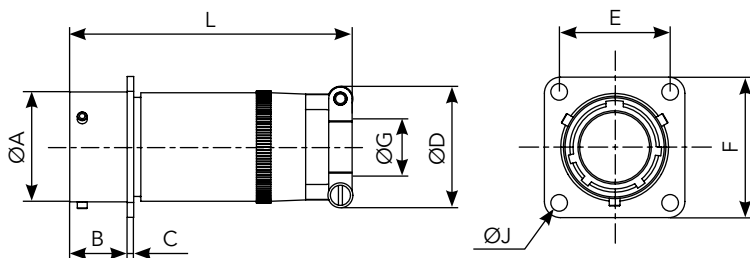


| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | | J |
|------------|-------------------------------------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | min | max | |
| 8 | 851 00 J 8.. P _S . 50.. | - | 47.60 | - | 12.03 | 11.70 | 1.32 | 14.40 | 15.09 | 20.99 | 5.02 | 5.84 | 3.13 |
| 10 | 851 00 J 10.. P _S . 50.. | - | 47.60 | - | 15.01 | 11.70 | 1.32 | 17.60 | 18.26 | 24.19 | 5.94 | 6.76 | 3.13 |
| 12 | 851 00 J 12.. P _S . 50.. | - | 48.70 | - | 19.07 | 11.70 | 1.32 | 21.10 | 20.62 | 26.54 | 9.34 | 10.16 | 3.13 |
| 14 | 851 00 J 14.. P _S . 50.. | - | 53.50 | - | 22.25 | 11.70 | 1.32 | 24.40 | 23.00 | 28.89 | 11.32 | 12.14 | 3.13 |
| 16 | 851 00 J 16.. P _S . 50.. | - | 59.00 | - | 25.42 | 11.70 | 1.32 | 27.60 | 24.61 | 31.29 | 14.73 | 15.55 | 3.13 |
| 18 | 851 00 J 18.. P _S . 50.. | - | 65.00 | - | 28.60 | 11.70 | 1.32 | 30.80 | 26.97 | 33.69 | 16.00 | 16.82 | 3.13 |
| 20 | 851 00 J 20.. P _S . 50.. | - | 79.10 | - | 31.77 | 14.35 | 2.15 | 34.10 | 29.36 | 36.89 | 16.89 | 17.70 | 3.13 |
| 22 | 851 00 J 22.. P _S . 50.. | - | 80.00 | - | 34.95 | 14.35 | 2.15 | 37.30 | 31.75 | 39.99 | 17.78 | 18.60 | 3.13 |
| 24 | 851 00 J 24.. P _S . 50.. | - | 90.00 | - | 38.12 | 15.20 | 2.15 | 40.50 | 34.92 | 43.15 | 20.34 | 21.16 | 3.81 |

Square flange receptacle with straight sealing gland and cable clamp

Cross reference

00 JC MS 3110 J

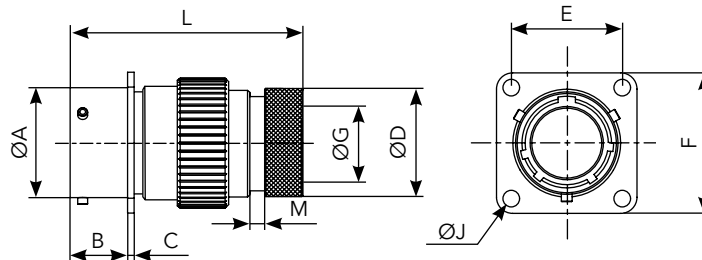


| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | | J |
|------------|--------------------------------------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | min | max | |
| 8 | 851 00 JC 8.. P _S . 50.. | - | 57.68 | - | 12.03 | 11.70 | 1.32 | 19.90 | 15.09 | 20.99 | 5.02 | 5.84 | 3.13 |
| 10 | 851 00 JC 10.. P _S . 50.. | - | 57.68 | - | 15.01 | 11.70 | 1.32 | 21.50 | 18.26 | 24.19 | 5.94 | 6.76 | 3.13 |
| 12 | 851 00 JC 12.. P _S . 50.. | - | 61.24 | - | 19.07 | 11.70 | 1.32 | 25.00 | 20.62 | 26.54 | 9.34 | 10.16 | 3.13 |
| 14 | 851 00 JC 14.. P _S . 50.. | - | 66.01 | - | 22.25 | 11.70 | 1.32 | 27.80 | 23.00 | 28.89 | 11.32 | 12.14 | 3.13 |
| 16 | 851 00 JC 16.. P _S . 50.. | - | 74.75 | - | 25.42 | 11.70 | 1.32 | 29.40 | 24.61 | 31.29 | 14.73 | 15.55 | 3.13 |
| 18 | 851 00 JC 18.. P _S . 50.. | - | 80.57 | - | 28.60 | 11.70 | 1.32 | 35.30 | 26.97 | 33.69 | 16.00 | 16.82 | 3.13 |
| 20 | 851 00 JC 20.. P _S . 50.. | - | 91.69 | - | 31.77 | 14.35 | 2.15 | 35.30 | 29.36 | 36.89 | 16.89 | 17.70 | 3.13 |
| 22 | 851 00 JC 22.. P _S . 50.. | - | 95.66 | - | 34.95 | 14.35 | 2.15 | 41.10 | 31.75 | 39.99 | 17.78 | 18.60 | 3.13 |
| 24 | 851 00 JC 24.. P _S . 50.. | - | 101.22 | - | 38.12 | 15.20 | 2.15 | 42.40 | 34.92 | 43.15 | 20.34 | 21.16 | 3.81 |

Note: all dimensions are in mm

Environmental connectors

Square flange receptacle with removable straight backshell for heatshrink sleeving

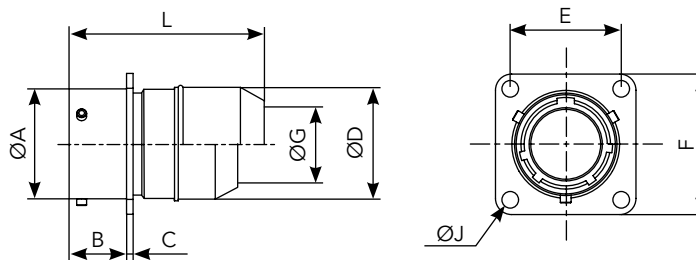


| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | J | M max |
|------------|------------------------|-------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | | |
| 8 | 851 00 M 8.. P . 50.. | 851 00 RM 8.. P . 50.. | 50.00 | | 12.03 | 11.70 | 1.32 | 13.55 | 15.09 | 20.99 | 7.05 | 3.13 | 3.50 |
| 10 | 851 00 M 10.. P . 50.. | 851 00 RM 10.. P . 50.. | 50.00 | | 15.01 | 11.70 | 1.32 | 15.35 | 18.26 | 24.19 | 9.90 | 3.13 | 3.50 |
| 12 | 851 00 M 12.. P . 50.. | 851 00 RM 12.. P . 50.. | 50.00 | | 19.07 | 11.70 | 1.32 | 19.48 | 20.62 | 26.54 | 12.60 | 3.13 | 3.50 |
| 14 | 851 00 M 14.. P . 50.. | 851 00 RM 14.. P . 50.. | 50.00 | | 22.25 | 11.70 | 1.32 | 21.30 | 23.00 | 28.89 | 15.90 | 3.13 | 3.50 |
| 16 | 851 00 M 16.. P . 50.. | 851 00 RM 16.. P . 50.. | 50.00 | | 25.42 | 11.70 | 1.32 | 24.50 | 24.61 | 31.29 | 18.95 | 3.13 | 3.50 |
| 18 | 851 00 M 18.. P . 50.. | 851 00 RM 18.. P . 50.. | 50.00 | | 28.60 | 11.70 | 1.32 | 26.45 | 26.97 | 33.69 | 20.90 | 3.13 | 3.50 |
| 20 | 851 00 M 20.. P . 50.. | 851 00 RM 20.. P . 50.. | 53.30 | | 31.77 | 14.35 | 2.15 | 30.73 | 29.36 | 36.89 | 23.70 | 3.13 | 3.50 |
| 22 | 851 00 M 22.. P . 50.. | 851 00 RM 22.. P . 50.. | 53.30 | | 34.95 | 14.35 | 2.15 | 34.24 | 31.75 | 39.99 | 26.60 | 3.13 | 3.50 |
| 24 | 851 00 M 24.. P . 50.. | 851 00 RM 24.. P . 50.. | 53.30 | | 38.12 | 15.20 | 2.15 | 36.47 | 34.92 | 43.15 | 29.30 | 3.81 | 3.50 |

Square flange receptacle with straight backshell for potting

Cross reference

| | |
|-------|----------------|
| 00 P | HE 301 B 00 P |
| | MS 3110 P |
| 00 RP | HE 301 B 00 RP |
| | MS 3120 P |

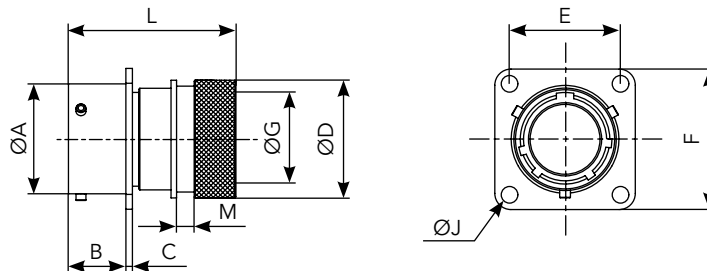


| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | J |
|------------|------------------------|-------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | |
| 8 | 851 00 P 8.. P . 50.. | 851 00 RP 8.. P . 50.. | 36.20 | 41.70 | 12.03 | 11.70 | 1.32 | 15.34 | 15.09 | 20.99 | 10.46 | 3.13 |
| 10 | 851 00 P 10.. P . 50.. | 851 00 RP 10.. P . 50.. | 36.20 | 41.70 | 15.01 | 11.70 | 1.32 | 17.70 | 18.26 | 24.19 | 13.55 | 3.13 |
| 12 | 851 00 P 12.. P . 50.. | 851 00 RP 12.. P . 50.. | 36.20 | 41.70 | 19.07 | 11.70 | 1.32 | 21.69 | 20.62 | 26.54 | 13.96 | 3.13 |
| 14 | 851 00 P 14.. P . 50.. | 851 00 RP 14.. P . 50.. | 36.20 | 41.70 | 22.25 | 11.70 | 1.32 | 23.90 | 23.00 | 28.89 | 17.42 | 3.13 |
| 16 | 851 00 P 16.. P . 50.. | 851 00 RP 16.. P . 50.. | 36.20 | 41.70 | 25.42 | 11.70 | 1.32 | 27.00 | 24.61 | 31.29 | 20.56 | 3.13 |
| 18 | 851 00 P 18.. P . 50.. | 851 00 RP 18.. P . 50.. | 36.91 | 44.46 | 28.60 | 11.70 | 1.32 | 30.50 | 26.97 | 33.69 | 23.66 | 3.13 |
| 20 | 851 00 P 20.. P . 50.. | 851 00 RP 20.. P . 50.. | 43.80 | 50.93 | 31.77 | 14.35 | 2.15 | 33.65 | 29.36 | 36.89 | 23.92 | 3.13 |
| 22 | 851 00 P 22.. P . 50.. | 851 00 RP 22.. P . 50.. | 43.80 | 50.93 | 34.95 | 14.35 | 2.15 | 37.10 | 31.75 | 39.99 | 25.52 | 3.13 |
| 24 | 851 00 P 24.. P . 50.. | 851 00 RP 24.. P . 50.. | 43.80 | 51.40 | 38.12 | 15.20 | 2.15 | 40.00 | 34.92 | 43.15 | 32.00 | 3.81 |

Note: all dimensions are in mm

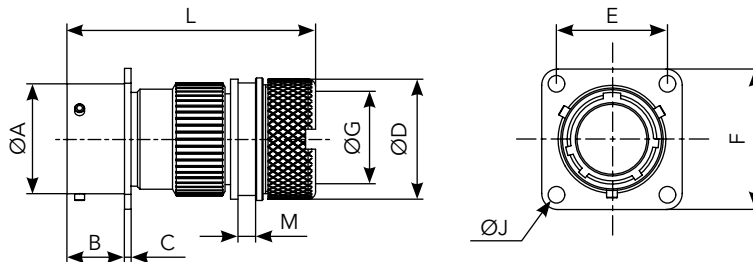
Environmental connectors

Square flange receptacle with straight backshell for heatshrink sleeving



| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | | J | M max |
|------------|-------------------------------------|--------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | Solder | Crimp | | |
| 8 | 851 00 T 8.. P _S . 50.. | 851 00 RT 8.. P _S . 50 .. | 36.70 | 36.00 | 12.03 | 11.70 | 1.32 | 15.35 | 15.09 | 20.99 | 7.20 | 6.70 | 3.13 | 3.70 |
| 10 | 851 00 T 10.. P _S . 50.. | 851 00 RT 10.. P _S . 50.. | 36.70 | 36.00 | 15.01 | 11.70 | 1.32 | 18.15 | 18.26 | 24.19 | 10.20 | 9.40 | 3.13 | 3.70 |
| 12 | 851 00 T 12.. P _S . 50.. | 851 00 RT 12.. P _S . 50.. | 36.70 | 36.00 | 19.07 | 11.70 | 1.32 | 23.45 | 20.62 | 26.54 | 13.20 | 11.95 | 3.13 | 3.70 |
| 14 | 851 00 T 14.. P _S . 50.. | 851 00 RT 14.. P _S . 50.. | 36.70 | 36.00 | 22.25 | 11.70 | 1.32 | 24.25 | 23.00 | 28.89 | 16.10 | 15.15 | 3.13 | 3.70 |
| 16 | 851 00 T 16.. P _S . 50.. | 851 00 RT 16.. P _S . 50.. | 39.00 | 38.30 | 25.42 | 11.70 | 1.32 | 29.55 | 24.61 | 31.29 | 19.25 | 18.05 | 3.13 | 3.70 |
| 18 | 851 00 T 18.. P _S . 50.. | 851 00 RT 18.. P _S . 50.. | 39.00 | 38.30 | 28.60 | 11.70 | 1.32 | 31.75 | 26.97 | 33.69 | 21.30 | 19.95 | 3.13 | 3.70 |
| 20 | 851 00 T 20.. P _S . 50.. | 851 00 RT 20.. P _S . 50.. | 45.30 | 44.20 | 31.77 | 14.35 | 2.15 | 35.85 | 29.36 | 36.89 | 24.40 | 23.05 | 3.13 | 3.70 |
| 22 | 851 00 T 22.. P _S . 50.. | 851 00 RT 22.. P _S . 50.. | 45.30 | 44.20 | 34.95 | 14.35 | 2.15 | 38.20 | 31.75 | 39.99 | 27.50 | 25.55 | 3.13 | 3.70 |
| 24 | 851 00 T 24.. P _S . 50.. | 851 00 RT 24.. P _S . 50.. | 44.00 | 42.60 | 38.12 | 15.20 | 2.15 | 41.30 | 34.92 | 43.15 | 30.60 | 28.65 | 3.81 | 3.70 |

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



| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | G max | J | M max |
|------------|--|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | | |
| 8 | 851 00 T 8.. P _S . 50 ^{38/42} | 851 00 RT 8.. P _S . 50 ^{38/42} | 51.60 | | 12.03 | 11.70 | 1.32 | 18.25 | 15.09 | 20.99 | 7.45 | 3.13 | 3.70 |
| 10 | 851 00 T 10.. P _S . 50 ^{38/42} | 851 00 RT 10.. P _S . 50 ^{38/42} | 51.60 | | 15.01 | 11.70 | 1.32 | 20.25 | 18.26 | 24.19 | 9.00 | 3.13 | 3.70 |
| 12 | 851 00 T 12.. P _S . 50 ^{38/42} | 851 00 RT 12.. P _S . 50 ^{38/42} | 51.60 | | 19.07 | 11.70 | 1.32 | 24.75 | 20.62 | 26.54 | 13.30 | 3.13 | 3.70 |
| 14 | 851 00 T 14.. P _S . 50 ^{38/42} | 851 00 RT 14.. P _S . 50 ^{38/42} | 51.60 | | 22.25 | 11.70 | 1.32 | 27.75 | 23.00 | 28.89 | 16.50 | 3.13 | 3.70 |
| 16 | 851 00 T 16.. P _S . 50 ^{38/42} | 851 00 RT 16.. P _S . 50 ^{38/42} | 51.60 | | 25.42 | 11.70 | 1.32 | 30.05 | 24.61 | 31.29 | 18.50 | 3.13 | 3.70 |
| 18 | 851 00 T 18.. P _S . 50 ^{38/42} | 851 00 RT 18.. P _S . 50 ^{38/42} | 52.00 | | 28.60 | 11.70 | 1.32 | 34.15 | 26.97 | 33.69 | 21.90 | 3.13 | 3.70 |
| 20 | 851 00 T 20.. P _S . 50 ^{38/42} | 851 00 RT 20.. P _S . 50 ^{38/42} | 55.10 | | 31.77 | 14.35 | 2.15 | 37.25 | 29.36 | 36.89 | 25.10 | 3.13 | 3.70 |
| 22 | 851 00 T 22.. P _S . 50 ^{38/42} | 851 00 RT 22.. P _S . 50 ^{38/42} | 55.10 | | 34.95 | 14.35 | 2.15 | 40.45 | 31.75 | 39.99 | 28.20 | 3.13 | 3.70 |
| 24 | 851 00 T 24.. P _S . 50 ^{38/42} | 851 00 RT 24.. P _S . 50 ^{38/42} | 55.10 | | 38.12 | 15.20 | 2.15 | 43.65 | 34.92 | 43.15 | 31.40 | 3.81 | 3.70 |

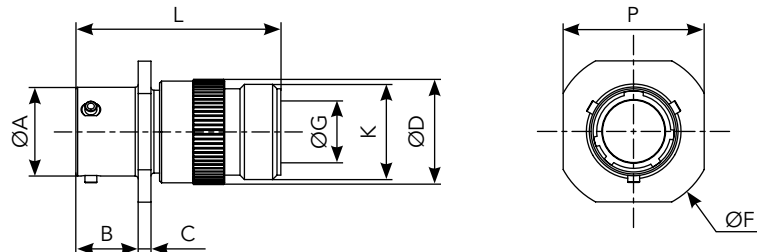
Note: all dimensions are in mm

Environmental connectors

Cable in line receptacle with straight adaptor

Cross reference

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

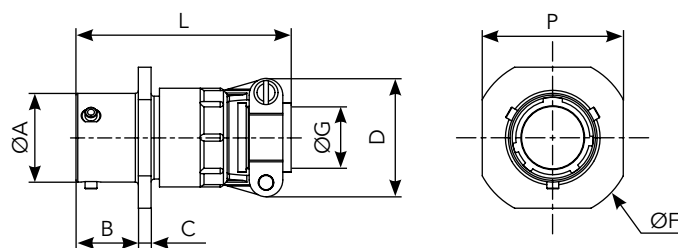


| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | K threading UNEF 2A | P max |
|------------|---|--|--------|-------|-------|-------|-------|-------|-------|-------|---------------------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | |
| 8 | 851 01 A 8.. _S . _P .50.. | 851 01 RA 8.. _S . _P .50.. | 41.00 | | 12.03 | 10.60 | 2.10 | 14.50 | 24.24 | 9.10 | 1/2 28 | 20.99 |
| 10 | 851 01 A 10.. _S . _P .50.. | 851 01 RA 10.. _S . _P .50.. | 41.00 | | 15.01 | 10.60 | 2.10 | 18.70 | 27.44 | 12.08 | 5/8 24 | 24.19 |
| 12 | 851 01 A 12.. _S . _P .50.. | 851 01 RA 12.. _S . _P .50.. | 41.00 | | 19.07 | 10.60 | 2.10 | 21.70 | 29.79 | 15.25 | 3/4 20 | 26.54 |
| 14 | 851 01 A 14.. _S . _P .50.. | 851 01 RA 14.. _S . _P .50.. | 41.00 | | 22.25 | 10.60 | 2.10 | 25.10 | 32.10 | 18.15 | 7/8 20 | 28.89 |
| 16 | 851 01 A 16.. _S . _P .50.. | 851 01 RA 16.. _S . _P .50.. | 41.00 | | 25.42 | 10.60 | 2.10 | 28.13 | 34.59 | 21.32 | 1-20 | 31.29 |
| 18 | 851 01 A 18.. _S . _P .50.. | 851 01 RA 18.. _S . _P .50.. | 41.00 | | 28.60 | 10.60 | 2.10 | 31.38 | 36.94 | 24.32 | 1-3/16 18 | 33.69 |
| 20 | 851 01 A 20.. _S . _P .50.. | 851 01 RA 20.. _S . _P .50.. | 44.00 | | 31.77 | 13.85 | 2.65 | 34.30 | 40.15 | 26.73 | 1-3/16 18 | 36.89 |
| 22 | 851 01 A 22.. _S . _P .50.. | 851 01 RA 22.. _S . _P .50.. | 44.00 | | 34.95 | 13.85 | 2.65 | 37.60 | 42.24 | 30.67 | 1-7/16 18 | 40.00 |
| 24 | 851 01 A 24.. _S . _P .50.. | 851 01 RA 24.. _S . _P .50.. | 44.00 | | 38.12 | 14.70 | 2.65 | 40.70 | 46.44 | 33.08 | 1-7/16 18 | 43.29 |

Cable in line receptacle with straight cable clamp

Cross reference

| | |
|-------|----------------|
| 01 EC | HE 301 B 01 EC |
| | MS 3111 F |
| 01 AC | HE 301 B 01 AC |
| 01 RC | HE 301 B 01 RC |
| | MS 3121 F |



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G | P max |
|------------|---|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | |
| 8 | 851 01 ^{EC} _{AC} 8.. _S . _P .50.. | 851 01 RC 8.. _S . _P .50.. | 48.00 | 47.30 | 12.03 | 10.60 | 2.10 | 19.90 | 24.24 | 3.50 | 20.99 |
| 10 | 851 01 ^{EC} _{AC} 10.. _S . _P .50.. | 851 01 RC 10.. _S . _P .50.. | 48.00 | 47.30 | 15.01 | 10.60 | 2.10 | 21.50 | 27.44 | 5.00 | 24.19 |
| 12 | 851 01 ^{EC} _{AC} 12.. _S . _P .50.. | 851 01 RC 12.. _S . _P .50.. | 48.00 | 47.30 | 19.07 | 10.60 | 2.10 | 25.00 | 29.79 | 8.20 | 26.54 |
| 14 | 851 01 ^{EC} _{AC} 14.. _S . _P .50.. | 851 01 RC 14.. _S . _P .50.. | 48.00 | 47.30 | 22.25 | 10.60 | 2.10 | 27.80 | 32.10 | 10.00 | 28.89 |
| 16 | 851 01 ^{EC} _{AC} 16.. _S . _P .50.. | 851 01 RC 16.. _S . _P .50.. | 51.00 | 50.50 | 25.42 | 10.60 | 2.10 | 29.40 | 34.59 | 13.00 | 31.29 |
| 18 | 851 01 ^{EC} _{AC} 18.. _S . _P .50.. | 851 01 RC 18.. _S . _P .50.. | 51.00 | 50.50 | 28.60 | 10.60 | 2.10 | 35.30 | 36.94 | 16.00 | 33.69 |
| 20 | 851 01 ^{EC} _{AC} 20.. _S . _P .50.. | 851 01 RC 20.. _S . _P .50.. | 53.00 | 51.50 | 31.77 | 13.85 | 2.65 | 35.30 | 40.14 | 16.00 | 36.89 |
| 22 | 851 01 ^{EC} _{AC} 22.. _S . _P .50.. | 851 01 RC 22.. _S . _P .50.. | 53.00 | 51.50 | 34.95 | 13.85 | 2.65 | 41.10 | 43.24 | 19.30 | 40.00 |
| 24 | 851 01 ^{EC} _{AC} 24.. _S . _P .50.. | 851 01 RC 24.. _S . _P .50.. | 53.00 | 51.50 | 38.12 | 14.70 | 2.65 | 42.40 | 46.44 | 20.60 | 43.29 |

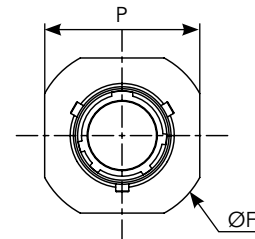
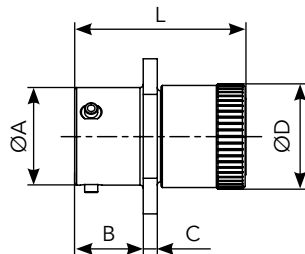
Note: all dimensions are in mm

Environmental connectors

Cable in line receptacle with backnut

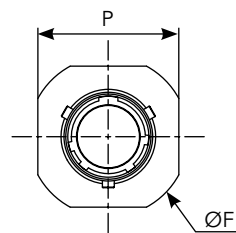
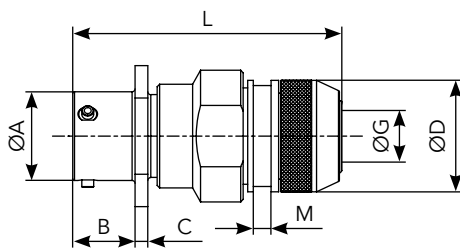
Cross reference

| | |
|------|---------------|
| 01 E | HE 301 B 01 E |
| | MS 3111 E |
| 01 R | HE 301 B 01 R |
| | MS 3121 E |



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | P max |
|------------|-----------------------------------|-----------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | |
| 8 | 851 01 E 8.. _S . 50.. | 851 01 R 8.. _S . 50.. | 32.70 | 32.00 | 12.03 | 10.60 | 2.10 | 13.50 | 24.24 | 20.99 |
| 10 | 851 01 E 10.. _S . 50.. | 851 01 R 10.. _S . 50.. | 32.70 | 32.00 | 15.01 | 10.60 | 2.10 | 16.70 | 27.44 | 24.19 |
| 12 | 851 01 E 12.. _S . 50.. | 851 01 R 12.. _S . 50.. | 32.70 | 32.00 | 19.07 | 10.60 | 2.10 | 19.90 | 29.79 | 26.54 |
| 14 | 851 01 E 14.. _S . 50.. | 851 01 R 14.. _S . 50.. | 32.70 | 32.00 | 22.25 | 10.60 | 2.10 | 23.40 | 32.10 | 28.89 |
| 16 | 851 01 E 16.. _S . 50.. | 851 01 R 16.. _S . 50.. | 32.70 | 32.00 | 25.42 | 10.60 | 2.10 | 26.60 | 34.59 | 31.29 |
| 18 | 851 01 E 18.. _S . 50.. | 851 01 R 18.. _S . 50.. | 32.70 | 32.00 | 28.60 | 10.60 | 2.10 | 29.50 | 36.94 | 33.69 |
| 20 | 851 01 E 20.. _S . 50.. | 851 01 R 20.. _S . 50.. | 34.50 | 33.40 | 31.77 | 13.85 | 2.65 | 32.70 | 40.14 | 36.89 |
| 22 | 851 01 E 22.. _S . 50.. | 851 01 R 22.. _S . 50.. | 34.50 | 33.40 | 34.95 | 13.85 | 2.65 | 36.00 | 43.24 | 40.00 |
| 24 | 851 01 E 24.. _S . 50.. | 851 01 R 24.. _S . 50.. | 34.50 | 33.40 | 38.12 | 14.70 | 2.65 | 39.10 | 46.44 | 43.29 |

Cable in line receptacle with removable straight backshell for screen termination and heatshrink sleeving



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | M max | P max |
|------------|-----------------------------------|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | |
| 8 | 851 01 G 8.. _S . 50.. | 851 01 RG 8.. _S . 50.. | 54.00 | | 12.03 | 10.60 | 2.10 | 16.30 | 24.24 | 7.45 | 3.60 | 20.99 |
| 10 | 851 01 G 10.. _S . 50.. | 851 01 RG 10.. _S . 50.. | 54.00 | | 15.01 | 10.60 | 2.10 | 18.30 | 27.44 | 10.30 | 3.60 | 24.19 |
| 12 | 851 01 G 12.. _S . 50.. | 851 01 RG 12.. _S . 50.. | 54.00 | | 19.07 | 10.60 | 2.10 | 22.30 | 29.79 | 13.20 | 3.60 | 26.54 |
| 14 | 851 01 G 14.. _S . 50.. | 851 01 RG 14.. _S . 50.. | 54.00 | | 22.25 | 10.60 | 2.10 | 25.30 | 32.10 | 16.50 | 3.60 | 28.89 |
| 16 | 851 01 G 16.. _S . 50.. | 851 01 RG 16.. _S . 50.. | 54.00 | | 25.42 | 10.60 | 2.10 | 28.30 | 34.59 | 19.35 | 3.60 | 31.29 |
| 18 | 851 01 G 18.. _S . 50.. | 851 01 RG 18.. _S . 50.. | 54.00 | | 28.60 | 10.60 | 2.10 | 32.30 | 36.94 | 21.60 | 3.60 | 33.69 |
| 20 | 851 01 G 20.. _S . 50.. | 851 01 RG 20.. _S . 50.. | 59.30 | | 31.77 | 13.85 | 2.65 | 34.30 | 40.15 | 24.80 | 3.60 | 36.89 |
| 22 | 851 01 G 22.. _S . 50.. | 851 01 RG 22.. _S . 50.. | 59.30 | | 34.95 | 13.85 | 2.65 | 38.30 | 42.24 | 27.90 | 3.60 | 40.00 |
| 24 | 851 01 G 24.. _S . 50.. | 851 01 RG 24.. _S . 50.. | 59.30 | | 38.12 | 14.70 | 2.65 | 41.30 | 46.44 | 31.00 | 3.60 | 43.29 |

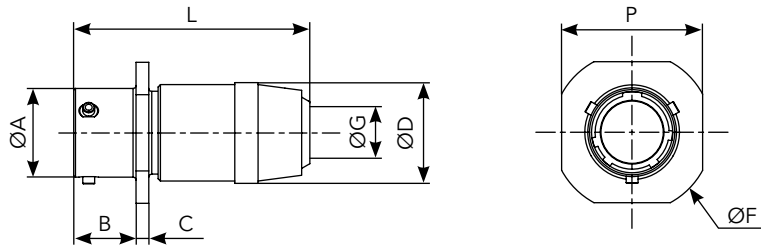
Note: all dimensions are in mm

Environmental connectors

Cable in line receptacle with straight sealing gland backshell

Cross reference

01 J HE 301 B 01 J

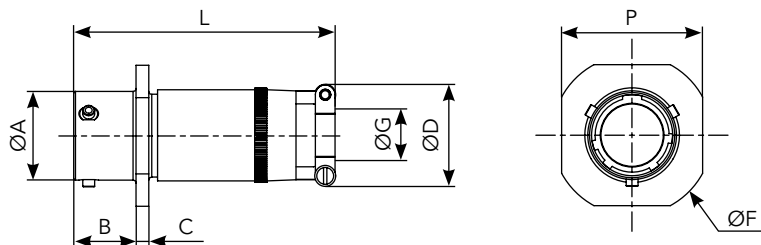


| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | | P max |
|------------|----------------------------------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | min | max | |
| 8 | 851 01 J 8.. _S .50.. | - | 47.60 | - | 12.03 | 10.60 | 2.10 | 14.40 | 24.24 | 5.02 | 5.84 | 20.99 |
| 10 | 851 01 J 10.. _S .50.. | - | 47.60 | - | 15.01 | 10.60 | 2.10 | 17.60 | 27.44 | 5.94 | 6.76 | 24.19 |
| 12 | 851 01 J 12.. _S .50.. | - | 48.70 | - | 19.07 | 10.60 | 2.10 | 21.10 | 29.79 | 9.34 | 10.16 | 26.54 |
| 14 | 851 01 J 14.. _S .50.. | - | 53.50 | - | 22.25 | 10.60 | 2.10 | 24.40 | 32.10 | 11.32 | 12.14 | 28.89 |
| 16 | 851 01 J 16.. _S .50.. | - | 59.00 | - | 25.42 | 10.60 | 2.10 | 27.60 | 34.59 | 14.73 | 15.55 | 31.29 |
| 18 | 851 01 J 18.. _S .50.. | - | 65.00 | - | 28.60 | 10.60 | 2.10 | 30.80 | 36.94 | 16.00 | 16.82 | 33.69 |
| 20 | 851 01 J 20.. _S .50.. | - | 79.10 | - | 31.77 | 13.85 | 2.65 | 34.10 | 40.15 | 16.89 | 17.71 | 36.89 |
| 22 | 851 01 J 22.. _S .50.. | - | 80.00 | - | 34.95 | 13.85 | 2.65 | 37.30 | 42.24 | 17.78 | 18.60 | 40.00 |
| 24 | 851 01 J 24.. _S .50.. | - | 90.00 | - | 38.12 | 14.70 | 2.65 | 40.50 | 46.44 | 20.34 | 21.16 | 43.29 |

Cable in line receptacle with straight sealing gland and cable clamp backshell

Cross reference

01 JC HE 301 B 01 J

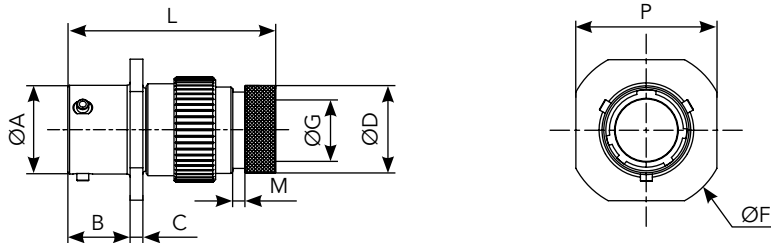


| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G | | P max |
|------------|-----------------------------------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | min | max | |
| 8 | 851 01 JC 8.. _S .50.. | - | 57.68 | - | 12.03 | 10.60 | 2.10 | 19.90 | 24.24 | 5.02 | 5.84 | 20.99 |
| 10 | 851 01 JC 10.. _S .50.. | - | 57.68 | - | 15.01 | 10.60 | 2.10 | 21.50 | 27.44 | 5.94 | 6.76 | 24.19 |
| 12 | 851 01 JC 12.. _S .50.. | - | 61.24 | - | 19.07 | 10.60 | 2.10 | 25.00 | 29.79 | 9.34 | 10.16 | 26.54 |
| 14 | 851 01 JC 14.. _S .50.. | - | 66.01 | - | 22.25 | 10.60 | 2.10 | 27.80 | 32.10 | 11.32 | 12.14 | 28.89 |
| 16 | 851 01 JC 16.. _S .50.. | - | 74.75 | - | 25.42 | 10.60 | 2.10 | 29.40 | 34.59 | 14.73 | 15.50 | 31.29 |
| 18 | 851 01 JC 18.. _S .50.. | - | 80.57 | - | 28.60 | 10.60 | 2.10 | 35.30 | 36.94 | 16.00 | 16.82 | 33.69 |
| 20 | 851 01 JC 20.. _S .50.. | - | 91.69 | - | 31.77 | 13.85 | 2.65 | 35.30 | 40.15 | 16.89 | 17.71 | 36.89 |
| 22 | 851 01 JC 22.. _S .50.. | - | 95.66 | - | 34.95 | 13.85 | 2.65 | 41.10 | 42.24 | 17.78 | 18.60 | 40.00 |
| 24 | 851 01 JC 24.. _S .50.. | - | 101.22 | - | 38.12 | 14.70 | 2.65 | 42.40 | 46.44 | 20.34 | 21.16 | 43.29 |

Note: all dimensions are in mm

Environmental connectors

Cable connecting receptacle with removable straight backshell for heatshrink sleeving

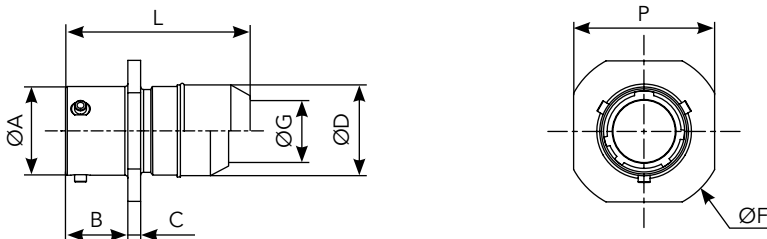


| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | P max | M max |
|------------|----------------------------------|-----------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | |
| 8 | 851 01 M 8.. ₅ .50.. | 851 01 RM 8.. ₅ .50.. | 50.00 | | 12.03 | 10.60 | 2.10 | 13.55 | 24.24 | 7.05 | 20.99 | 3.50 |
| 10 | 851 01 M 10.. ₅ .50.. | 851 01 RM 10.. ₅ .50.. | 50.00 | | 15.01 | 10.60 | 2.10 | 15.35 | 27.44 | 9.90 | 24.19 | 3.50 |
| 12 | 851 01 M 12.. ₅ .50.. | 851 01 RM 12.. ₅ .50.. | 50.00 | | 19.07 | 10.60 | 2.10 | 19.48 | 29.79 | 12.60 | 26.54 | 3.50 |
| 14 | 851 01 M 14.. ₅ .50.. | 851 01 RM 14.. ₅ .50.. | 50.00 | | 22.25 | 10.60 | 2.10 | 21.30 | 32.10 | 15.90 | 28.89 | 3.50 |
| 16 | 851 01 M 16.. ₅ .50.. | 851 01 RM 16.. ₅ .50.. | 50.00 | | 25.42 | 10.60 | 2.10 | 24.50 | 34.59 | 18.95 | 31.29 | 3.50 |
| 18 | 851 01 M 18.. ₅ .50.. | 851 01 RM 18.. ₅ .50.. | 50.00 | | 28.60 | 10.60 | 2.10 | 26.45 | 36.94 | 20.90 | 33.69 | 3.50 |
| 20 | 851 01 M 20.. ₅ .50.. | 851 01 RM 20.. ₅ .50.. | 53.30 | | 31.77 | 13.85 | 2.65 | 30.75 | 40.15 | 23.70 | 36.89 | 3.50 |
| 22 | 851 01 M 22.. ₅ .50.. | 851 01 RM 22.. ₅ .50.. | 53.30 | | 34.95 | 13.85 | 2.65 | 34.24 | 42.24 | 26.60 | 40.00 | 3.50 |
| 24 | 851 01 M 24.. ₅ .50.. | 851 01 RM 24.. ₅ .50.. | 53.30 | | 38.12 | 14.70 | 2.65 | 36.47 | 46.44 | 29.30 | 43.29 | 3.50 |

Cable connecting receptacle with straight backshell for potting

Cross reference

| | |
|-------|----------------|
| 01 P | HE 301 B 01 P |
| | MS 3111 P |
| 01 RP | HE 301 B 01 RP |
| | MS 3121 P |

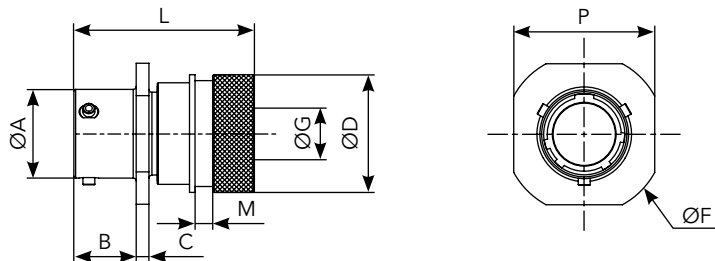


| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | P max |
|------------|----------------------------------|-----------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | |
| 8 | 851 01 P 8.. ₅ .50.. | 851 01 RP 8.. ₅ .50.. | 36.20 | 41.70 | 12.03 | 10.60 | 2.10 | 15.34 | 24.24 | 10.46 | 20.99 |
| 10 | 851 01 P 10.. ₅ .50.. | 851 01 RP 10.. ₅ .50.. | 36.20 | 41.70 | 15.01 | 10.60 | 2.10 | 17.70 | 27.44 | 13.55 | 24.19 |
| 12 | 851 01 P 12.. ₅ .50.. | 851 01 RP 12.. ₅ .50.. | 36.20 | 41.70 | 19.07 | 10.60 | 2.10 | 21.69 | 29.79 | 13.96 | 26.54 |
| 14 | 851 01 P 14.. ₅ .50.. | 851 01 RP 14.. ₅ .50.. | 36.20 | 41.70 | 22.25 | 10.60 | 2.10 | 23.90 | 32.10 | 17.42 | 28.89 |
| 16 | 851 01 P 16.. ₅ .50.. | 851 01 RP 16.. ₅ .50.. | 36.20 | 41.70 | 25.42 | 10.60 | 2.10 | 27.00 | 34.59 | 20.56 | 31.29 |
| 18 | 851 01 P 18.. ₅ .50.. | 851 01 RP 18.. ₅ .50.. | 36.91 | 44.46 | 28.60 | 10.60 | 2.10 | 30.50 | 36.94 | 23.66 | 33.69 |
| 20 | 851 01 P 20.. ₅ .50.. | 851 01 RP 20.. ₅ .50.. | 43.80 | 50.93 | 31.77 | 13.85 | 2.65 | 33.65 | 40.15 | 23.92 | 36.89 |
| 22 | 851 01 P 22.. ₅ .50.. | 851 01 RP 22.. ₅ .50.. | 43.80 | 50.93 | 34.95 | 13.85 | 2.65 | 37.10 | 42.24 | 25.52 | 40.00 |
| 24 | 851 01 P 24.. ₅ .50.. | 851 01 RP 24.. ₅ .50.. | 43.80 | 50.93 | 38.12 | 14.70 | 2.65 | 40.00 | 46.44 | 32.00 | 43.29 |

Note: all dimensions are in mm

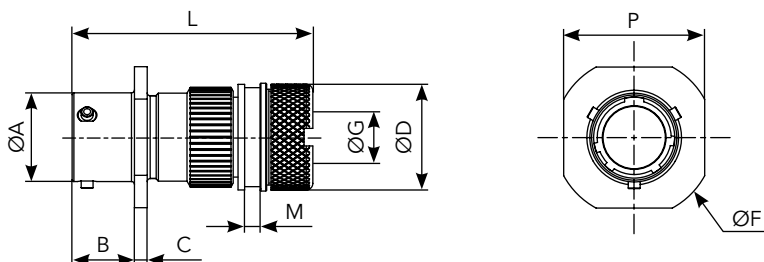
Environmental connectors

Cable in line receptacle with straight backshell for heatshrink sleeving



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | | P max | M max |
|------------|------------------------------------|-------------------------------------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | solder | crimp | | |
| 8 | 851 01 T 8.. P _S .50.. | 851 01 RT 8.. P _S .50.. | 36.70 | 36.00 | 12.03 | 10.60 | 2.10 | 15.35 | 24.24 | 7.20 | 6.70 | 20.99 | 3.70 |
| 10 | 851 01 T 10.. P _S .50.. | 851 01 RT 10.. P _S .50.. | 36.70 | 36.00 | 15.01 | 10.60 | 2.10 | 18.15 | 27.44 | 10.20 | 9.40 | 24.19 | 3.70 |
| 12 | 851 01 T 12.. P _S .50.. | 851 01 RT 12.. P _S .50.. | 36.70 | 36.00 | 19.07 | 10.60 | 2.10 | 23.45 | 29.70 | 13.20 | 11.95 | 26.54 | 3.70 |
| 14 | 851 01 T 14.. P _S .50.. | 851 01 RT 14.. P _S .50.. | 36.70 | 36.00 | 22.25 | 10.60 | 2.10 | 24.25 | 32.10 | 16.10 | 15.15 | 28.89 | 3.70 |
| 16 | 851 01 T 16.. P _S .50.. | 851 01 RT 16.. P _S .50.. | 39.00 | 38.30 | 25.42 | 10.60 | 2.10 | 29.55 | 34.59 | 19.25 | 18.05 | 31.29 | 3.70 |
| 18 | 851 01 T 18.. P _S .50.. | 851 01 RT 18.. P _S .50.. | 39.00 | 38.30 | 28.60 | 10.60 | 2.10 | 31.75 | 36.94 | 21.30 | 19.95 | 33.69 | 3.70 |
| 20 | 851 01 T 20.. P _S .50.. | 851 01 RT 20.. P _S .50.. | 45.30 | 44.20 | 31.77 | 13.85 | 2.65 | 35.85 | 40.15 | 24.40 | 23.05 | 36.89 | 3.70 |
| 22 | 851 01 T 22.. P _S .50.. | 851 01 RT 22.. P _S .50.. | 45.30 | 44.20 | 34.95 | 13.85 | 2.65 | 38.20 | 42.24 | 27.50 | 25.55 | 40.00 | 3.70 |
| 24 | 851 01 T 24.. P _S .50.. | 851 01 RT 24.. P _S .50.. | 44.00 | 42.60 | 38.12 | 14.70 | 2.65 | 41.30 | 46.44 | 30.60 | 28.65 | 43.29 | 3.70 |

Cable connecting receptacle with removable straight backshell for screen termination and heatshrink sleeving (38 & 42 suffix)



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | M max | P max |
|------------|--|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | |
| 8 | 851 01 T 8.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 8.. P _S .50 ³⁸ / ₄₂ | 51.60 | | 12.03 | 10.60 | 2.10 | 18.25 | 24.24 | 7.45 | 3.70 | 20.99 |
| 10 | 851 01 T 10.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 10.. P _S .50 ³⁸ / ₄₂ | 51.60 | | 15.01 | 10.60 | 2.10 | 20.25 | 27.44 | 9.00 | 3.70 | 24.19 |
| 12 | 851 01 T 12.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 12.. P _S .50 ³⁸ / ₄₂ | 51.60 | | 19.07 | 10.60 | 2.10 | 24.75 | 29.79 | 13.30 | 3.70 | 26.54 |
| 14 | 851 01 T 14.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 14.. P _S .50 ³⁸ / ₄₂ | 51.60 | | 22.25 | 10.60 | 2.10 | 27.75 | 32.10 | 16.50 | 3.70 | 28.89 |
| 16 | 851 01 T 16.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 16.. P _S .50 ³⁸ / ₄₂ | 51.60 | | 25.42 | 10.60 | 2.10 | 30.05 | 34.59 | 18.50 | 3.70 | 31.29 |
| 18 | 851 01 T 18.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 18.. P _S .50 ³⁸ / ₄₂ | 52.00 | | 28.60 | 10.60 | 2.10 | 34.15 | 36.94 | 21.90 | 3.70 | 33.69 |
| 20 | 851 01 T 20.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 20.. P _S .50 ³⁸ / ₄₂ | 55.10 | | 31.77 | 13.85 | 2.65 | 37.25 | 40.15 | 25.10 | 3.70 | 36.89 |
| 22 | 851 01 T 22.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 22.. P _S .50 ³⁸ / ₄₂ | 55.10 | | 34.95 | 13.85 | 2.65 | 40.45 | 42.24 | 28.20 | 3.70 | 40.00 |
| 24 | 851 01 T 24.. P _S .50 ³⁸ / ₄₂ | 851 01 RT 24.. P _S .50 ³⁸ / ₄₂ | 55.10 | | 38.12 | 14.70 | 2.65 | 43.65 | 46.44 | 31.40 | 3.70 | 43.29 |

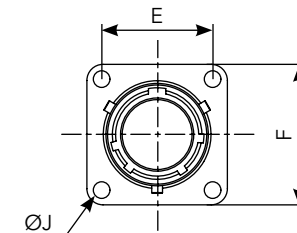
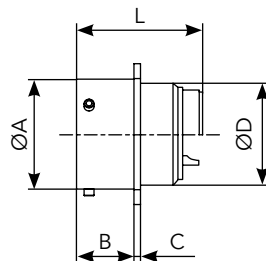
Note: all dimensions are in mm

Environmental connectors

Square flange receptacle not accepting backshell

Cross reference

| | |
|------|---------------|
| 02 E | HE 301 B 02 E |
| | MS 3112 E |
| | VG 95328 H |
| 02 R | HE 301 B 02 R |
| | MS 3122 E |
| | VG 95328 C |

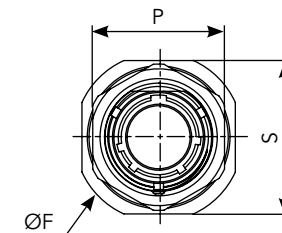
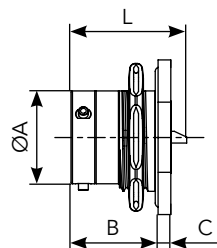


| Shell size | Part numbers | | L max | | A | B max | C max | D max | E | F max | J |
|------------|-------------------------------------|-------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | |
| 8 | 851 02 E 8.. P _S . 50.. | 851 02 R 8.. P _S . 50.. | 25.18 | 32.35 | 12.03 | 11.70 | 1.32 | 10.84 | 15.09 | 20.99 | 3.13 |
| 10 | 851 02 E 10.. P _S . 50.. | 851 02 R 10.. P _S . 50.. | 25.10 | 32.35 | 15.01 | 11.70 | 1.32 | 13.99 | 18.26 | 24.19 | 3.13 |
| 12 | 851 02 E 12.. P _S . 50.. | 851 02 R 12.. P _S . 50.. | 25.10 | 32.35 | 19.07 | 11.70 | 1.32 | 17.37 | 20.62 | 26.54 | 3.13 |
| 14 | 851 02 E 14.. P _S . 50.. | 851 02 R 14.. P _S . 50.. | 25.10 | 32.35 | 22.25 | 11.70 | 1.32 | 20.57 | 23.00 | 28.89 | 3.13 |
| 16 | 851 02 E 16.. P _S . 50.. | 851 02 R 16.. P _S . 50.. | 25.10 | 32.35 | 25.42 | 11.70 | 1.32 | 23.72 | 24.61 | 31.29 | 3.13 |
| 18 | 851 02 E 18.. P _S . 50.. | 851 02 R 18.. P _S . 50.. | 25.10 | 32.35 | 28.60 | 11.70 | 1.32 | 26.69 | 26.97 | 33.69 | 3.13 |
| 20 | 851 02 E 20.. P _S . 50.. | 851 02 R 20.. P _S . 50.. | 26.67 | 33.95 | 31.77 | 14.35 | 2.15 | 29.89 | 29.36 | 36.89 | 3.13 |
| 22 | 851 02 E 22.. P _S . 50.. | 851 02 R 22.. P _S . 50.. | 26.67 | 33.95 | 34.95 | 14.35 | 2.15 | 33.04 | 31.75 | 39.99 | 3.13 |
| 24 | 851 02 E 24.. P _S . 50.. | 851 02 R 24.. P _S . 50.. | 26.67 | 33.95 | 38.12 | 15.20 | 2.15 | 36.24 | 34.92 | 43.15 | 3.81 |

Jam nut receptacle not accepting backshell

Cross reference

| | |
|------|---------------|
| 07 A | HE 301 B 07 A |
|------|---------------|



| Shell size | Part numbers | | L max | | A | B max | C max | F max | P max | S max |
|------------|-------------------------------------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | |
| 8 | 851 07 A 8.. P _S . 50.. | - | 25.18 | - | 12.03 | 17.90 | 2.64 | 26.94 | 19.29 | 23.94 |
| 10 | 851 07 A 10.. P _S . 50.. | - | 25.10 | - | 15.01 | 17.90 | 2.64 | 30.14 | 22.38 | 26.94 |
| 12 | 851 07 A 12.. P _S . 50.. | - | 25.10 | - | 19.07 | 17.90 | 2.64 | 34.94 | 27.13 | 31.74 |
| 14 | 851 07 A 14.. P _S . 50.. | - | 25.10 | - | 22.25 | 17.90 | 2.64 | 38.04 | 30.33 | 34.94 |
| 16 | 851 07 A 16.. P _S . 50.. | - | 25.10 | - | 25.42 | 17.90 | 2.64 | 41.24 | 33.48 | 38.24 |
| 18 | 851 07 A 18.. P _S . 50.. | - | 25.10 | - | 28.60 | 17.90 | 2.64 | 44.44 | 36.68 | 41.34 |
| 20 | 851 07 A 20.. P _S . 50.. | - | 26.67 | - | 31.77 | 22.45 | 3.44 | 49.14 | 39.83 | 46.04 |
| 22 | 851 07 A 22.. P _S . 50.. | - | 26.67 | - | 34.95 | 22.45 | 3.44 | 52.24 | 43.03 | 49.24 |
| 24 | 851 07 A 24.. P _S . 50.. | - | 26.67 | - | 38.12 | 23.30 | 3.44 | 55.54 | 46.18 | 52.74 |

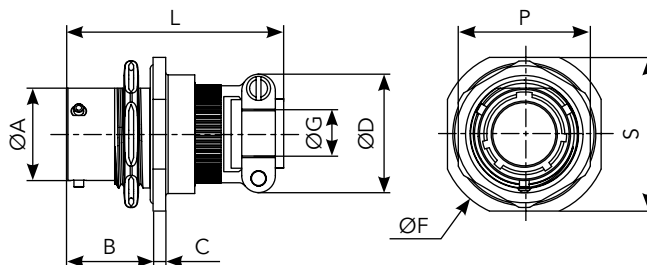
Note: all dimensions are in mm

Environmental connectors

Jam nut receptacle with straight cable clamp

Cross reference

| | |
|-------|----------------|
| 07 EC | HE 301 B 07 EC |
| | MS 3114 F |
| 07 AC | HE 301 B 07 AC |
| 07 RC | HE 301 B 07 RC |
| | MS 3124 F |
| | VG 95328 E |

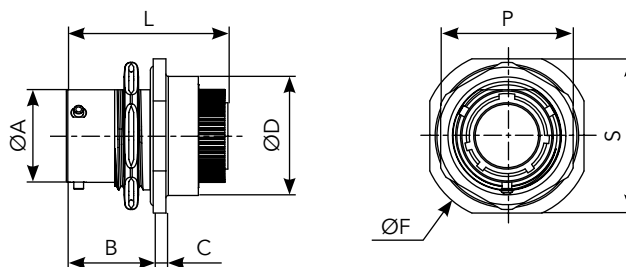


| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G | P max | S max |
|------------|-----------------------|-----------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | |
| 8 | 851 07 EC 8.. P 50.. | 851 07 RC 8.. P 50.. | 49.31 | 49.10 | 12.03 | 17.90 | 2.64 | 19.90 | 26.94 | 3.50 | 19.29 | 23.94 |
| 10 | 851 07 EC 10.. P 50.. | 851 07 RC 10.. P 50.. | 49.31 | 49.10 | 15.01 | 17.90 | 2.64 | 21.50 | 30.14 | 5.00 | 22.38 | 26.94 |
| 12 | 851 07 EC 12.. P 50.. | 851 07 RC 12.. P 50.. | 49.17 | 49.10 | 19.07 | 17.90 | 2.64 | 25.00 | 34.94 | 8.20 | 27.13 | 31.74 |
| 14 | 851 07 EC 14.. P 50.. | 851 07 RC 14.. P 50.. | 49.17 | 49.10 | 22.25 | 17.90 | 2.64 | 27.80 | 38.04 | 10.00 | 30.33 | 34.94 |
| 16 | 851 07 EC 16.. P 50.. | 851 07 RC 16.. P 50.. | 52.34 | 52.20 | 25.42 | 17.90 | 2.64 | 29.40 | 41.24 | 13.00 | 33.48 | 38.24 |
| 18 | 851 07 EC 18.. P 50.. | 851 07 RC 18.. P 50.. | 53.22 | 53.10 | 28.60 | 17.90 | 2.64 | 35.30 | 44.44 | 16.00 | 36.68 | 41.34 |
| 20 | 851 07 EC 20.. P 50.. | 851 07 RC 20.. P 50.. | 58.10 | 58.00 | 31.77 | 22.45 | 3.44 | 35.30 | 49.14 | 16.00 | 39.83 | 46.04 |
| 22 | 851 07 EC 22.. P 50.. | 851 07 RC 22.. P 50.. | 58.10 | 58.00 | 34.95 | 22.45 | 3.44 | 41.10 | 52.24 | 19.30 | 43.03 | 49.24 |
| 24 | 851 07 EC 24.. P 50.. | 851 07 RC 24.. P 50.. | 58.10 | 58.00 | 38.12 | 23.30 | 3.44 | 42.40 | 55.54 | 20.60 | 46.18 | 52.74 |

Jam nut receptacle with backnut

Cross reference

| | |
|------|---------------|
| 07 E | HE 301 B 07 E |
| | MS 3114 E |
| 07 R | HE 301 B 07 R |
| | MS 3124 E |
| | VG 95328 D |



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | P max | S max |
|------------|----------------------|----------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | |
| 8 | 851 07 E 8.. P 50.. | 851 07 R 8.. P 50.. | 34.10 | 33.50 | 12.03 | 17.90 | 2.64 | 18.50 | 26.94 | 19.29 | 23.94 |
| 10 | 851 07 E 10.. P 50.. | 851 07 R 10.. P 50.. | 34.10 | 33.50 | 15.01 | 17.90 | 2.64 | 21.70 | 30.14 | 22.38 | 26.94 |
| 12 | 851 07 E 12.. P 50.. | 851 07 R 12.. P 50.. | 34.10 | 33.50 | 19.07 | 17.90 | 2.64 | 24.90 | 34.94 | 27.13 | 31.74 |
| 14 | 851 07 E 14.. P 50.. | 851 07 R 14.. P 50.. | 34.10 | 33.50 | 22.25 | 17.90 | 2.64 | 28.10 | 38.04 | 30.33 | 34.94 |
| 16 | 851 07 E 16.. P 50.. | 851 07 R 16.. P 50.. | 34.10 | 33.50 | 25.42 | 17.90 | 2.64 | 31.20 | 41.24 | 33.48 | 38.24 |
| 18 | 851 07 E 18.. P 50.. | 851 07 R 18.. P 50.. | 34.10 | 33.50 | 28.60 | 17.90 | 2.64 | 34.40 | 44.44 | 36.68 | 41.34 |
| 20 | 851 07 E 20.. P 50.. | 851 07 R 20.. P 50.. | 39.30 | 37.90 | 31.77 | 22.45 | 3.44 | 38.30 | 49.14 | 39.83 | 46.04 |
| 22 | 851 07 E 22.. P 50.. | 851 07 R 22.. P 50.. | 39.30 | 37.90 | 34.95 | 22.45 | 3.44 | 41.50 | 52.24 | 43.03 | 49.24 |
| 24 | 851 07 E 24.. P 50.. | 851 07 R 24.. P 50.. | 39.30 | 37.90 | 38.12 | 22.30 | 3.44 | 44.70 | 55.54 | 46.18 | 52.74 |

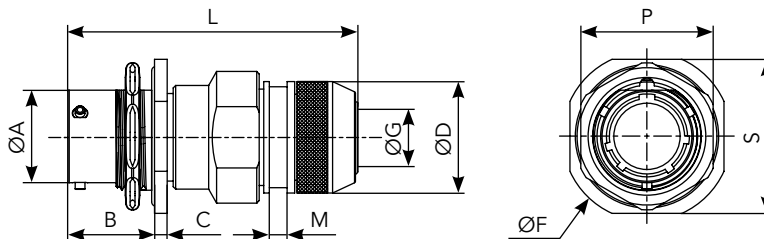
Note: all dimensions are in mm

Environmental connectors

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

Cross reference

| | |
|-------|------------|
| 07 G | |
| 07 RG | VG 95328 T |

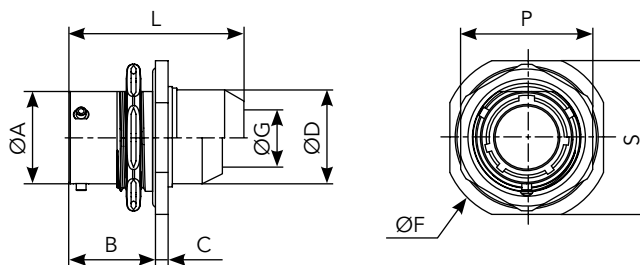


| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | M max | P max | S max |
|------------|---------------------------------|----------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | | |
| 8 | 851 07 G 8.. _S . 50 | 851 07 RG 8.. _S . 50 | 62.20 | | 12.03 | 17.90 | 2.64 | 16.30 | 26.94 | 7.45 | 3.60 | 19.29 | 23.94 |
| 10 | 851 07 G 10.. _S . 50 | 851 07 RG 10.. _S . 50 | 62.20 | | 15.01 | 17.90 | 2.64 | 18.30 | 30.14 | 10.30 | 3.60 | 22.38 | 26.94 |
| 12 | 851 07 G 12.. _S . 50 | 851 07 RG 12.. _S . 50 | 62.20 | | 19.07 | 17.90 | 2.64 | 22.30 | 34.94 | 13.20 | 3.60 | 27.13 | 31.74 |
| 14 | 851 07 G 14.. _S . 50 | 851 07 RG 14.. _S . 50 | 62.40 | | 22.25 | 17.90 | 2.64 | 25.30 | 38.04 | 16.50 | 3.60 | 30.33 | 34.94 |
| 16 | 851 07 G 16.. _S . 50 | 851 07 RG 16.. _S . 50 | 62.40 | | 25.42 | 17.90 | 2.64 | 28.30 | 41.24 | 19.35 | 3.60 | 33.48 | 38.24 |
| 18 | 851 07 G 18.. _S . 50 | 851 07 RG 18.. _S . 50 | 62.40 | | 28.60 | 17.90 | 2.64 | 32.30 | 44.44 | 21.60 | 3.60 | 36.68 | 41.34 |
| 20 | 851 07 G 20.. _S . 50 | 851 07 RG 20.. _S . 50 | 67.50 | | 31.77 | 22.45 | 3.44 | 34.30 | 49.14 | 24.80 | 3.60 | 39.83 | 46.04 |
| 22 | 851 07 G 22.. _S . 50 | 851 07 RG 22.. _S . 50 | 67.50 | | 34.95 | 22.45 | 3.44 | 38.30 | 52.24 | 27.90 | 3.60 | 43.03 | 49.24 |
| 24 | 851 07 G 24.. _S . 50 | 851 07 RG 24.. _S . 50 | 67.50 | | 38.12 | 23.30 | 3.44 | 41.30 | 55.54 | 31.00 | 3.60 | 46.18 | 52.74 |

Jam nut receptacle with straight backshell for potting

Cross reference

| | |
|-------|----------------|
| 07 P | HE 301 B 07 P |
| | MS 3114 P |
| 07 RP | HE 301 B 07 RP |
| | MS 3124 P |



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | P max | S max |
|------------|-----------------------------------|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | |
| 8 | 851 07 P 8.. _S . 50.. | 851 07 RP 8.. _S . 50.. | 34.30 | 39.80 | 12.03 | 17.90 | 2.64 | 15.34 | 26.94 | 10.46 | 19.29 | 23.94 |
| 10 | 851 07 P 10.. _S . 50.. | 851 07 RP 10.. _S . 50.. | 34.30 | 39.80 | 15.01 | 17.90 | 2.64 | 17.70 | 30.14 | 13.55 | 22.38 | 26.94 |
| 12 | 851 07 P 12.. _S . 50.. | 851 07 RP 12.. _S . 50.. | 34.30 | 39.80 | 19.07 | 17.90 | 2.64 | 21.69 | 34.94 | 13.96 | 27.13 | 31.74 |
| 14 | 851 07 P 14.. _S . 50.. | 851 07 RP 14.. _S . 50.. | 34.30 | 39.80 | 22.25 | 17.90 | 2.64 | 23.90 | 38.04 | 17.42 | 30.33 | 34.94 |
| 16 | 851 07 P 16.. _S . 50.. | 851 07 RP 16.. _S . 50.. | 34.30 | 39.80 | 25.42 | 17.90 | 2.64 | 27.00 | 41.24 | 20.56 | 33.48 | 38.24 |
| 18 | 851 07 P 18.. _S . 50.. | 851 07 RP 18.. _S . 50.. | 34.10 | 41.80 | 28.60 | 17.90 | 2.64 | 30.50 | 44.44 | 23.66 | 36.68 | 41.34 |
| 20 | 851 07 P 20.. _S . 50.. | 851 07 RP 20.. _S . 50.. | 42.25 | 49.92 | 31.77 | 22.45 | 3.44 | 33.65 | 49.14 | 23.92 | 39.83 | 46.04 |
| 22 | 851 07 P 22.. _S . 50.. | 851 07 RP 22.. _S . 50.. | 42.25 | 49.92 | 34.95 | 22.45 | 3.44 | 37.10 | 52.24 | 25.52 | 43.03 | 49.24 |
| 24 | 851 07 P 24.. _S . 50.. | 851 07 RP 24.. _S . 50.. | 43.26 | 51.30 | 38.12 | 23.30 | 3.44 | 40.00 | 55.54 | 32.00 | 46.18 | 52.74 |

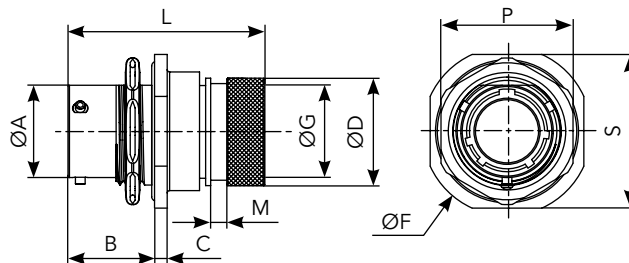
Note: all dimensions are in mm

Environmental connectors

Jam nut receptacle with straight backshell for heatshrink sleeving

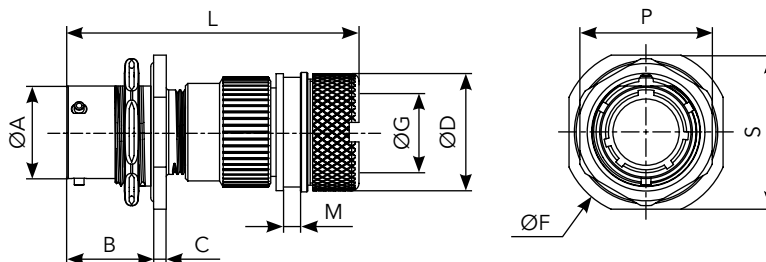
Cross reference

| | |
|-------|------------|
| 07 T | |
| 07 RT | VG 95328 S |



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | | M max | P max | S max |
|------------|-------------------------------------|--------------------------------------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | Solder | Crimp | | | |
| 8 | 851 07 T 8.. P _S . 50.. | 851 07 RT 8.. P _S . 50 .. | 42.60 | 41.50 | 12.03 | 17.90 | 2.64 | 15.35 | 26.94 | 7.20 | 6.70 | 3.70 | 19.29 | 23.94 |
| 10 | 851 07 T 10.. P _S . 50.. | 851 07 RT 10.. P _S . 50.. | 42.60 | 41.50 | 15.01 | 17.90 | 2.64 | 18.15 | 30.14 | 10.20 | 9.40 | 3.70 | 22.38 | 26.94 |
| 12 | 851 07 T 12.. P _S . 50.. | 851 07 RT 12.. P _S . 50.. | 42.60 | 41.50 | 19.07 | 17.90 | 2.64 | 23.45 | 34.94 | 13.20 | 11.95 | 3.70 | 27.13 | 31.74 |
| 14 | 851 07 T 14.. P _S . 50.. | 851 07 RT 14.. P _S . 50.. | 42.60 | 41.50 | 22.25 | 17.90 | 2.64 | 24.25 | 38.04 | 16.10 | 15.15 | 3.70 | 30.33 | 34.94 |
| 16 | 851 07 T 16.. P _S . 50.. | 851 07 RT 16.. P _S . 50.. | 44.40 | 43.80 | 25.42 | 17.90 | 2.64 | 29.55 | 41.24 | 19.25 | 18.05 | 3.70 | 33.48 | 38.24 |
| 18 | 851 07 T 18.. P _S . 50.. | 851 07 RT 18.. P _S . 50.. | 44.40 | 43.80 | 28.60 | 17.90 | 2.64 | 31.75 | 44.44 | 21.30 | 19.95 | 3.70 | 36.68 | 41.24 |
| 20 | 851 07 T 20.. P _S . 50.. | 851 07 RT 20.. P _S . 50.. | 50.90 | 49.80 | 31.77 | 22.45 | 3.44 | 35.85 | 49.14 | 24.40 | 23.05 | 3.70 | 39.83 | 46.04 |
| 22 | 851 07 T 22.. P _S . 50.. | 851 07 RT 22.. P _S . 50.. | 50.90 | 49.80 | 34.95 | 22.45 | 3.44 | 38.20 | 52.24 | 27.50 | 25.55 | 3.70 | 43.03 | 49.24 |
| 24 | 851 07 T 24.. P _S . 50.. | 851 07 RT 24.. P _S . 50.. | 49.90 | 48.50 | 38.12 | 23.30 | 3.44 | 41.30 | 55.54 | 30.60 | 28.65 | 3.70 | 46.18 | 52.74 |

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



| Shell size | Part numbers | | L max | | A | B max | C max | D max | F max | G max | M max | P max | S max |
|------------|---|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | | | | | | |
| 8 | 851 07 T 8.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 8.. P _S . 50 ³⁸ ₄₂ | 60.00 | | 12.03 | 17.90 | 2.64 | 18.25 | 26.94 | 7.45 | 3.70 | 19.29 | 23.94 |
| 10 | 851 07 T 10.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 10.. P _S . 50 ³⁸ ₄₂ | 60.00 | | 15.01 | 17.90 | 2.64 | 20.25 | 30.14 | 9.00 | 3.70 | 22.38 | 26.94 |
| 12 | 851 07 T 12.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 12.. P _S . 50 ³⁸ ₄₂ | 60.00 | | 19.07 | 17.90 | 2.64 | 24.75 | 34.94 | 13.30 | 3.70 | 27.13 | 31.74 |
| 14 | 851 07 T 14.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 14.. P _S . 50 ³⁸ ₄₂ | 60.00 | | 22.25 | 17.90 | 2.64 | 27.75 | 38.04 | 16.50 | 3.70 | 30.33 | 34.94 |
| 16 | 851 07 T 16.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 16.. P _S . 50 ³⁸ ₄₂ | 60.00 | | 25.42 | 17.90 | 2.64 | 30.05 | 41.24 | 18.50 | 3.70 | 33.48 | 38.24 |
| 18 | 851 07 T 18.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 18.. P _S . 50 ³⁸ ₄₂ | 60.40 | | 28.60 | 17.90 | 2.64 | 34.15 | 44.44 | 21.90 | 3.70 | 36.68 | 41.34 |
| 20 | 851 07 T 20.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 20.. P _S . 50 ³⁸ ₄₂ | 63.40 | | 31.77 | 22.45 | 3.44 | 37.25 | 49.14 | 25.10 | 3.70 | 39.83 | 46.04 |
| 22 | 851 07 T 22.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 22.. P _S . 50 ³⁸ ₄₂ | 63.40 | | 34.95 | 22.45 | 3.44 | 40.45 | 52.24 | 28.20 | 3.70 | 43.03 | 49.24 |
| 24 | 851 07 T 24.. P _S . 50 ³⁸ ₄₂ | 851 07 RT 24.. P _S . 50 ³⁸ ₄₂ | 63.40 | | 38.12 | 23.30 | 3.44 | 43.65 | 55.54 | 31.40 | 3.70 | 46.18 | 52.74 |

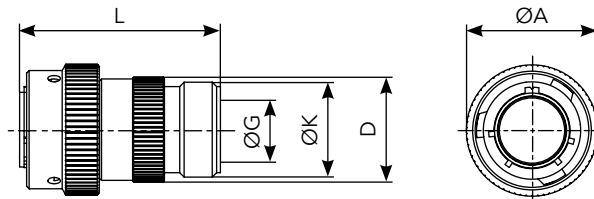
Note: all dimensions are in mm

Environmental connectors

Plug with straight adaptor

Cross reference

| | |
|--------------|----------------|
| 06 A | HE 301 B 06 A |
| 06 RA | HE 301 B 06 RA |

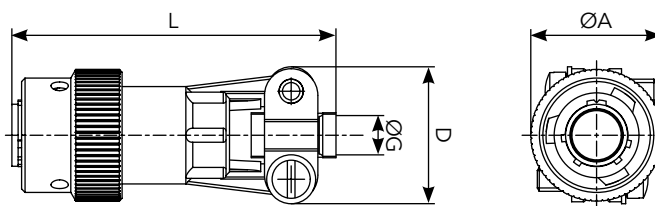


| Shell size | Part numbers | | L max | | A max | D max | G max | F threading UNEF 2A |
|------------|--------------------------------------|---------------------------------------|--------|-------|-------|-------|-------|---------------------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | 851 06 A 8 .. P _S . 50.. | 851 06 RA 8 .. P _S . 50 .. | 41.00 | 41.00 | 19.05 | 14.50 | 9.10 | 1/2 28 |
| 10 | 851 06 A 10 .. P _S . 50.. | 851 06 RA 10 .. P _S . 50.. | 41.00 | 41.00 | 21.80 | 18.70 | 12.08 | 5/8 24 |
| 12 | 851 06 A 12 .. P _S . 50.. | 851 06 RA 12 .. P _S . 50.. | 41.00 | 41.00 | 26.15 | 21.70 | 15.25 | 3/4 20 |
| 14 | 851 06 A 14 .. P _S . 50.. | 851 06 RA 14 .. P _S . 50.. | 41.00 | 41.00 | 29.35 | 25.10 | 18.15 | 7/8 20 |
| 16 | 851 06 A 16 .. P _S . 50.. | 851 06 RA 16 .. P _S . 50.. | 41.00 | 41.00 | 32.50 | 28.13 | 21.32 | 1-20 |
| 18 | 851 06 A 18 .. P _S . 50.. | 851 06 RA 18 .. P _S . 50.. | 41.00 | 41.00 | 35.30 | 31.38 | 24.32 | 1-3/16 18 |
| 20 | 851 06 A 20 .. P _S . 50.. | 851 06 RA 20 .. P _S . 50.. | 44.00 | 43.30 | 38.85 | 34.30 | 26.73 | 1-3/16 18 |
| 22 | 851 06 A 22 .. P _S . 50.. | 851 06 RA 22 .. P _S . 50.. | 44.00 | 43.30 | 42.05 | 37.60 | 30.67 | 1-7/16 18 |
| 24 | 851 06 A 24 .. P _S . 50.. | 851 06 RA 24 .. P _S . 50.. | 44.00 | 43.50 | 45.10 | 40.70 | 33.08 | 1-7/16 18 |

Plug with straight cable clamp

Cross reference

| | |
|--------------|----------------|
| 06 EC | HE 301 B 06 EC |
| | MS 3116 F |
| 06 AC | HE 301 B 06 AC |
| 06 RC | HE 301 B 06 RC |
| | MS 3126 F |
| | VG 95328 K |



| Shell size | Part numbers | | L max | | A max | D max | G |
|------------|--|---------------------------------------|--------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | |
| 8 | 851 06 ^{EC} 8 .. P _S . 50.. | 851 06 RC 8 .. P _S . 50 .. | 48.00 | 47.30 | 19.05 | 19.90 | 3.50 |
| 10 | 851 06 ^{EC} 10 .. P _S . 50.. | 851 06 RC 10 .. P _S . 50.. | 48.00 | 47.30 | 21.80 | 21.50 | 5.00 |
| 12 | 851 06 ^{EC} 12 .. P _S . 50.. | 851 06 RC 12 .. P _S . 50.. | 48.00 | 47.30 | 26.15 | 25.00 | 8.20 |
| 14 | 851 06 ^{EC} 14 .. P _S . 50.. | 851 06 RC 14 .. P _S . 50.. | 48.00 | 47.30 | 29.35 | 27.80 | 10.00 |
| 16 | 851 06 ^{EC} 16 .. P _S . 50.. | 851 06 RC 16 .. P _S . 50.. | 51.00 | 50.50 | 32.50 | 29.40 | 13.00 |
| 18 | 851 06 ^{EC} 18 .. P _S . 50.. | 851 06 RC 18 .. P _S . 50.. | 51.00 | 50.50 | 35.30 | 35.30 | 16.00 |
| 20 | 851 06 ^{EC} 20 .. P _S . 50.. | 851 06 RC 20 .. P _S . 50.. | 52.00 | 50.20 | 38.85 | 35.30 | 16.00 |
| 22 | 851 06 ^{EC} 22 .. P _S . 50.. | 851 06 RC 22 .. P _S . 50.. | 52.00 | 50.20 | 42.05 | 41.10 | 19.30 |
| 24 | 851 06 ^{EC} 24 .. P _S . 50.. | 851 06 RC 24 .. P _S . 50.. | 52.00 | 50.20 | 45.10 | 42.40 | 20.60 |

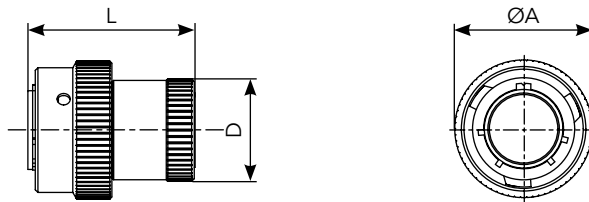
Note: all dimensions are in mm

Environmental connectors

Plug with backnut

Cross reference

| | |
|------|---------------|
| 06 E | HE 301 B 06 E |
| | MS 3116 E |
| 06 R | HE 301 B 06 R |
| | MS 3126 E |

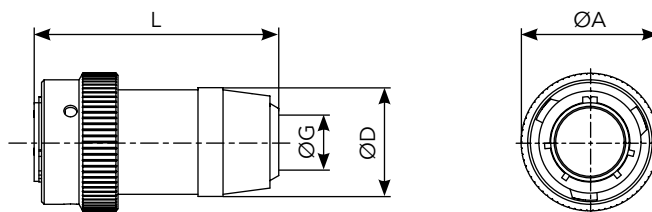


| Shell size | Part numbers | | L max | | A max | D max |
|------------|-------------------------------------|-------------------------------------|--------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | |
| 8 | 851 06 E 8 .. $\frac{P}{S}$. 50.. | 851 06 R 8 .. $\frac{P}{S}$. 50 .. | 32.54 | 32.00 | 19.05 | 13.50 |
| 10 | 851 06 E 10 .. $\frac{P}{S}$. 50.. | 851 06 R 10 .. $\frac{P}{S}$. 50.. | 32.54 | 32.00 | 21.80 | 16.70 |
| 12 | 851 06 E 12 .. $\frac{P}{S}$. 50.. | 851 06 R 12 .. $\frac{P}{S}$. 50.. | 32.54 | 32.00 | 26.15 | 19.90 |
| 14 | 851 06 E 14 .. $\frac{P}{S}$. 50.. | 851 06 R 14 .. $\frac{P}{S}$. 50.. | 32.54 | 32.00 | 29.35 | 23.40 |
| 16 | 851 06 E 16 .. $\frac{P}{S}$. 50.. | 851 06 R 16 .. $\frac{P}{S}$. 50.. | 32.54 | 32.00 | 32.50 | 26.60 |
| 18 | 851 06 E 18 .. $\frac{P}{S}$. 50.. | 851 06 R 18 .. $\frac{P}{S}$. 50.. | 32.54 | 32.00 | 35.30 | 29.60 |
| 20 | 851 06 E 20 .. $\frac{P}{S}$. 50.. | 851 06 R 20 .. $\frac{P}{S}$. 50.. | 33.30 | 32.10 | 38.85 | 32.70 |
| 22 | 851 06 E 22 .. $\frac{P}{S}$. 50.. | 851 06 R 22 .. $\frac{P}{S}$. 50.. | 33.30 | 32.10 | 42.05 | 36.00 |
| 24 | 851 06 E 24 .. $\frac{P}{S}$. 50.. | 851 06 R 24 .. $\frac{P}{S}$. 50.. | 33.30 | 32.10 | 45.10 | 39.10 |

Plug with straight sealing gland backshell

Cross reference

| | |
|------|---------------|
| 06 J | HE 301 B 06 J |
|------|---------------|



| Shell size | Part numbers | | L max | | A max | D max | G max | |
|------------|-------------------------------------|----------------|--------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | min | max |
| 8 | 851 06 J 8 .. $\frac{P}{S}$. 50.. | - | 47.60 | - | 19.05 | 14.40 | 5.02 | 5.84 |
| 10 | 851 06 J 10 .. $\frac{P}{S}$. 50.. | - | 47.60 | - | 21.80 | 17.60 | 5.94 | 6.76 |
| 12 | 851 06 J 12 .. $\frac{P}{S}$. 50.. | - | 49.20 | - | 26.15 | 21.10 | 9.34 | 10.16 |
| 14 | 851 06 J 14 .. $\frac{P}{S}$. 50.. | - | 54.00 | - | 29.35 | 24.40 | 11.32 | 12.14 |
| 16 | 851 06 J 16 .. $\frac{P}{S}$. 50.. | - | 59.60 | - | 32.50 | 27.60 | 14.73 | 15.55 |
| 18 | 851 06 J 18 .. $\frac{P}{S}$. 50.. | - | 65.60 | - | 35.30 | 30.80 | 16.00 | 16.80 |
| 20 | 851 06 J 20 .. $\frac{P}{S}$. 50.. | - | 78.00 | - | 38.85 | 34.10 | 16.89 | 17.71 |
| 22 | 851 06 J 22 .. $\frac{P}{S}$. 50.. | - | 79.50 | - | 42.05 | 37.30 | 17.78 | 18.60 |
| 24 | 851 06 J 24 .. $\frac{P}{S}$. 50.. | - | 90.00 | - | 45.10 | 40.50 | 20.34 | 21.16 |

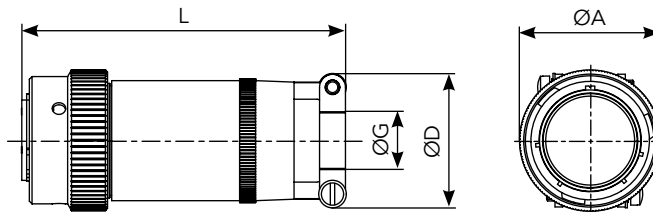
Note: all dimensions are in mm

Environmental connectors

Plug with straight sealing gland and cable clamp backshells

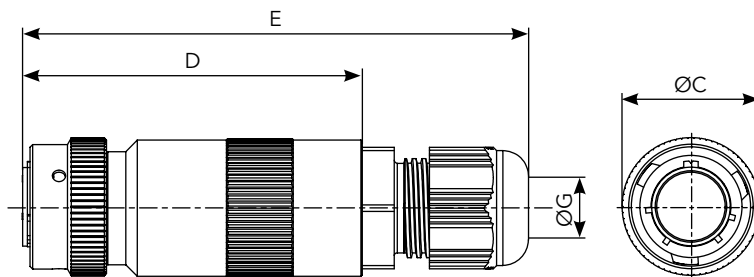
Cross reference

| | |
|-------|-----------|
| 06 JC | MS 3116 J |
|-------|-----------|



| Shell size | Part numbers | | L max | | A max | D max | G max | |
|------------|--|----------------|--------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | min | max |
| 8 | 851 06 JC 8 .. _S ^P . 50.. | - | 57.68 | - | 19.05 | 19.90 | 5.02 | 5.84 |
| 10 | 851 06 JC 10 .. _S ^P . 50.. | - | 57.68 | - | 21.80 | 21.50 | 5.94 | 6.76 |
| 12 | 851 06 JC 12 .. _S ^P . 50.. | - | 61.24 | - | 26.15 | 25.00 | 9.34 | 10.16 |
| 14 | 851 06 JC 14 .. _S ^P . 50.. | - | 66.01 | - | 29.35 | 27.80 | 11.32 | 12.14 |
| 16 | 851 06 JC 16 .. _S ^P . 50.. | - | 74.75 | - | 32.50 | 29.40 | 14.73 | 15.50 |
| 18 | 851 06 JC 18 .. _S ^P . 50.. | - | 80.57 | - | 35.30 | 35.30 | 16.00 | 16.82 |
| 20 | 851 06 JC 20 .. _S ^P . 50.. | - | 91.69 | - | 38.85 | 35.30 | 16.89 | 17.71 |
| 22 | 851 06 JC 22 .. _S ^P . 50.. | - | 95.66 | - | 42.05 | 41.10 | 17.78 | 18.60 |
| 24 | 851 06 JC 24 .. _S ^P . 50.. | - | 101.22 | - | 45.10 | 42.40 | 20.34 | 21.16 |

Plug with long metallic adaptor and plastic cable gland



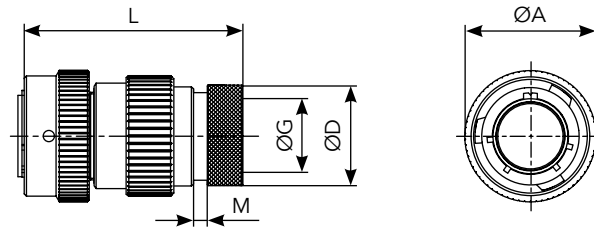
| Shell size | Part numbers solder contacts | D maxi | E maxi | ØC maxi | ØG | |
|------------|--|--------|--------|---------|------|-------|
| | | | | | mini | maxi |
| 8 | 851 06L 8 _S ^P * | 57.00 | 81.00 | 19.30 | 4.00 | 5.00 |
| 10 | 851 06L 10 _S ^P * | 57.00 | 84.00 | 22.00 | 4.00 | 6.00 |
| 12 | 851 06L 12 _S ^P * | 57.00 | 86.00 | 26.30 | 4.00 | 7.00 |
| 14 | 851 06L 14 _S ^P * | 57.00 | 87.00 | 29.50 | 4.00 | 9.00 |
| 16 | 851 06L 16 _S ^P * | 57.00 | 90.00 | 32.70 | 6.00 | 12.00 |

Black anodized* See page 12 "obligatory specification". Example: 85106L123P54

Note: all dimensions are in mm

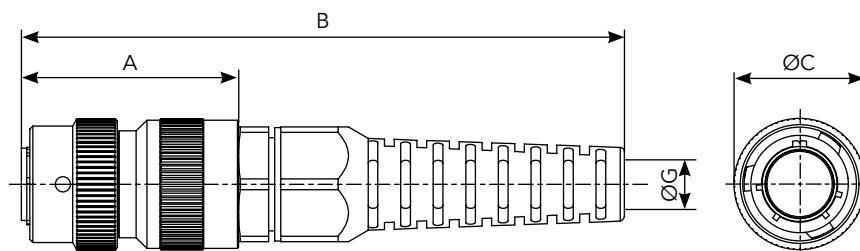
Environmental connectors

Plug with removable straight backshell for heatshrink sleeving



| Shell size | Part numbers | | L max | | A max | D max | G max | M max |
|------------|---------------------------|----------------------------|--------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | 851 06 M 8 .. P S . 50.. | 851 06 RM 8 .. P S . 50 .. | 50.00 | | 19.05 | 13.55 | 7.05 | 3.50 |
| 10 | 851 06 M 10 .. P S . 50.. | 851 06 RM 10 .. P S . 50.. | 50.00 | | 21.80 | 15.35 | 9.90 | 3.50 |
| 12 | 851 06 M 12 .. P S . 50.. | 851 06 RM 12 .. P S . 50.. | 50.00 | | 26.15 | 19.48 | 12.60 | 3.50 |
| 14 | 851 06 M 14 .. P S . 50.. | 851 06 RM 14 .. P S . 50.. | 50.00 | | 29.35 | 21.30 | 15.90 | 3.50 |
| 16 | 851 06 M 16 .. P S . 50.. | 851 06 RM 16 .. P S . 50.. | 50.00 | | 32.50 | 24.50 | 18.95 | 3.50 |
| 18 | 851 06 M 18 .. P S . 50.. | 851 06 RM 18 .. P S . 50.. | 50.00 | | 35.30 | 26.45 | 20.90 | 3.50 |
| 20 | 851 06 M 20 .. P S . 50.. | 851 06 RM 20 .. P S . 50.. | 52.00 | | 38.85 | 30.73 | 23.70 | 3.50 |
| 22 | 851 06 M 22 .. P S . 50.. | 851 06 RM 22 .. P S . 50.. | 52.00 | | 42.05 | 34.24 | 26.60 | 3.50 |
| 24 | 851 06 M 24 .. P S . 50.. | 851 06 RM 24 .. P S . 50.. | 52.00 | | 45.10 | 36.47 | 29.30 | 3.50 |

Plug with short metallic adaptor and plastic cable gland with spiral protector



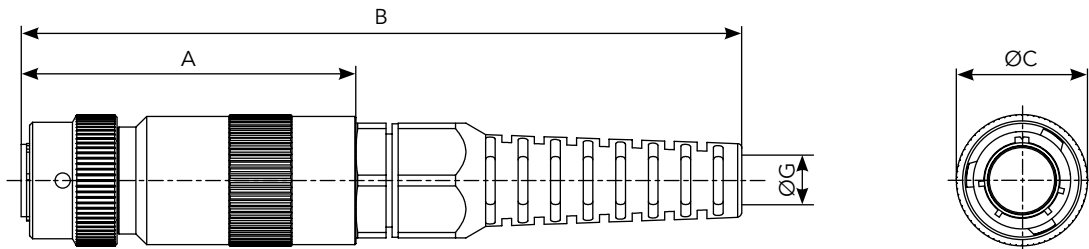
| Shell size | Part numbers solder contacts | A maxi | B maxi | ØC maxi | ØG | |
|------------|------------------------------|--------|--------|---------|------|------|
| | | | | | mini | maxi |
| 8 | 851 06NS 8 P S * | 37.00 | 91.00 | 19.30 | 4.00 | 6.50 |
| 10 | 851 06NS 10 P S * | 37.00 | 101.00 | 22.00 | 4.00 | 7.00 |
| 12 | 851 06NS 12 P S * | 37.00 | 114.00 | 26.30 | 4.00 | 7.00 |
| 14 | 851 06NS 14 P S * | 37.00 | 125.00 | 29.50 | 4.00 | 7.00 |
| 16 | 851 06NS 16 P S * | 42.00 | 144.00 | 32.70 | 6.00 | 11.0 |

Black anodized* See page 12 "obligatory specification". Example: 85106NS123P54

Note: all dimensions are in mm

Environmental connectors

Plug with long metallic adaptor and plastic cable gland with spiral protector



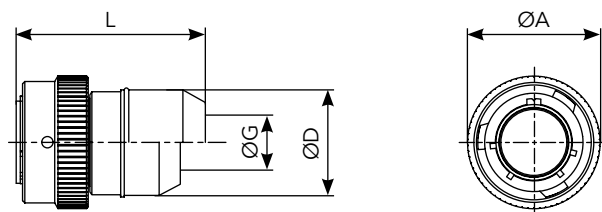
| Shell size | Part numbers solder contacts | D maxi | E maxi | ØC maxi | ØG | |
|------------|---|--------|--------|---------|------|-------|
| | | | | | mini | maxi |
| 8 | 851 06NL 8 ^P / _S * | 57.00 | 111.00 | 19.30 | 4.00 | 6.50 |
| 10 | 851 06NL 10 ^P / _S * | 57.00 | 121.00 | 22.00 | 4.00 | 7.00 |
| 12 | 851 06NL 12 ^P / _S * | 57.00 | 134.00 | 26.30 | 4.00 | 7.00 |
| 14 | 851 06NL 14 ^P / _S * | 57.00 | 145.00 | 29.50 | 4.00 | 7.00 |
| 16 | 851 06NL 16 ^P / _S * | 57.00 | 159.00 | 32.70 | 6.00 | 11.00 |

Black anodized* See page 12 "obligatory specification". Example: 85106NL123P54

Plug with straight backshell for potting

Cross reference

| | |
|-------|----------------|
| 06 P | HE 301 B 06 P |
| | MS 3116 P |
| 06 RP | HE 301 B 06 RP |
| | MS 3126 P |

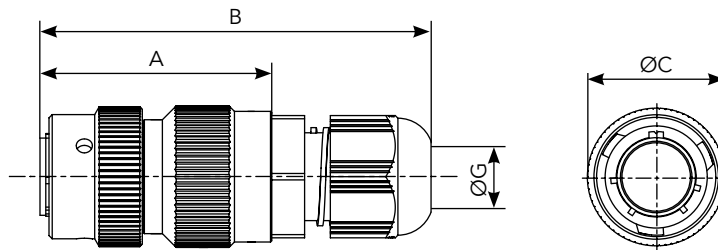


| Shell size | Part numbers | | L max | | A max | D max | G |
|------------|---|--|--------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | |
| 8 | 851 06 P 8 .. ^P / _S . 50.. | 851 06 RP 8 .. ^P / _S . 50 .. | 36.20 | 42.10 | 19.05 | 15.34 | 10.46 |
| 10 | 851 06 P 10 .. ^P / _S . 50.. | 851 06 RP 10 .. ^P / _S . 50.. | 36.20 | 42.10 | 21.80 | 17.70 | 13.55 |
| 12 | 851 06 P 12 .. ^P / _S . 50.. | 851 06 RP 12 .. ^P / _S . 50.. | 36.20 | 42.10 | 26.15 | 21.69 | 13.96 |
| 14 | 851 06 P 14 .. ^P / _S . 50.. | 851 06 RP 14 .. ^P / _S . 50.. | 36.20 | 42.10 | 29.35 | 23.90 | 17.42 |
| 16 | 851 06 P 16 .. ^P / _S . 50.. | 851 06 RP 16 .. ^P / _S . 50.. | 36.20 | 42.10 | 32.50 | 27.00 | 20.56 |
| 18 | 851 06 P 18 .. ^P / _S . 50.. | 851 06 RP 18 .. ^P / _S . 50.. | 37.70 | 45.40 | 35.30 | 30.50 | 23.66 |
| 20 | 851 06 P 20 .. ^P / _S . 50.. | 851 06 RP 20 .. ^P / _S . 50.. | 42.40 | 50.00 | 38.85 | 33.65 | 23.92 |
| 22 | 851 06 P 22 .. ^P / _S . 50.. | 851 06 RP 22 .. ^P / _S . 50.. | 42.40 | 50.00 | 42.05 | 37.10 | 25.52 |
| 24 | 851 06 P 24 .. ^P / _S . 50.. | 851 06 RP 24 .. ^P / _S . 50.. | 42.85 | 50.00 | 45.10 | 40.00 | 32.00 |

Note: all dimensions are in mm

Environmental connectors

Plug with short metallic adaptor and plastic cable gland



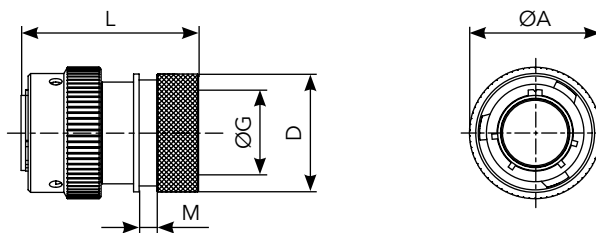
| Shell size | Part numbers solder contacts | A maxi | B maxi | ØC maxi | ØG | |
|------------|--|--------|--------|---------|------|-------|
| | | | | | mini | maxi |
| 8 | 851 06S 8 ^P / _S * | 37.00 | 61.00 | 19.30 | 4.00 | 5.00 |
| 10 | 851 06S 10 ^P / _S * | 37.00 | 64.00 | 22.00 | 4.00 | 6.00 |
| 12 | 851 06S 12 ^P / _S * | 37.00 | 66.00 | 26.30 | 4.00 | 7.00 |
| 14 | 851 06S 14 ^P / _S * | 37.00 | 67.00 | 29.50 | 4.00 | 9.00 |
| 16 | 851 06S 16 ^P / _S * | 42.00 | 75.00 | 32.70 | 6.00 | 12.00 |

Black anodized* See page 12 "obligatory specification". Example: 85106S123P54

Plug with straight backshell for heatshrink sleeving

Cross reference

| | |
|-------|------------|
| 06 T | |
| 06 RT | VG 95328 J |



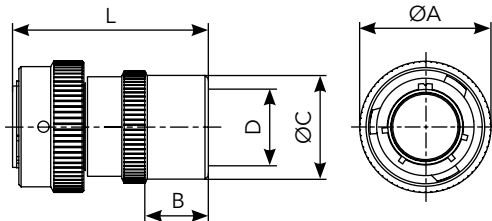
| Shell size | Part numbers | | L max | | A max | D max | G max | | M max |
|------------|--|---|--------|-------|-------|-------|--------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | Solder | Crimp | |
| 8 | 851 06 T 8.. ^P / _S . 50.. | 851 06 RT 8.. ^P / _S . 50 .. | 36.70 | 36.00 | 19.05 | 15.35 | 7.20 | 6.70 | 3.70 |
| 10 | 851 06 T 10.. ^P / _S . 50.. | 851 06 RT 10.. ^P / _S . 50.. | 36.70 | 36.00 | 21.80 | 18.15 | 10.20 | 9.40 | 3.70 |
| 12 | 851 06 T 12.. ^P / _S . 50.. | 851 06 RT 12.. ^P / _S . 50.. | 36.70 | 36.00 | 26.15 | 23.45 | 13.20 | 11.95 | 3.70 |
| 14 | 851 06 T 14.. ^P / _S . 50.. | 851 06 RT 14.. ^P / _S . 50.. | 36.70 | 36.00 | 29.35 | 24.25 | 16.10 | 15.15 | 3.70 |
| 16 | 851 06 T 16.. ^P / _S . 50.. | 851 06 RT 16.. ^P / _S . 50.. | 39.00 | 38.30 | 32.50 | 29.55 | 19.25 | 18.05 | 3.70 |
| 18 | 851 06 T 18.. ^P / _S . 50.. | 851 06 RT 18.. ^P / _S . 50.. | 39.00 | 38.30 | 35.30 | 31.75 | 21.30 | 19.95 | 3.70 |
| 20 | 851 06 T 20.. ^P / _S . 50.. | 851 06 RT 20.. ^P / _S . 50.. | 44.00 | 42.90 | 38.85 | 35.85 | 24.40 | 23.05 | 3.70 |
| 22 | 851 06 T 22.. ^P / _S . 50.. | 851 06 RT 22.. ^P / _S . 50.. | 44.00 | 42.90 | 42.05 | 38.20 | 27.50 | 25.55 | 3.70 |
| 24 | 851 06 T 24.. ^P / _S . 50.. | 851 06 RT 24.. ^P / _S . 50.. | 42.70 | 41.60 | 45.10 | 41.30 | 30.60 | 28.65 | 3.70 |

Note: all dimensions are in mm

Environmental connectors

Plug with straight adaptor for electrical pitch access

The Z type special adaptor which equips crimp plug 851 06 RZ fits following accessories.
 - Packing gland collet backshell
 - Backshell for polyflex sleeving
 - Backshell for C.N.O.M.O. tube

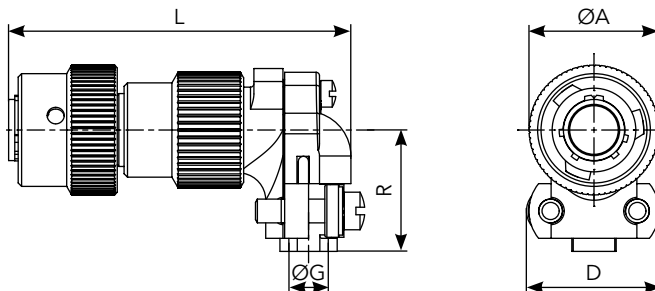


| Shell size | Part numbers | | L max | | A max | B max | C max | D threading PE |
|------------|--------------------------------------|---------------------------------------|--------|-------|-------|-------|-------|----------------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | - | - | - | - | - | - | - | - |
| 10 | - | - | - | - | - | - | - | - |
| 12 | 851 06 Z 12 .. P _S . 50.. | 851 06 RZ 12 .. P _S . 50.. | 43.00 | 26.15 | 9.10 | 24.80 | 11 | |
| 14 | 851 06 Z14 .. P _S . 50.. | 851 06 RZ 14 .. P _S . 50.. | 45.00 | 29.35 | 11.00 | 28.80 | 16 | |
| 16 | 851 06 Z 16 .. P _S . 50.. | 851 06 RZ 16 .. P _S . 50.. | 45.00 | 32.50 | 11.00 | 30.80 | 16 | |
| 18 | 851 06 Z 18 .. P _S . 50.. | 851 06 RZ 18 .. P _S . 50.. | 46.00 | 35.30 | 12.00 | 40.80 | 21 | |
| 20 | 851 06 Z 20 .. P _S . 50.. | 851 06 RZ 20 .. P _S . 50.. | 46.50 | 38.85 | 12.00 | 40.80 | 21 | |
| 22 | 851 06 Z 22 .. P _S . 50.. | 851 06 RZ 22 .. P _S . 50.. | 46.50 | 42.05 | 12.00 | 40.80 | 21 | |
| 24 | 851 06 Z24 .. P _S . 50.. | 851 06 RZ 24 .. P _S . 50.. | 65.50 | 45.10 | 31.40 | 45.00 | 29 | |

Plug with elbow cable clamp backshell

Cross reference

| | |
|-------|----------------|
| 08 EC | HE 301 B 08 EC |
| 08 RC | HE 301 B 08 RC |



| Shell size | Part numbers | | L max | | A max | D max | G | R max |
|------------|---------------------------------------|---------------------------------------|--------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | 851 08 EC 8 .. P _S . 50.. | 851 08 RC 8 .. P _S . 50.. | 50.10 | 19.05 | 19.70 | 3.50 | 16.00 | |
| 10 | 851 08 EC 10 .. P _S . 50.. | 851 08 RC 10 .. P _S . 50.. | 52.60 | 21.80 | 21.20 | 5.00 | 18.00 | |
| 12 | 851 08 EC 12 .. P _S . 50.. | 851 08 RC 12 .. P _S . 50.. | 54.90 | 26.15 | 24.20 | 8.20 | 19.50 | |
| 14 | 851 08 EC 14 .. P _S . 50.. | 851 08 RC 14 .. P _S . 50.. | 58.50 | 29.35 | 27.50 | 10.00 | 22.00 | |
| 16 | 851 08 EC 16 .. P _S . 50.. | 851 08 RC 16 .. P _S . 50.. | 60.80 | 32.50 | 29.10 | 13.00 | 23.50 | |
| 18 | 851 08 EC 18 .. P _S . 50.. | 851 08 RC 18 .. P _S . 50.. | 65.00 | 35.30 | 35.70 | 16.00 | 25.00 | |
| 20 | 851 08 EC 20 .. P _S . 50.. | 851 08 RC 20 .. P _S . 50.. | 69.10 | 38.85 | 35.70 | 16.00 | 26.50 | |
| 22 | 851 08 EC 22 .. P _S . 50.. | 851 08 RC 22 .. P _S . 50.. | 71.00 | 42.05 | 39.70 | 19.30 | 28.00 | |
| 24 | 851 08 EC 24 .. P _S . 50.. | 851 08 EC 24 .. P _S . 50.. | 75.50 | 45.10 | 43.50 | 20.60 | 31.00 | |

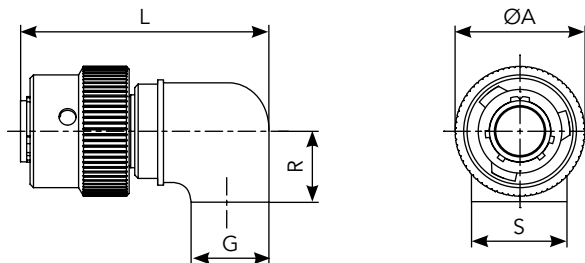
Note: all dimensions are in mm

Environmental connectors

Plug with elbow backshell for potting

Cross reference

| | |
|--------------|----------------|
| 08 P | HE 301 B 08 P |
| 08 RP | HE 301 B 08 RP |

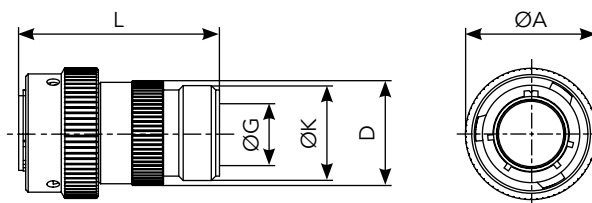


| Shell size | Part numbers | | L max | | A max | G max | R max | S max |
|------------|--------------------------------------|---------------------------------------|--------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | 851 08 P 8 .. P _S . 50.. | 851 08 RP 8 .. P _S . 50.. | 40.70 | | 19.05 | 8.10 | 11.70 | 11.30 |
| 10 | 851 08 P 10 .. P _S . 50.. | 851 08 RP 10 .. P _S . 50.. | 44.90 | | 21.80 | 11.30 | 14.35 | 14.50 |
| 12 | 851 08 P 12 .. P _S . 50.. | 851 08 RP 12 .. P _S . 50.. | 46.90 | | 26.15 | 13.30 | 15.90 | 17.70 |
| 14 | 851 08 P 14 .. P _S . 50.. | 851 08 RP 14 .. P _S . 50.. | 49.20 | | 29.35 | 16.10 | 16.30 | 20.10 |
| 16 | 851 08 P 16 .. P _S . 50.. | 851 08 RP 16 .. P _S . 50.. | 50.60 | | 32.50 | 16.90 | 19.30 | 22.80 |
| 18 | 851 08 P 18 .. P _S . 50.. | 851 08 RP 18 .. P _S . 50.. | 51.80 | | 35.30 | 18.10 | 20.60 | 25.60 |
| 20 | 851 08 P 20 .. P _S . 50.. | 851 08 RP 20 .. P _S . 50.. | 53.70 | | 38.85 | 19.70 | 21.90 | 28.80 |
| 22 | 851 08 P 22 .. P _S . 50.. | 851 08 RP 22 .. P _S . 50.. | 54.80 | | 42.05 | 20.80 | 23.50 | 31.60 |
| 24 | 851 08 P 24 .. P _S . 50.. | 851 08 RP 24 .. P _S . 50.. | 58.20 | | 45.10 | 24.20 | 30.15 | 35.20 |

Shielded plug with straight adaptor

Cross reference

| | |
|--------------|------------|
| 36 A | |
| 36 RA | VG 95328 N |



| Shell size | Part numbers | | L max | | A max | D max | G max | F threading UNEF 2A |
|------------|--------------------------------------|---------------------------------------|--------|-------|-------|-------|-------|---------------------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | 851 36 A 8 .. P _S . 50.. | 851 36 RA 8 .. P _S . 50.. | 41.00 | | 19.05 | 14.50 | 9.10 | 1/2 28 |
| 10 | 851 36 A 10 .. P _S . 50.. | 851 36 RA 10 .. P _S . 50.. | 41.00 | | 21.80 | 18.70 | 12.08 | 5/8 24 |
| 12 | 851 36 A 12 .. P _S . 50.. | 851 36 RA 12 .. P _S . 50.. | 41.00 | | 26.15 | 21.70 | 15.25 | 3/4 20 |
| 14 | 851 36 A 14 .. P _S . 50.. | 851 36 RA 14 .. P _S . 50.. | 41.00 | | 29.35 | 25.10 | 18.15 | 7/8 20 |
| 16 | 851 36 A 16 .. P _S . 50.. | 851 36 RA 16 .. P _S . 50.. | 41.00 | | 32.50 | 28.13 | 21.32 | 1-20 |
| 18 | 851 36 A 18 .. P _S . 50.. | 851 36 RA 18 .. P _S . 50.. | 41.00 | | 35.30 | 31.38 | 24.32 | 1-3/16 18 |
| 20 | 851 36 A 20 .. P _S . 50.. | 851 36 RA 20 .. P _S . 50.. | 43.30 | | 38.85 | 34.30 | 26.73 | 1-3/16 18 |
| 22 | 851 36 A 22 .. P _S . 50.. | 851 36 RA 22 .. P _S . 50.. | 43.30 | | 42.05 | 37.60 | 30.67 | 1-7/16 18 |
| 24 | 851 36 A 24 .. P _S . 50.. | 851 36 RA 24 .. P _S . 50.. | 43.50 | | 45.10 | 40.70 | 33.08 | 1-7/16 18 |

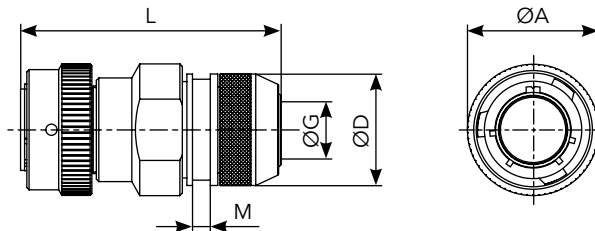
Note: all dimensions are in mm

Environmental connectors

Shielded plug with removable straight backshell for screen termination and heatshrink sleeving

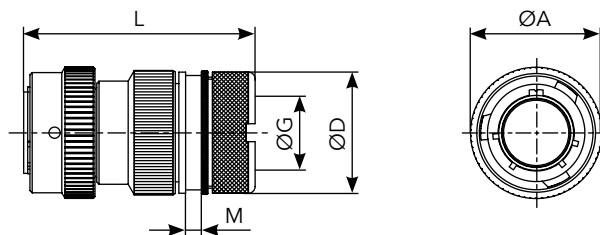
Cross reference

| | |
|-------|------------|
| 36 G | |
| 36 RG | VG 95328 M |



| Shell size | Part numbers | | L max | | A max | D max | G max | M max |
|------------|--------------------------------------|---------------------------------------|--------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | 851 36 G 8 .. P _S . 50.. | 851 36 RG 8 .. P _S . 50.. | 54.00 | | 19.05 | 16.30 | 7.45 | 3.60 |
| 10 | 851 36 G10 .. P _S . 50.. | 851 36 RG 10 .. P _S . 50.. | 54.00 | | 21.80 | 18.30 | 10.30 | 3.60 |
| 12 | 851 36 G 12 .. P _S . 50.. | 851 36 RG 12 .. P _S . 50.. | 54.00 | | 26.15 | 22.30 | 13.20 | 3.60 |
| 14 | 851 36 G 14 .. P _S . 50.. | 851 36 RG 14 .. P _S . 50.. | 54.00 | | 29.35 | 25.30 | 16.50 | 3.60 |
| 16 | 851 36 G 16 .. P _S . 50.. | 851 36 RG 16 .. P _S . 50.. | 54.00 | | 32.50 | 28.30 | 19.35 | 3.60 |
| 18 | 851 36 G 18 .. P _S . 50.. | 851 36 RG 18 .. P _S . 50.. | 54.00 | | 35.30 | 32.30 | 21.60 | 3.60 |
| 20 | 851 36 G 20 .. P _S . 50.. | 851 36 RG 20 .. P _S . 50.. | 58.00 | | 38.85 | 34.30 | 24.80 | 3.60 |
| 22 | 851 36 G 22 .. P _S . 50.. | 851 36 RG 22 .. P _S . 50.. | 58.00 | | 42.05 | 38.30 | 27.90 | 3.60 |
| 24 | 851 36 G 24 .. P _S . 50.. | 851 36 RG 24 .. P _S . 50.. | 58.00 | | 45.10 | 41.30 | 31.00 | 3.60 |

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



| Shell size | Part numbers | | L max | | A max | D max | G max | M max |
|------------|--|---------------------------------------|--------|-------|-------|-------|-------|-------|
| | solder contacts | crimp contacts | solder | crimp | | | | |
| 8 | 851 36 T 8 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 8 .. P _S . 50.. | 51.60 | | 19.05 | 18.25 | 7.45 | 3.70 |
| 10 | 851 36 T 10 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 10 .. P _S . 50.. | 51.60 | | 21.80 | 20.25 | 9.00 | 3.70 |
| 12 | 851 36 T 12 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 12 .. P _S . 50.. | 51.60 | | 26.15 | 24.75 | 13.30 | 3.70 |
| 14 | 851 36 T 14 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 14 .. P _S . 50.. | 51.60 | | 29.35 | 27.75 | 16.50 | 3.70 |
| 16 | 851 36 T 16 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 16 .. P _S . 50.. | 51.60 | | 32.50 | 30.05 | 18.50 | 3.70 |
| 18 | 851 36 T 18 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 18 .. P _S . 50.. | 52.00 | | 35.30 | 34.15 | 21.90 | 3.70 |
| 20 | 851 36 T 20 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 20 .. P _S . 50.. | 53.90 | | 38.85 | 37.25 | 25.10 | 3.70 |
| 22 | 851 36 T 22 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 22 .. P _S . 50.. | 53.90 | | 42.05 | 40.45 | 28.20 | 3.70 |
| 24 | 851 36 T 24 .. P _S . 50.. ³⁸ / ₄₂ | 851 36 RT 24 .. P _S . 50.. | 53.90 | | 45.10 | 43.65 | 31.40 | 3.70 |

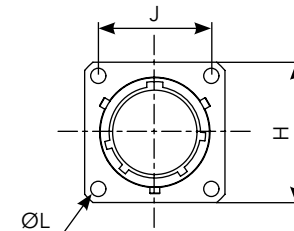
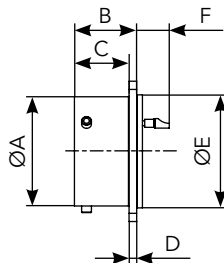
Note: all dimensions are in mm

Hermetic connectors

Square flange receptacle

Cross reference

| | |
|------|---------------|
| 02 H | HE 301 B 02 H |
|------|---------------|

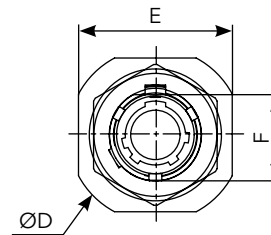
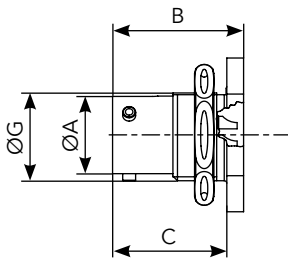


| Shell size | Part numbers | A max | B | C | D | E | F max | H max | J | L |
|------------|--------------------------------------|-------|-------|-------|------|-------|-------|-------|-------|------|
| 8 | 851 02 H 8 .. _S .. 50.. | 12.03 | 13.84 | 11.24 | 1.55 | 14.27 | 7.5 | 21.03 | 15.09 | 3.15 |
| 10 | 851 02 H 10 .. _S .. 50.. | 15.01 | 13.84 | 11.24 | 1.55 | 17.07 | 7.5 | 24.23 | 18.26 | 3.15 |
| 12 | 851 02 H 12 .. _S .. 50.. | 19.07 | 13.84 | 11.24 | 1.55 | 19.84 | 7.5 | 26.59 | 20.62 | 3.15 |
| 14 | 851 02 H 14 .. _S .. 50.. | 22.25 | 13.84 | 11.24 | 1.55 | 23.01 | 7.5 | 28.98 | 23.00 | 3.15 |
| 16 | 851 02 H 16 .. _S .. 50.. | 25.42 | 13.84 | 11.24 | 1.55 | 26.19 | 7.5 | 31.34 | 24.61 | 3.15 |
| 18 | 851 02 H 18 .. _S .. 50.. | 28.60 | 13.84 | 11.24 | 1.55 | 29.36 | 7.5 | 33.73 | 26.97 | 3.15 |
| 20 | 851 02 H 20 .. _S .. 50.. | 31.77 | 15.42 | 12.00 | 2.36 | 31.75 | 7.5 | 36.91 | 29.36 | 3.15 |
| 22 | 8851 02 H 22 .. _S .. 50.. | 34.95 | 16.23 | 12.00 | 2.36 | 34.92 | 7.5 | 40.10 | 31.75 | 3.15 |
| 24 | 851 02 H 24 .. _S .. 50.. | 38.12 | 17.04 | 12.81 | 2.36 | 38.10 | 6.7 | 43.27 | 34.92 | 3.82 |

Jam nut receptacle

Cross reference

| | |
|------|---------------|
| 07 H | HE 301 B 07 H |
| | MS 3114 H |
| | VG 95328 F |



| Shell size | Part numbers | A max | B max | C | D max | E max | F | G max |
|------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| 8 | 851 07 H 8 .. _S .. 50.. | 12.03 | 20.60 | 17.93 | 27.37 | 24.07 | 13.33 | 14.26 |
| 10 | 851 07 H 10 .. _S .. 50.. | 15.01 | 20.60 | 17.93 | 30.57 | 27.22 | 16.51 | 17.43 |
| 12 | 851 07 H 12 .. _S .. 50.. | 19.07 | 20.60 | 17.93 | 35.32 | 32.00 | 20.63 | 22.19 |
| 14 | 851 07 H 14 .. _S .. 50.. | 22.25 | 20.60 | 17.93 | 38.50 | 35.17 | 23.78 | 25.36 |
| 16 | 851 07 H 16 .. _S .. 50.. | 25.42 | 20.60 | 17.93 | 41.67 | 38.35 | 26.93 | 28.54 |
| 18 | 851 07 H 18 .. _S .. 50.. | 28.60 | 20.60 | 17.93 | 44.85 | 41.52 | 30.10 | 31.71 |
| 20 | 851 07 H 20 .. _S .. 50.. | 31.77 | 26.15 | 22.70 | 49.62 | 46.27 | 33.28 | 34.89 |
| 22 | 8851 07 H 22 .. _S .. 50.. | 34.95 | 26.15 | 22.70 | 52.77 | 49.47 | 36.45 | 38.06 |
| 24 | 851 07 H 24 .. _S .. 50.. | 38.12 | 26.98 | 23.54 | 55.97 | 52.62 | 39.63 | 41.24 |

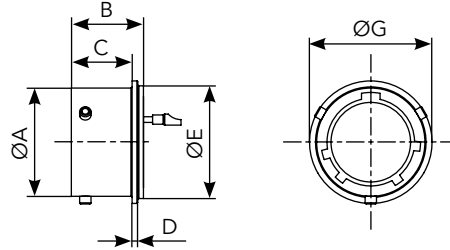
Note: all dimensions are in mm

Hermetic connectors

Solder fixing receptacle

Cross reference

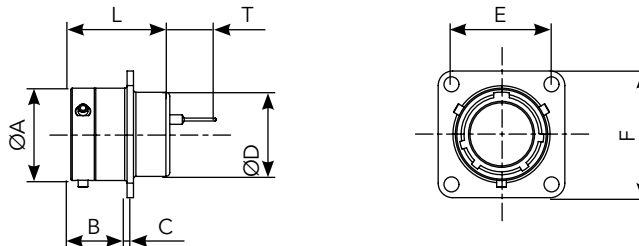
| | |
|-----------|-------------|
| IH | HE 301 B 1H |
| | MS 3113 H |
| | VG 95328 G |



| Shell size | Part numbers | A max | B | C | D | E | F max | G max |
|------------|--|-------|-------|-------|------|-------|-------|-------|
| 8 | 851 IH 8 .. _S ^P . 50.. | 12.03 | 13.84 | 10.70 | 0.80 | 14.27 | 8.60 | 16.40 |
| 10 | 851 IH 10 .. _S ^P . 50.. | 15.01 | 13.84 | 10.70 | 0.80 | 17.07 | 8.60 | 19.40 |
| 12 | 851 IH 12 .. _S ^P . 50.. | 19.07 | 13.84 | 10.70 | 0.80 | 19.84 | 8.60 | 21.80 |
| 14 | 851 IH 14 .. _S ^P . 50.. | 22.25 | 13.84 | 10.70 | 0.80 | 23.01 | 8.60 | 25.00 |
| 16 | 851 IH 16 .. _S ^P . 50.. | 25.42 | 13.84 | 10.70 | 0.80 | 26.19 | 8.60 | 28.10 |
| 18 | 851 IH 18 .. _S ^P . 50.. | 28.60 | 13.84 | 10.70 | 0.80 | 29.36 | 8.60 | 31.30 |
| 20 | 851 IH 20 .. _S ^P . 50.. | 31.77 | 15.42 | 12.70 | 0.80 | 31.75 | 8.60 | 33.70 |
| 22 | 8851 IH 22 .. _S ^P . 50.. | 34.95 | 16.23 | 12.70 | 0.80 | 34.92 | 8.60 | 36.90 |
| 24 | 851 IH 24 .. _S ^P . 50.. | 38.12 | 17.04 | 13.10 | 0.80 | 38.10 | 7.80 | 40.10 |

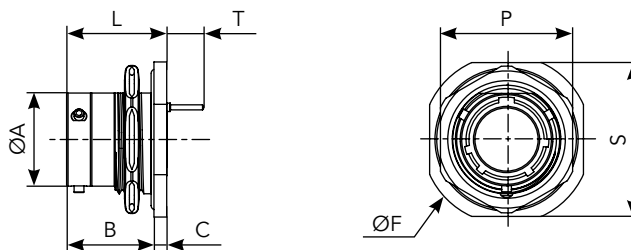
PC Tail connectors

Square flange receptacle



| Shell size | Part numbers | A | B max | C max | Ø D max | E | F max | J | L max | T +1.25 0 |
|------------|--|-------|-------|-------|---------|-------|-------|------|-------|-----------|
| 8 | 851 02 E 8.. _S ^P .50.. _S ¹⁶ / ₄₀ | 12.03 | 11.70 | 1.32 | 10.84 | 15.09 | 20.99 | 3.13 | 20.50 | 9.46 |
| 10 | 851 02 E 10.. _S ^P .50.. _S ¹⁶ / ₄₀ | 15.01 | 11.70 | 1.32 | 13.99 | 18.26 | 24.19 | 3.13 | 20.50 | 9.46 |
| 12 | 851 02 E 12.. _S ^P .50.. _S ¹⁶ / ₄₀ | 19.07 | 11.70 | 1.32 | 17.37 | 20.62 | 26.54 | 3.13 | 20.50 | 9.46 |
| 14 | 851 02 E 14.. _S ^P .50.. _S ¹⁶ / ₄₀ | 22.25 | 11.70 | 1.32 | 20.57 | 23.00 | 28.89 | 3.13 | 20.50 | 9.46 |
| 16 | 851 02 E 16.. _S ^P .50.. _S ¹⁶ / ₄₀ | 25.42 | 11.70 | 1.32 | 23.62 | 24.61 | 31.29 | 3.13 | 20.50 | 9.46 |
| 18 | 851 02 E 18.. _S ^P .50.. _S ¹⁶ / ₄₀ | 28.60 | 11.70 | 1.32 | 26.69 | 26.97 | 33.69 | 3.13 | 20.50 | 9.46 |
| 20 | 851 02 E 20.. _S ^P .50.. _S ¹⁶ / ₄₀ | 31.77 | 14.35 | 2.15 | 29.89 | 29.36 | 36.89 | 3.13 | 23.80 | 7.76 |
| 22 | 851 02 E 22.. _S ^P .50.. _S ¹⁶ / ₄₀ | 34.95 | 14.35 | 2.15 | 33.04 | 31.75 | 39.99 | 3.13 | 23.80 | 7.76 |
| 24 | 851 02 E 24.. _S ^P .50.. _S ¹⁶ / ₄₀ | 38.12 | 15.20 | 2.15 | 36.24 | 34.92 | 43.15 | 3.81 | 23.80 | 7.76 |

Jam nut receptacle



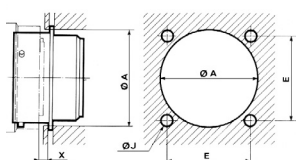
| Shell size | Part numbers | A | B max | C max | F max | L max | P max | S max | T +1.25 0 |
|------------|--|-------|-------|-------|-------|-------|-------|-------|-----------|
| 8 | 851 07 A 8.. _S ^P .50.. _S ¹⁶ / ₄₀ | 12.03 | 17.90 | 2.64 | 26.94 | 20.64 | 19.29 | 23.94 | 9.46 |
| 10 | 851 07 A 10.. _S ^P .50.. _S ¹⁶ / ₄₀ | 15.01 | 17.90 | 2.64 | 30.14 | 20.64 | 22.38 | 26.95 | 9.46 |
| 12 | 851 07 A 12.. _S ^P .50.. _S ¹⁶ / ₄₀ | 19.07 | 17.90 | 2.64 | 34.94 | 20.64 | 27.13 | 31.74 | 9.46 |
| 14 | 851 07 A 14.. _S ^P .50.. _S ¹⁶ / ₄₀ | 22.25 | 17.90 | 2.64 | 38.04 | 20.64 | 30.33 | 34.94 | 9.46 |
| 16 | 851 07 A 16.. _S ^P .50.. _S ¹⁶ / ₄₀ | 25.42 | 17.90 | 2.64 | 41.26 | 20.64 | 33.48 | 38.24 | 9.46 |
| 18 | 851 07 A 18.. _S ^P .50.. _S ¹⁶ / ₄₀ | 28.60 | 17.90 | 2.64 | 44.44 | 20.64 | 36.68 | 41.34 | 9.46 |
| 20 | 851 07 A 20.. _S ^P .50.. _S ¹⁶ / ₄₀ | 31.77 | 22.45 | 3.44 | 49.14 | 25.99 | 39.83 | 46.04 | 8.49 |
| 22 | 851 07 A 22.. _S ^P .50.. _S ¹⁶ / ₄₀ | 34.95 | 22.45 | 3.44 | 52.24 | 25.99 | 43.03 | 49.24 | 8.49 |
| 24 | 851 07 A 24.. _S ^P .50.. _S ¹⁶ / ₄₀ | 38.12 | 23.30 | 3.44 | 55.54 | 26.84 | 46.18 | 52.74 | 7.79 |

Note: all dimensions are in mm

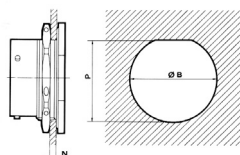
Panel cut out

Receptacle

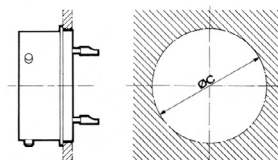
Square flange receptacle



Jam nut receptacle



Solder fixing receptacle



| Shell size | A ± 0.1 | B ± 0.1 | C ± 0.1 | E ± 0.15 | J ± 0.15 | N | | P ± 0.1 | X min |
|------------|-------------|-------------|-------------|--------------|--------------|------|------|-------------|-------|
| | | | | | | min | max | | |
| 8 | 15.55 | 14.60 | 14.70 | 15.10 | 3.15 | 1.57 | 3.17 | 13.75 | 2.90 |
| 10 | 18.80 | 17.75 | 17.50 | 18.26 | 3.15 | 1.57 | 3.17 | 16.95 | 2.90 |
| 12 | 22.15 | 22.50 | 20.20 | 20.62 | 3.15 | 1.57 | 3.17 | 21.50 | 2.90 |
| 14 | 25.30 | 25.70 | 23.40 | 23.00 | 3.15 | 1.57 | 3.17 | 24.20 | 2.90 |
| 16 | 28.45 | 28.85 | 26.60 | 24.60 | 3.15 | 1.57 | 3.17 | 27.35 | 2.90 |
| 18 | 31.65 | 32.05 | 29.80 | 26.97 | 3.15 | 1.57 | 3.17 | 30.55 | 2.90 |
| 20 | 34.80 | 35.20 | 32.10 | 29.36 | 3.15 | 1.57 | 6.35 | 33.70 | 5.50 |
| 22 | 38.00 | 38.40 | 35.30 | 31.75 | 3.15 | 1.57 | 6.35 | 36.90 | 5.50 |
| 24 | 41.20 | 41.55 | 38.40 | 34.92 | 3.82 | 1.57 | 6.35 | 40.05 | 5.50 |

Backshell / Ordering information

| Designation | Contact type | | Plating* | Shell size | | | | | | | | |
|---|---------------|-------|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Solder | Crimp | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | | | | Std | | | | | | | | |
| Backnut | E | R | Std | 8500-5882 LP | 8500-5883 LP | 8500-5884 LP | 8500-5885 LP | 8500-5886 LP | 8500-5887 LP | 8500-5888 LP | 8500-5889 LP | 8500-5890 LP |
| | | | 29 31 | 8500-5882 110 | 8500-5883 110 | 8500-5884 110 | 8500-5885 110 | 8500-5886 110 | 8500-5887 110 | 8500-5888 110 | 8500-5889 110 | 8500-5890 110 |
| | | | 44 | 8500-5882 202 | 8500-5883 202 | 8500-5884 202 | 8500-5885 202 | 8500-5886 202 | 8500-5887 202 | 8500-5888 202 | 8500-5889 202 | 8500-5890 202 |
| Straight cable clamp | EC or AC | RC | Std | 8500-2469 900 | 8500-2470 900 | 8500-2471 900 | 8500-2472 900 | 8500-2473 900 | 8500-2474 900 | 8500-2475 900 | 8500-2476 900 | 8500-2477 900 |
| | | | 29 31 | 8500-2469 902 | 8500-2470 902 | 8500-2471 902 | 8500-2472 902 | 8500-2473 902 | 8500-2474 902 | 8500-2475 902 | 8500-2476 902 | 8500-2477 902 |
| | | | 44 | 8500-2469 903 | 8500-2470 903 | 8500-2471 903 | 8500-2472 903 | 8500-2473 903 | 8500-2474 903 | 8500-2475 903 | 8500-2476 903 | 8500-2477 903 |
| Straight backshell for potting (nut+potting) | Nut | | | | | | | | | | | |
| | P | RP | Std | 8500-1559 LP | 8500-1560 LP | 8500-1561 LP | 8500-1562 LP | 8500-1563 LP | 8500-1564 LP | 8500-1565 LP | 8500-1566 LP | 8500-1567 LP |
| | Potting | | | | | | | | | | | |
| | P | - | - | 8500-466 | 8500-467 | 8500-468 | 8500-469 | 8500-470 | 8500-471 | 8500-472 | 8500-473 | 8500-474 |
| | - | RP | - | 8500-682 | 8500-683 | 8500-684 | 8500-685 | 8500-686 | 8500-687 | 8500-688 | 8500-689 | 8500-690 |
| Straight adaptor | A | RA | Std | 8500-448 LP | 8500-449 LP | 8500-450 LP | 8500-451 LP | 8500-452 LP | 8500-453 LP | 8500-3185 LP | 8500-3186 LP | 8500-456 LP |
| Straight backshell for heatshrink sleeving | T | RT | Std | 8500-4021 LP | 8500-4022 LP | 8500-4023 LP | 8500-4024 LP | 8500-4025 LP | 8500-4026 LP | 8500-4027 LP | 8500-4028 LP | 8500-4029 LP |
| | | | 29 31 | 8500-4021 110 | 8500-4022 110 | 8500-4023 110 | 8500-4024 110 | 8500-4025 110 | 8500-4026 110 | 8500-4027 110 | 8500-4028 110 | 8500-4029 110 |
| Removable straight backshell for heatshrink sleeving | M | RM | Std | 8500-4045 900 | 8500-4046 900 | 8500-4047 900 | 8500-4048 900 | 8500-4049 900 | 8500-4050 900 | 8500-4051 900 | 8500-4052 900 | 8500-4053 900 |
| Removable straight backshell for screen termination & heatshrink sleeving | G | RG | Std | 8501-0188 900 | 8500-8977 900 | 8501-0189 900 | 8500-8978 900 | 8501-0190 900 | 8500-8979 900 | 8500-8980 900 | 8500-8981 900 | 8500-8982 900 |
| | | | 44 | 8501-0188 903 | 8500-8977 903 | 8501-0189 903 | 8500-8978 903 | 8501-0190 903 | 8500-8979 903 | 8500-8980 903 | 8500-8981 903 | 8500-8982 903 |
| | T | RT | 38 | 851 T 08-38 | 851 T 10-38 | 851 T 12-38 | 851 T 14-38 | 851 T 16-38 | 851 T 18-38 | 851 T 20-38 | 851 T 22-38 | 851 T 24-38 |
| | | | 42 | 851 T 08-42 | 851 T 10-42 | 851 T 12-42 | 851 T 14-42 | 851 T 16-42 | 851 T 18-42 | 851 T 20-42 | 851 T 22-42 | 851 T 24-42 |
| Straight sealing gland backshell | Sealing gland | | - | 8500-5873 | 8500-5874 | 8500-5875 | 8500-5876 | 8500-5877 | 8500-5878 | 8500-5879 | 8500-5880 | 8500-5881 |
| | Nut | | Std | 8500-5900 LP | 8500-5901 LP | 8500-5902 LP | 8500-5903 LP | 8500-5904 LP | 8500-5905 LP | 8500-5906 LP | 8500-5907 LP | 8500-5908 LP |
| Straight sealing gland & cable clamp backshell | Sealing gland | | - | 8500-5873 | 8500-5874 | 8500-5875 | 8500-5876 | 8500-5877 | 8500-5878 | 8500-5879 | 8500-5880 | 8500-5881 |
| | Nut | | Std | 8500-5989 900 | 8500-5990 900 | 8500-5991 900 | 8500-5992 900 | 8500-5993 900 | 8500-5994 900 | 8500-5995 900 | 8500-5996 900 | 8500-5997 900 |
| Short backshell for screen termination & heatshrink sleeving | U | RU | Std | - | - | 8500-8474 900 | 8500-8475 900 | 8500-8476 900 | - | - | - | - |
| Straight adaptor for electrical pitch access | Z | RZ | Std | - | - | 8500-8185 LP | 8500-8186 LP | 8500-8187 LP | 8500-8188 LP | 8500-8189 LP | 8500-8190 LP | 8500-8191A LP |

Straight backshells for Receptacle 07 / Ordering information

| Designation | Contact type | | Plating* | Shell size | | | | | | | | |
|--|--------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Solder | Crimp | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | Backnut | E | | R | Std | 8500-8347 LP | 8500-374 LP | 8500-375 LP | 8500-376 LP | 8500-377 LP | 8500-378 LP | 8500-379 LP |
| 29 31 | | | 8500-8347 110 | | 8500-374 110 | 8500-375 110 | 8500-376 110 | 8500-377 110 | 8500-378 110 | 8500-379 110 | 8500-380 110 | 8500-381 110 |
| 44 | | | 8500-8347 202 | | 8500-374 202 | 8500-375 202 | 8500-376 202 | 8500-377 202 | 8500-378 202 | 8500-379 202 | 8500-380 202 | 8500-381 202 |
| Straight cable clamp | EC or AC | RC | Std | 8500-8351 900 | 8500-1790 900 | 8500-1791 900 | 8500-1792 900 | 8500-1793 900 | 8500-1794 900 | 8500-1795 900 | 8500-1796 900 | 8500-1797 900 |
| Straight backshell for potting | P | - | - | 8500-466 | 8500-467 | 8500-468 | 8500-469 | 8500-470 | 8500-471 | 8500-472 | 8500-473 | 8500-474 |
| | - | RP | - | 8500-682 | 8500-683 | 8500-684 | 8500-685 | 8500-686 | 8500-687 | 8500-688 | 8500-689 | 8500-690 |
| Straight backshell for heatshrink sleeving | T | RT | Std | 8500-4776 LP | 8500-4777 LP | 8500-4778 LP | 8500-4779 LP | 8500-4780 LP | 8500-4781 LP | 8500-4782 LP | 8500-4783 LP | 8500-4784 LP |
| | | | 29 31 | 8500-4776 110 | 8500-4777 110 | 8500-4778 110 | 8500-4779 110 | 8500-4780 110 | 8500-4781 110 | 8500-4782 110 | 8500-4783 110 | 8500-4784 110 |

Elbow backshells / Ordering information

| Designation | Contact type | | Plating* | Shell size | | | | | | | | |
|-------------|-----------------------------|-------|--------------|------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|
| | Solder | Crimp | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| | Elbow cable clamp backshell | EC | | RC | Std | 8500-791 900 | 8500-792 900 | 8500-793 900 | 8500-794 900 | 8500-795 900 | 8500-796 900 | 8500-3224 900 |
| 29 31 | | | 8500-791 902 | | 8500-792 902 | 8500-793 902 | 8500-794 902 | 8500-795 902 | 8500-796 902 | 8500-3224 902 | 8500-799 902 | |

***Plating:**

- Std olive green cadmium plating
- 29 black anodised (solder version)
- 031 black anodised (crimp version)
- 44 nickel plating
- 38 nickel plating for backshell for screen termination
- 42 olive green cadmium plating

Push-pull locking plug

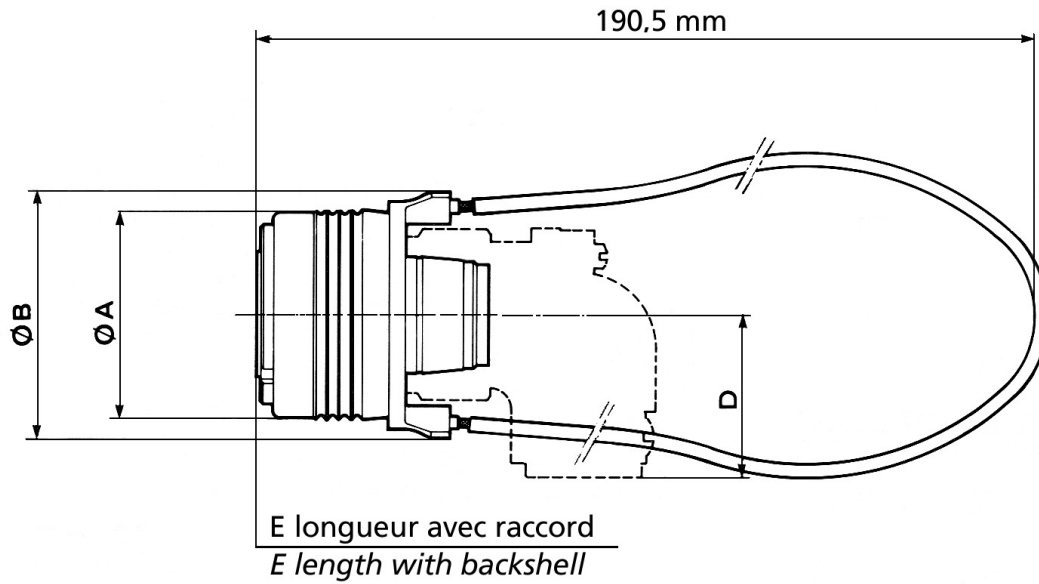
General characteristics

- Locking: by pushing on the coupling nut
- Unlocking: by pulling a lanyard
- Mounted: on all 851 receptacles
- Layouts and crimp solder contacts: (see pages 14 & 15)
- cable gainé noir longueur déroulée 106 mm (for other length, consult us)
- Other characteristics: (see page 16)

Ordering information

| | | | | | | | | | |
|---|--|--|----------|----------|-----------|----------|----------|-----------|-----------|
| Basic Series | 856 | 00 | E | 8 | 3A | P | - | 50 | -- |
| Shell type: | | | | | | | | | |
| 06 | plug for use with straight backshell | | | | | | | | |
| 08 | plug for use with 90° backshell | | | | | | | | |
| Backshell type: | | | | | | | | | |
| Solder | Crimp | | | | | | | | |
| E | R | backnut | | | | | | | |
| EC | RC | straight cable clamp | | | | | | | |
| A | RA | straight adaptor | | | | | | | |
| P | RP | straight backshell for potting | | | | | | | |
| T | RT | straight backshell for heatshrink sleeving | | | | | | | |
| M | RM | straight removable backshell for heatshrink sleeving | | | | | | | |
| EC | RC | 90° cable clamp | | | | | | | |
| Shell size: | | | | | | | | | |
| 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 | | | | | | | | | |
| Contacts layout: | | | | | | | | | |
| see pages 14 & 15 | | | | | | | | | |
| Contact type: | | | | | | | | | |
| P | male | | | | | | | | |
| S | female | | | | | | | | |
| Orientation: | | | | | | | | | |
| Normal (not included in part number). For others note: W, X, Y, Z - see table page 76 | | | | | | | | | |
| Obligatory suffix | | | | | | | | | |
| 50 | | | | | | | | | |
| Specification | | | | | | | | | |
| 07 | olive-green cadmium plating (solder version) | | | | | | | | |
| 08 | olive green cadmium plating (crimp version) | | | | | | | | |
| 09 | white cadmium plating (crimp and solder version) | | | | | | | | |

Push-pull locking plug



| Backshell type | Dimension | Shell size | | | | | | | | |
|-------------------------------------|-----------|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| All | A | 19.50 | 22.80 | 27.30 | 30.80 | 34.00 | 37.00 | 41.00 | 44.50 | 49.20 |
| All | B | 24.95 | 28.25 | 32.55 | 36.05 | 39.05 | 42.05 | 45.80 | 49.20 | 53.45 |
| 06 R | E | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 31.80 | 31.80 | 31.80 |
| 06 RC | E | 47.30 | 47.30 | 47.30 | 47.30 | 50.50 | 50.50 | 49.90 | 49.90 | 49.90 |
| 06 RP | E | 42.10 | 42.10 | 42.10 | 42.10 | 42.10 | 45.40 | 49.80 | 49.80 | 49.80 |
| 06 RA | E | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 43.00 | 43.00 | 43.20 |
| 06 RM | E | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 51.70 | 51.70 | 51.70 |
| 06 RT spécifications 38 or 42 | E | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 51.70 | 51.70 | 51.70 |
| 08RC | E | 50.10 | 52.60 | 54.90 | 58.50 | 60.80 | 65.00 | 68.80 | 71.20 | 76.20 |
| | D max | 16.00 | 18.00 | 19.50 | 22.00 | 23.50 | 25.00 | 26.50 | 28.00 | 31.00 |

Note : For backshells dimensioning, refer to values given in preceding pages

8F51 filter connectors

General information

These connectors are derived from standard specifications
MIL-DTL-26482 G series 1 - NFC 93422 (HE 301 B) - VG 95328.

They are intermountable and intermateable with standard connectors.

Different types of filters may be fitted in these connectors to eliminate RFI/EMI in different frequency ranges.

Using built-in High Performance EMI filters offers the following advantages :

- Efficient filtering on interferences at electronic equipment input or output,

- Case screen-shielding efficiency is maintained,
- Cost and volume saving as compared with the use of discrete filters wired down the line,
- 4 types of standard filters are available - Please consult us for other capacitance and filter types,
- Combinations of mixed filter in the same layout: filtered, non-filtered and grounded contacts available.

An adaptor version is also a simple technique to equip existing systems which do not incorporate filters.

Electrical characteristics

- Max. current rating per contact: 7.5 A (#20), 13 A (#16)
- Max. operating voltage: 200 Vdc, 120 Vac
- Standard filter types: C, Pi
- Capacitance range: typically 500 pF - 200 nF
- Filter performance: up to -60dB / -80dB

For this product, consult our FILTER CONNECTOR department.

SNC specific connectors and connection accessories

General information

These connectors are derived from standard specifications
MIL-DTL-26482 G series 1 - NFC 93422 (HE 301 B) - VG 95328.

They are intermountable and intermateable with standard connectors.

Different types of filters may be fitted in these connectors to eliminate RFI/EMI in different frequency ranges.

Using built-in High Performance EMI filters offers the following advantages :

- Efficient filtering on interferences at electronic equipment input or output

- Case screen-shielding efficiency is maintained
- Cost and volume saving as compared with the use of discrete filters wired down the line
- 4 types of standard filters are available. Please consult us for other capacitance and filter types
- Combinations of mixed filter in the same layout: filtered, non-filtered and grounded contacts available.

An adaptor version is also a simple technique to equip existing systems which do not incorporate filters.

Electrical characteristics

- Max. current rating per contact: 7.5 A (#20), 13 A (#16)
- Max. operating voltage: 200 Vdc, 120 Vac
- Standard filter types: C, Pi
- Capacitance range: typically 500 pF - 200 nF
- Filter performance: up to -60dB / -80dB

For this product, consult our FILTER CONNECTOR department.

| Designations | Part numbers |
|---|----------------------|
| Square flange through bulkhead, pins, sockets Shell sizes 8 to 24: layouts 8.03 / 10.06 / 12.10 / 14.19 / 16.26 / 18.32 / 20.41 / 22.55 / 24.61 Insert rotations: N & W Plating: 085 green cadmium / 112 black anodized | EC 52 B |
| Short profile 90° backshell with cable clamp for 08 RC plug Shell sizes 12, 14, 16, 18 and 22 | SN 556 |
| Plug and receptacle connector Shell size 24 : contact layout = 3 contacts # 16, 7 contacts # 20, 1 coaxial contact 50 Ω (for KX15 cable) | SN 775 P SN 775 S |
| Shunt plug | SN 901 |
| Straight two-piece backshell with sealing gland and cable strap Shell sizes 8, 10 and 16 | SN 946 |
| Plug with flanged coupling nut Shell sizes 20, 22 and 24 | SN 1167 |
| Cable in line receptacle test connector, pins, sockets Shell sizes 8 to 24, arrangements with size contacts # 20 | SN 1206 |
| Ring with lugs with cone-pointed grub screws fitting 851 plug Shell sizes 8 to 24 | SN 1277 |
| Elbow backshell with closing sleeve for shield termination by magnaforming Shell sizes 8 to 24 | SN 1533 |
| Jam nut receptacle with front release straight PC tails Layouts: 14.19 (N) / 16.26 (N) / 18.32 (N, X) / 20.41 (N, W, X, Y) / 22.55 (N, W, X, Y, Z) / 24.61 (N) Plating: passivated green cadmium | SN 0378 |

Other layouts, please consult us

Notes

A large grid area for taking notes, consisting of approximately 25 columns and 35 rows of small squares.

851 SERIES

Contacts & Accessories

| | |
|-------------------------------------|----|
| ■ Crimp contacts | 56 |
| ■ Caps / Ordering information | 57 |
| ■ Plastic protective caps | 59 |
| ■ Filler plugs | 59 |
| ■ Dummy receptacle | 60 |
| ■ Gaskets | 60 |

Crimp contacts

| Standard version | | | | | | | |
|------------------|-----------------------------------|-----------|-----------------|-------------------------|---------------------------|-------------|------|
| Contact size | Specification | Wire size | | Part number | | insulator Ø | |
| | | AWG | mm ² | Male | Female | min. | max. |
| #20 Ø1 mm | For layouts 8-2, 8-3, 8-4 & 12-14 | 24-18 | 0.21-0.93 | 8500-9573* | 8500-9213 900* | 1.20 | 2.11 |
| | For further contact layout | 24-18 | 0.21-0.93 | 8500-697 | 8500-1758A 900 | 1.20 | 2.11 |
| | Reducing sleeve | 30-24 | 0.06-0.21 | 8500-781 B1 | | - | - |
| #16 Ø1.6 mm | - | 18-14 | 0.93-1.91 | 8500-1300 | 8500-9331 900 | 1.60 | 2.80 |
| | Reducing sleeve | 20 | 0.60 | 8500-1985 B1 | | - | - |

| Thermocouple version | | | | | | | |
|----------------------|---------------|-----------|-----------------|-----------------------|--------------------------|-------------|------|
| Contact size | Specification | Wire size | | Part number | | insulator Ø | |
| | | AWG | mm ² | Male | Female | min. | max. |
| #20 Ø1 mm | Chromel | 24-18 | 0.21-0.93 | 8500-809 A | 8500-2054 900 | 1.20 | 2.11 |
| | Alumel | 24-18 | 0.21-0.93 | 8500-812 A | 8500-2055 900 | 1.20 | 2.11 |
| #16 Ø1.6 mm | Chromel | 18-14 | 0.93-1.91 | 8500-1053 | 8500-1054 900 | 1.60 | 2.80 |
| | Alumel | 20 | 0.60 | 8500-812 A | 8500-1059 900 | 1.60 | 2.80 |

Note: all dimensions are in mm

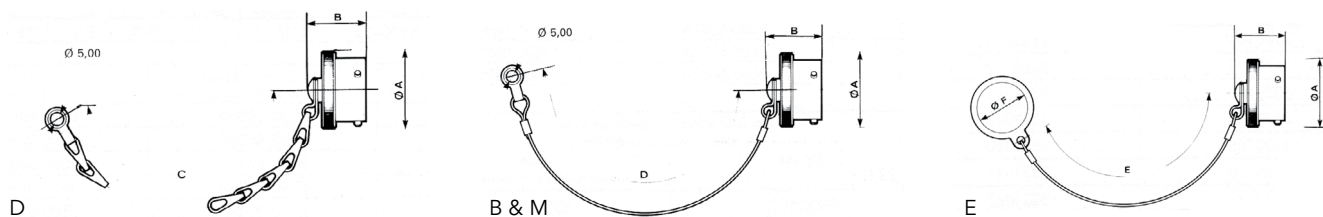
Caps / Ordering information

| | | | | | | | | | | |
|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|
| Basic Series | | | | | | | | 8500 | 05 | -- |
| Shell type: | 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 | |
| Specifications: For cap & plating, see table below | | | | | | | | | | |

Type and plating

| Cap type | Receptacle cap | | | | Plug cap | | | |
|--|---------------------|---------------|----------------|--------|---------------------|---------------|----------------|--------|
| | Olive green cadmium | White cadmium | Black anodised | Nickel | Olive green cadmium | White cadmium | Black anodised | 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, 14, 16 & 18) | - | - | - | - | E | - | - | - |
| Cap with nylon cord and washer | H | - | - | 44 H | - | - | - | - |
| Cap with chain and washer | J | - | - | - | - | - | - | - |
| Cap 500hr salt spray | JQ7 | - | - | - | - | - | - | - |
| Cap without chain | M | - | - | - | M | - | - | - |

Caps for plugs

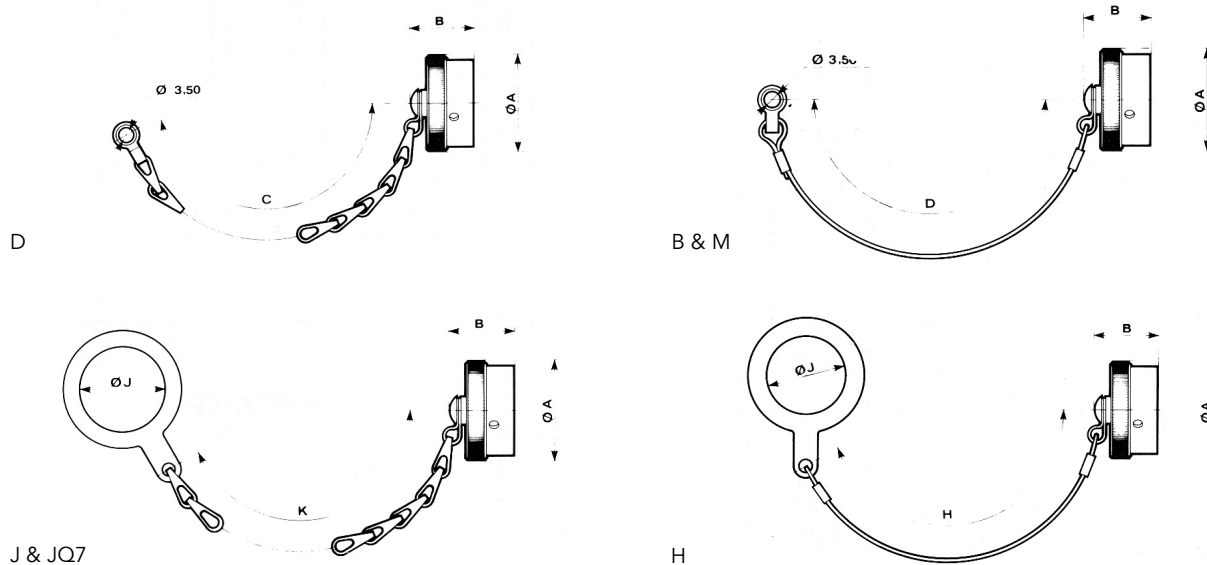


| Shell size | Ø A max | B max | C+6 | D+2 | E | Ø F |
|------------|---------|-------|-----|-----|------------|------------|
| 8 | 16.80 | 19.84 | 132 | 128 | consult us | consult us |
| 10 | 19.80 | 19.84 | 132 | 128 | 132 | 14.00 |
| 12 | 23.90 | 19.84 | 148 | 140 | 148 | 17.60 |
| 14 | 27.00 | 19.84 | 148 | 140 | 148 | 20.80 |
| 16 | 30.20 | 19.84 | 148 | 140 | 148 | 25.60 |
| 18 | 33.40 | 19.84 | 148 | 140 | 148 | 28.70 |
| 20 | 36.50 | 21.44 | 168 | 153 | consult us | consult us |
| 22 | 39.80 | 21.44 | 168 | 153 | consult us | consult us |
| 24 | 42.90 | 22.22 | 168 | 153 | consult us | consult us |

Note: all dimensions are in mm

Caps

Caps for receptacles

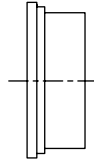


| Shell size | Ø A max | B max | C ⁺⁶ ₀ | D ⁺² ₀ | J max | H ⁺² ₀ | K ⁺⁶ ₀ |
|------------|---------|-------|------------------------------|------------------------------|-------|------------------------------|------------------------------|
| 8 | 19.00 | 21.44 | 84 | 77 | 14.80 | 80 | 84 |
| 10 | 21.80 | 21.44 | 84 | 77 | 17.90 | 80 | 84 |
| 12 | 26.10 | 21.44 | 100 | 89 | 22.70 | 90 | 100 |
| 14 | 29.30 | 21.44 | 100 | 89 | 25.90 | 90 | 100 |
| 16 | 32.50 | 21.44 | 100 | 89 | 29.00 | 90 | 100 |
| 18 | 35.30 | 21.44 | 100 | 89 | 32.20 | 90 | 100 |
| 20 | 38.80 | 21.44 | 116 | 102 | 35.40 | 110 | 116 |
| 22 | 42.00 | 21.44 | 116 | 102 | 38.60 | 110 | 116 |
| 24 | 45.10 | 22.22 | 116 | 102 | 41.70 | 110 | 116 |

Note: all dimensions are in mm

Accessories

Plastic protective caps for receptacles and plugs



| Shell size | Caps for receptacles | Caps for plugs |
|------------|----------------------|----------------|
| 8 | 8500-5585 A | 8500-5594 |
| 10 | 8500-5586 A | 8500-5595 |
| 12 | 8500-5587 A | 8500-5596 |
| 14 | 8500-5588 A | 8500-5597 |
| 16 | 8500-5589 A | 8500-5598 |
| 18 | 8500-5590 A | 8500-5599 |
| 20 | 8500-5591 A | 8500-5600 |
| 22 | 8500-5592 A | 8500-5601 |
| 24 | 8500-5593 A | 8500-5602 |

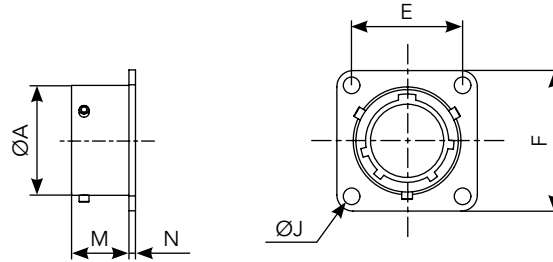
Filler plugs

| Contact size | Part number | Color |
|----------------|---------------------------------------|-------|
| #20 Ø1 mm | 8500-4144 | grey |
| | 8500-4144 A (MS 3187 A 20) | red |
| #16 Ø1.6 mm | 8500-479 | blue |
| | 8500-4267 (MS 3187-16) | |

Note: all dimensions are in mm

Accessories

Dummy receptacles



| Shell size | Part numbers | A | C max | E | J | M max | N max |
|------------|--------------|-------|-------|-------|------|-------|-------|
| 8 | 8500-18 | 12.03 | 20.99 | 15.09 | 3.13 | 11.70 | 1.32 |
| 10 | 8500-19 | 15.01 | 24.19 | 18.26 | 3.13 | 11.70 | 1.32 |
| 12 | 8500-20 | 19.07 | 26.54 | 20.62 | 3.13 | 11.70 | 1.32 |
| 14 | 8500-21 | 22.25 | 28.89 | 23.00 | 3.13 | 11.70 | 1.32 |
| 16 | 8500-26 | 25.42 | 31.29 | 24.61 | 3.13 | 11.70 | 1.32 |
| 18 | 8500-22 | 28.60 | 33.69 | 26.97 | 3.13 | 11.70 | 1.32 |
| 20 | 8500-23 | 31.77 | 36.89 | 29.36 | 3.13 | 14.35 | 2.15 |
| 22 | 8500-24 | 34.95 | 39.99 | 31.75 | 3.13 | 14.35 | 2.15 |
| 24 | 8500-25 | 38.12 | 43.15 | 34.92 | 3.81 | 15.20 | 2.15 |

Gaskets

| Shell size | Gaskets for square flange receptacle | | Gaskets for jam nut receptacle | |
|------------|--------------------------------------|-----------|--------------------------------|---------|
| | Néoprène | Fairprène | Néoprène | Vitton |
| 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 |

Note: all dimensions are in mm

851 SERIES

Technical Information

| | |
|---|----|
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| ■ Discrimination / Keying methods | 76 |

Tooling

Crimp tooling - Contact #20 & 16



Part number

8365
(M 22520/1-01)

Locator - Contact #20 & 16



Part number

8365-02
(M 22520/1-02)

Crimp tooling - Contact #20



Part number

8476-01
(M 22520/2-01)

Locator - Contact #20



Part number

8476-02
(M 22520/2-02)

Insertion tools - Crimp contact



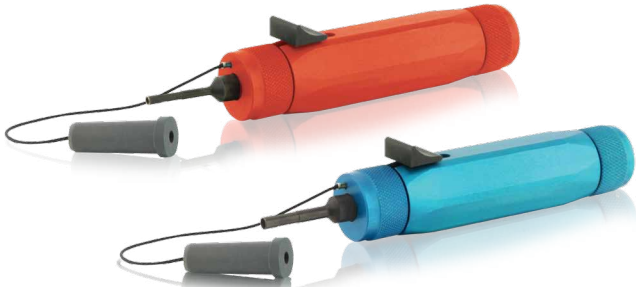
Part number

8500-29B*

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

Tooling

Extraction tools - Crimp contact



Part number #20

8500-36A

Part number #16

8500-38A

Strap backshell



Part number

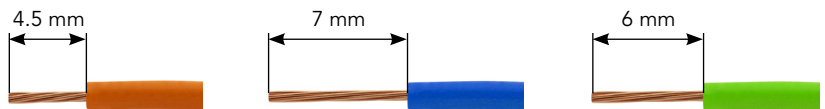
8498-04

Stripping instructions

- This operation should be carried out with great care. Use stripping pliers which are in good condition and which are designed for use with the size of wire being stripped.
- In order to maintain the connector's excellent sealing characteristics and, at the same time, meet the highest cabling standards the wires should have the following external sheath dimensions :

| Contacts size | Ø over sheath | |
|---------------|---------------|------|
| | min. | max. |
| 20 | 1.20 | 2.11 |
| 16 | 1.60 | 2.80 |

- Recommended loading:
 - 050 % with max. diam. wires
 - 050 % with min. diam. wires
 - 100 % with medium size wires.
- Size 20 contacts for cables:
 - when Ø over insulation ≤ 2 mm strip to a 4.5 mm length
 - when Ø over insulation > 2 mm strip to a 7 mm length.
- Size 16 contacts, strip the cable to a length of 6 mm.



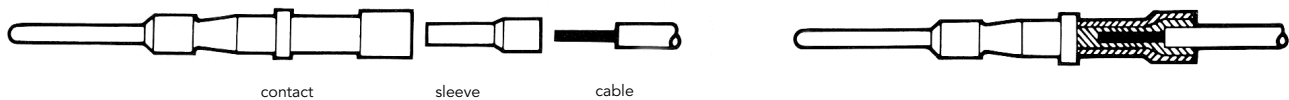
Cable-contact assembly

- Insert the wire into the crimp barrel and ensure that it has penetrated correctly by checking that it may be seen through the lateral hole in the barrel.



Reducing sleeve

- If a wire with a cross sectional area of less than 0.21 mm² is used with a size 20 contact, it will be necessary to use a reducing sleeve: ref. 8500-781.
- Wires of cross sectional area of 0.6 mm² may be used with size 16 contacts by using a reducing sleeve, ref. 8500-1985.



Crimping instructions

- With crimping pliers MS 22520/1-01 SOURIAU part number 8365 and turret MS 22520/1-02 8365-02:
 - «red» position for size 20 contacts
 - «blue» position for size 16 contacts.
- With crimping pliers MS 22520/2-01 SOURIAU part number 8476-01 and locator MS 22520/2-02 8476-02:
 - for size 20 contacts only.



Note : not be used with reducing sleeve.

Squeeze pliers firmly until a click is heard, the pliers should spring open when the ratched mechanism is released.

- Hold indenter side up-insert the wire-contact assembly or wire-reducing sleeve-contact assembly between the four indentors, ensuring that the contact bottoms in the locator.
- Fully close the jaws, once the contact is crimped the pliers must spring open remove wire + crimped contact, check crimp aspect.



Crimp contact insertion

First disassemble and slide connector rear accessory over cables.

Insertion tools

- Pliers 8500-29B.
- Except 8-2, 8-3, 8-4, 12-14 contact layouts: tool 8500-93B

Use of insertion tools

Manually insert the contact into the desired insert cavity.

- Insert the wire between the pliers jaws, the tip of the jaws butting the contact shoulder.
- Introduce contacts one by one in insert cavities pushing straight in until the contact snaps into position and the clip ensures contact retention.



Filler plugs

Where certain contacts are unwired and where it is necessary to fully maintain the connector's sealing characteristics, a filler plug must be used. Note that the contact must be inserted before the filler plug.



Crimp contact extraction

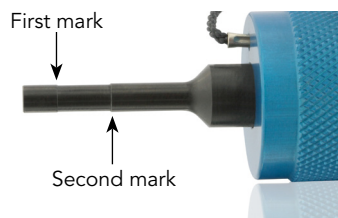
All contacts for use in insulators with clips are extracted using a semi-automatic tool:

- size 20 contacts: tool type 8500-36A
- size 16 contacts: tool type 8500-38A.



First disassemble and slide connector rear accessory over cables.

- Do not operate the tool slide button.
- Bring the tool tip over the male or female contact to be removed from connector front (mating face) as far as the first mark for male contacts and the second mark for female contacts.



- This operation, should be carried out delicately in a direction parallel to the contact centre line with a light turning action.
- Extract contact pushing the slide button fully forward, carefully remove tool and pull wire to release the wire-contact assembly.

Note : tools have an adjustable spring system (rear knurled knob) also for automatic contact disengagement.

Cross reference list

851 version with crimp contacts (olive green cadmium plating)

Connector with backshells

| SOURIAU | NCF 93422 (modèle HE 301B) | MIL-DTL-26482G série 1 | 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 .. | - | - | - |
| 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 08 RC 50 .. | HE 301 B 08 RC 1A | - | - |

* Not QPL

851 version with crimp contacts (other plating)

| Plating | SOURIAU | | NCF 93422 (modèle HE 301B) |
|----------------|---------------------|----------------------|-------------------------------|
| | Solder version | Crimp version | |
| Black anodised | 851 5029 | 851 50031 | HE 301B 4A |
| Nickel | 851 5044 | 851 5044 | HE 301B 5A |

Cross reference list

851 version with solder contacts (olive green cadmium plating)

Connector with backshells

| SOURIAU | NCF 93422 (modèle HE 301B) | MIL-DTL-26482G série 1 | VG 95328 |
|-------------------------|-------------------------------|------------------------|--------------------|
| 851 00 E 50 .. | HE 301 B 00 E 1A | MS 3110 E | - |
| 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 | VG 95328 H |
| 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 Hermetic version

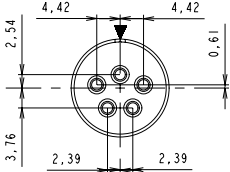
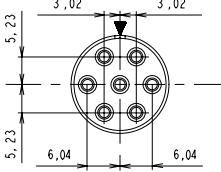
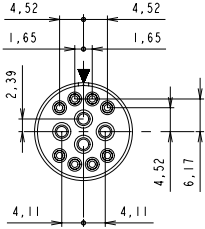
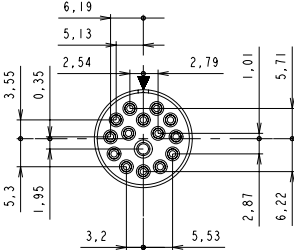
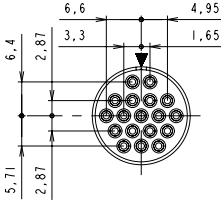
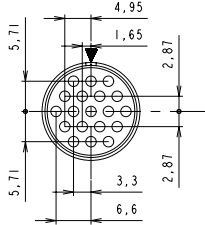
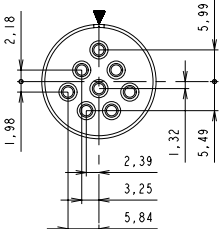
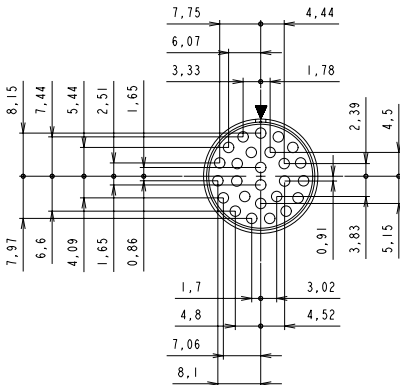
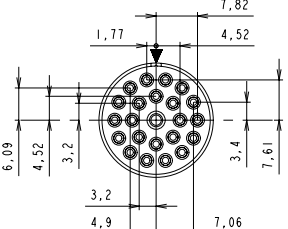
| SOURIAU | NFC 93422 (modèle HE 301B) | MIL-DTL-26482G série 1 | VG 95328 |
|--------------------|-------------------------------|------------------------|-------------------|
| 851 02 H .. . P.50 | HE 301 B 02 H .. . P.3A | | |
| 851 07 H .. . P.50 | HE 301 B 07 H .. . P.3A | * MS 3114 H .. . P. | VG 95328 F |
| 851 I H .. . P.50 | HE 301 B 1 H .. . P.3A | * MS 3113 H .. . P. | VG 95328 G |

* Not QPL

Drilling pattern - Male rear face

| Shell Size | Dimension (mm) | | | | | | | |
|------------|---|--|---|--|--|--|--|--|
| 8 | <p>8-2 2 contacts 2xØ1.0 (#20)</p> | <p>8-3 3 contacts 3xØ1.0 (#20)</p> | <p>8-3A/8-98 3 contacts 3xØ1.0 (#20)</p> | <p>8-33 3 contacts 3xØ1.0 (#20)</p> | <p>8-4 4 contacts 4xØ1.0 (#20)</p> | | | |
| | 10 | <p>10-6 6 contacts 6xØ1.0 (#20)</p> | <p>10-98 6 contacts 6xØ1.0 (#20)</p> | <p>10-7 7 contacts 7xØ1.0 (#20)</p> | | | | |
| | | 12 | <p>12-2 2 contacts 2xØ1.6 (#16)</p> | <p>12-3 3 contacts 3xØ1.6 (#16)</p> | <p>12-4 3 contacts +ground 4xØ1.6 (#16)</p> | <p>12-8 8 contacts 8xØ1.0 (#20)</p> | | |
| | | | <p>12-10 10 contacts 10xØ1.0 (#20)</p> | | <p>12-14 14 contacts 14xØ1.0 (#20)</p> | | | |

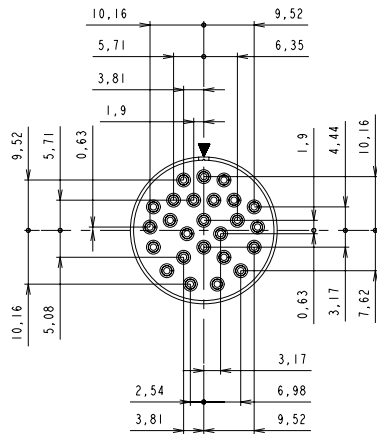
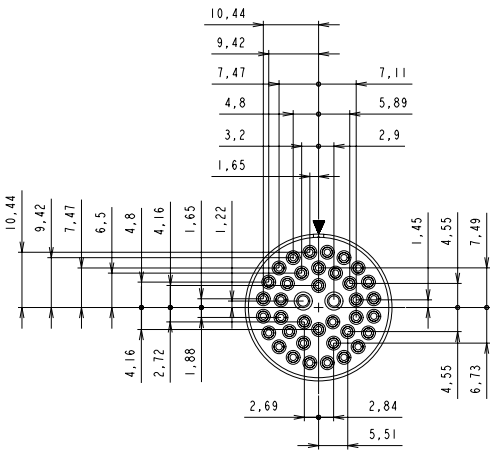
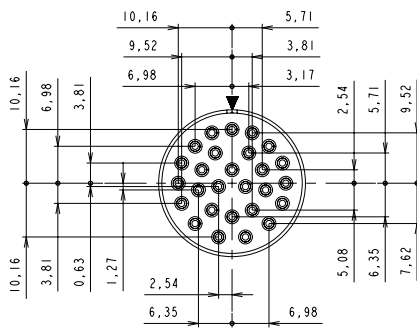
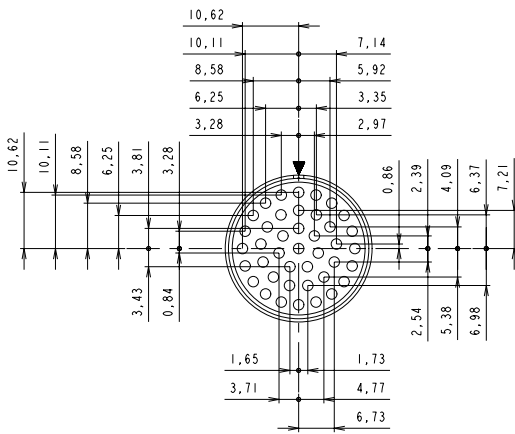
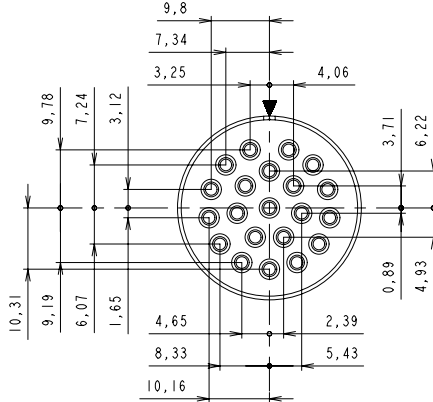
Drilling pattern - Male rear face

| Shell Size | Dimension (mm) | | | |
|------------|---|---|---|--|
| 14 | <p>14-5 5 contacts 5x\varnothing1.6 (#16)</p>  | <p>14-7 6 contacts +ground 7x\varnothing1.6 (#16)</p>  | <p>14-12 12 contacts 8x\varnothing1.0 (#20) 4x\varnothing1.6 (#16)</p>  | |
| | <p>14-15 15 contacts 14x\varnothing1.0 (#20) 1x\varnothing1.6 (#16)</p>  | <p>14-18 18 contacts 18x\varnothing1.0 (#20)</p>  | <p>14-19 19 contacts 19x\varnothing1.0 (#20)</p>  | |
| | 16 | <p>16-8 8 contacts 8x\varnothing1.6 (#16)</p>  | <p>16-26 26 contacts 26x\varnothing1.0 (#20)</p>  | <p>16-23 23 contacts 22x\varnothing1.0 (#20) 1x\varnothing1.6 (#16)</p>  |

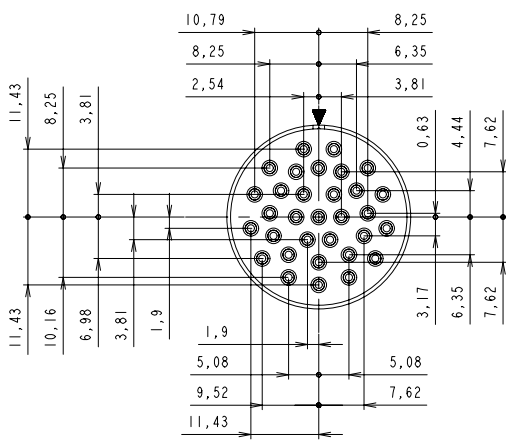
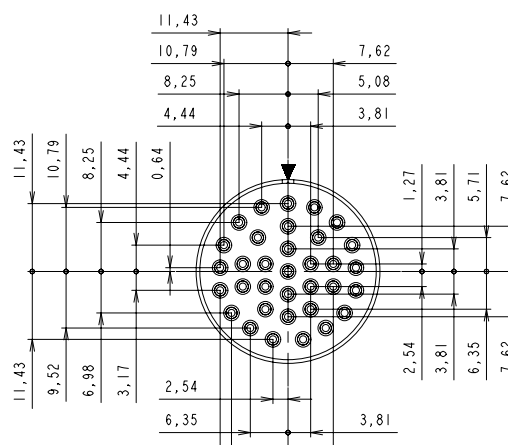
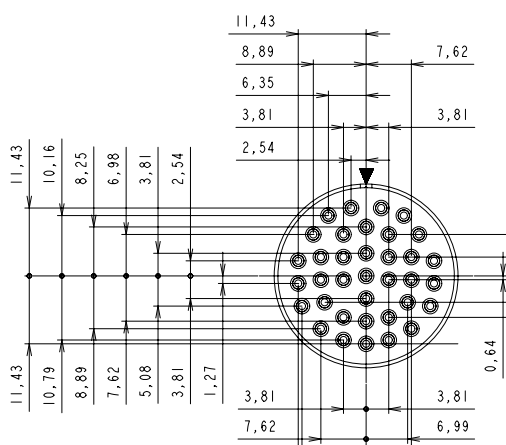
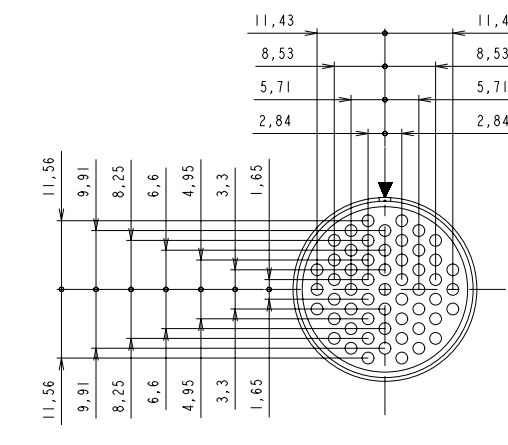
Drilling pattern - Male rear face

| Shell Size | Dimension (mm) | |
|------------|---|--|
| 18 | <div style="display: flex; justify-content: space-around;"> <div data-bbox="292 399 568 777"> <p>18-11 11 contacts 11xØ1.6 (#16)</p> </div> <div data-bbox="990 399 1445 987"> <p>18-30 30 contacts 29xØ1.0 (#20) 1xØ1.6 (#16)</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>18-32 32 contacts 32xØ1.6 (#16)</p> </div> | |
| | 20 | <div style="display: flex; justify-content: space-around;"> <div data-bbox="259 1428 617 1848"> <p>20-16 16 contacts 16xØ1.6 (#16)</p> </div> <div data-bbox="1023 1428 1412 1890"> <p>20-24 24 contacts 24xØ1.0 (#20)</p> </div> </div> |

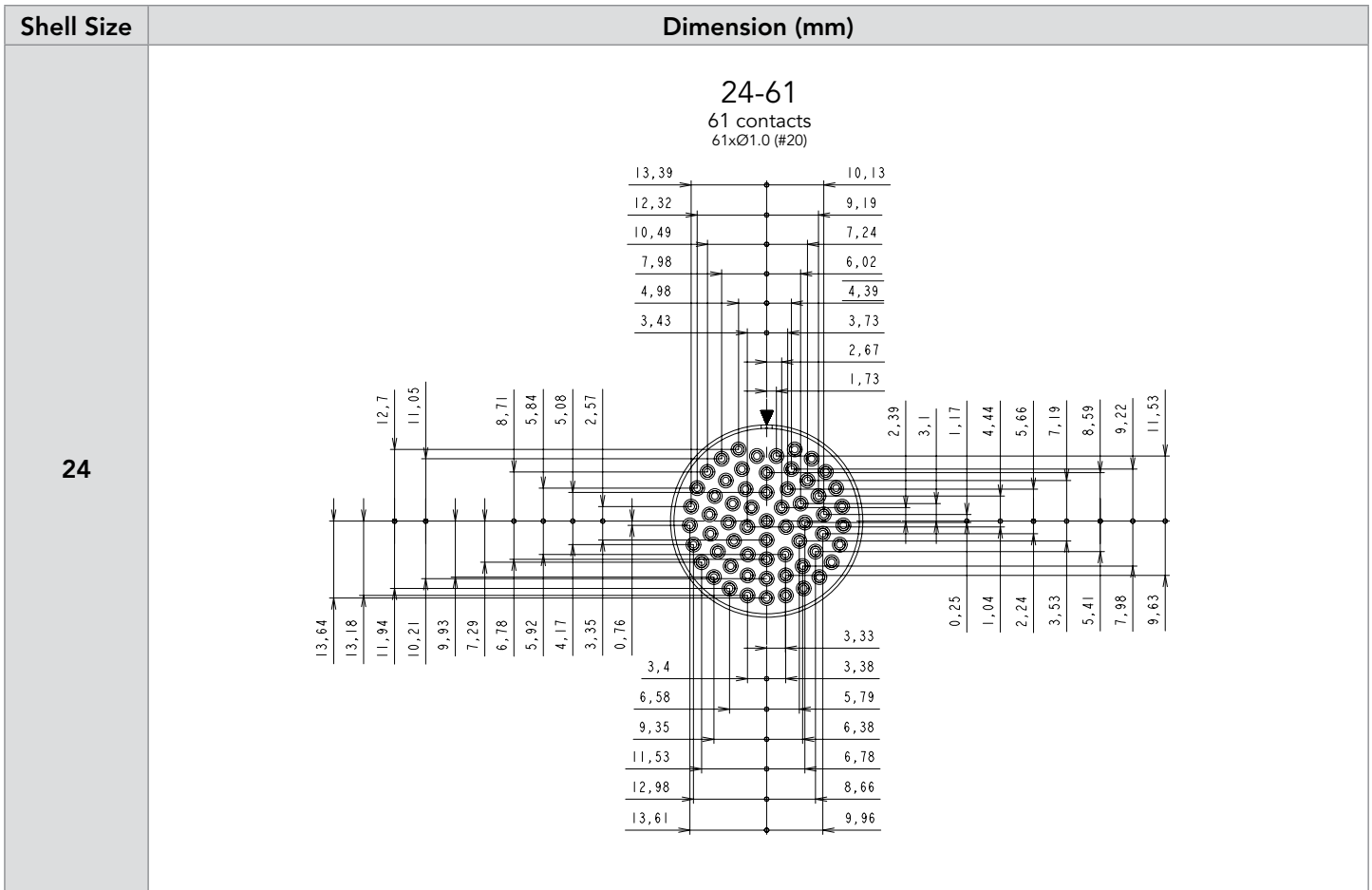
Drilling pattern - Male rear face

| Shell Size | Dimension (mm) |
|------------|--|
| 20 | <p>20-25 25 contacts 25xØ1.0 (#20)</p>  |
| | <p>20-39 39 contacts 37xØ1.0 (#20) 2xØ1.6 (#16)</p>  |
| | <p>20-27 27 contacts 27xØ1.0 (#20)</p>  |
| | <p>20-41 41 contacts 41xØ1.0 (#20)</p>  |
| 22 | <p>22-21 21 contacts 21xØ1.6 (#16)</p>  |

Drilling pattern - Male rear face

| Shell Size | Dimension (mm) | |
|------------|---|---|
| 22 | <p style="text-align: center;">22-32 32 contacts 32xØ1.0 (#20)</p>  <p>Dimensions (mm): 10,79, 8,25, 6,35, 2,54, 3,81, 0,63, 4,44, 7,62, 11,43, 10,16, 8,25, 3,81, 6,98, 3,81, 1,9, 3,17, 6,35, 7,62, 1,9, 5,08, 5,08, 9,52, 7,62, 11,43.</p> | <p style="text-align: center;">22-34 34 contacts 34xØ1.0 (#20)</p>  <p>Dimensions (mm): 11,43, 10,79, 7,62, 8,25, 5,08, 4,44, 3,81, 0,64, 4,44, 11,43, 10,79, 8,25, 4,44, 0,64, 9,52, 6,98, 3,17, 2,54, 1,27, 3,81, 5,71, 7,62, 6,35, 3,81, 2,54, 3,81, 9,52, 7,62, 11,43.</p> |
| | <p style="text-align: center;">22-36 36 contacts 36xØ1.0 (#20)</p>  <p>Dimensions (mm): 11,43, 8,89, 7,62, 6,35, 3,81, 2,54, 11,43, 7,62, 3,81, 3,81, 10,79, 8,89, 7,62, 6,98, 3,81, 2,54, 1,27, 3,81, 3,81, 0,64, 4,44, 6,98, 7,62, 6,99, 10,8, 7,62, 11,43.</p> | <p style="text-align: center;">22-55 55 contacts 55xØ1.0 (#20)</p>  <p>Dimensions (mm): 11,43, 8,53, 8,53, 5,71, 5,71, 2,84, 2,84, 11,43, 11,56, 9,91, 8,25, 6,6, 4,95, 3,3, 1,65, 9,91, 8,25, 6,6, 4,95, 3,3, 1,65.</p> |

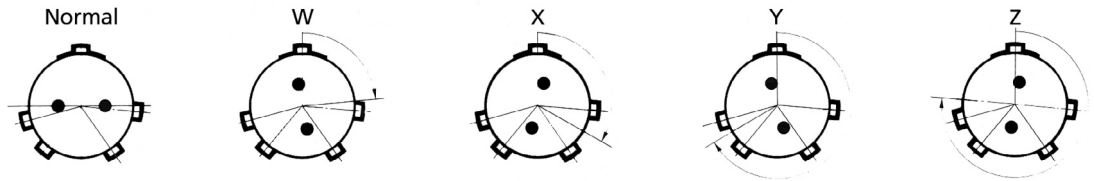
Drilling pattern - Male rear face



Discrimination / Keying methods

Insulator rotated inside metal bod

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



| Shells | Layouts | Angle in degrees | | | | NFC 93422 HE 301B | | MIL-DTL-26482G serie 1 | | Service1 1500 Vrms | Service 2 2300 Vrms |
|--------|---------|------------------|-----|-----|-----|-------------------|-------|------------------------|-------|-----------------------|------------------------|
| | | W | X | Y | Z | Solder | Crimp | Solder | Crimp | | |
| 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* | 90 | - | - | - | | | | | X | |
| | 98 | 90 | 180 | 240 | 270 | | | • | • | X | |
| 12 | 3 | - | - | 180 | - | • | • | • | • | | X |
| | 4 | | | | | | | | | | |
| | 8 | 90 | 112 | 203 | 292 | | | • | • | X | |
| | 10 | 60 | 155 | 270 | 295 | • | • | • | • | X | |
| | 2 | - | - | - | - | | | | | | X |
| 14 | 14* | 45 | | | | | | • | | X | |
| | 5 | 40 | 92 | 184 | 273 | • | • | • | • | | X |
| | 7 | | | | | | | | | | |
| | 12 | 43 | 90 | - | - | • | • | • | • | X | |
| | 15 | 17 | 110 | 155 | 234 | • | • | • | • | X | |
| | 18 | 15 | 90 | 180 | 270 | | | • | • | X | |
| 16 | 19 | 30 | 165 | 315 | - | • | • | • | • | X | |
| | 8 | 54 | 152 | 180 | 331 | • | • | • | • | | X |
| | 23 | 158 | 270 | - | - | • | • | • | • | X | |
| | 26 | 60 | - | 275 | 338 | • | • | • | • | X | |
| 18 | 11 | 62 | 119 | 241 | 340 | • | • | • | • | | X |
| | 32 | 85 | 138 | 222 | 265 | • | • | • | • | X | |
| | 30 | 180 | 193 | 285 | 350 | | • | | • | X | |
| 20 | 16 | 238 | 318 | 333 | 347 | • | • | • | • | | X |
| | 39 | 63 | 144 | 252 | 333 | • | • | • | • | X | |
| | 41 | 45 | 126 | 225 | - | • | • | • | • | X | |
| | 24 | 70 | 145 | 215 | 290 | | | • | • | X | |
| | 25 | 72 | 144 | 216 | 288 | | | | | X | |
| 22 | 27 | 72 | 144 | 216 | 288 | | • | | • | X | |
| | 21 | 16 | 135 | 175 | 349 | • | • | • | • | | X |
| | 36 | 72 | 144 | 216 | 288 | | • | | | X | |
| | 55 | 30 | 142 | 226 | 314 | • | • | • | • | X | |
| | 32 | 72 | 145 | 215 | 288 | | | | • | X | |
| 24 | 34 | 62 | 142 | 218 | 298 | | | | • | X | |
| | 61 | 90 | 180 | 270 | 324 | • | • | • | • | X | |

* 8-98 layout, W and X non standard orientations
10-7 & 12-14 layouts, W non standard orientation

Notes

A large grid area for taking notes, consisting of 20 columns and 30 rows of small squares.

Notes

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

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