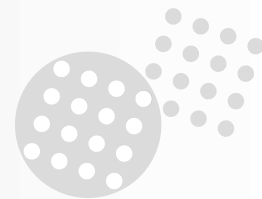


# 84 Series



## Presentation

The 84 bayonet series has been especially designed for light and harsh environment. Its physical characteristics and performances are appreciated in a large range of applications including :

- **Factory automation - Machine tool - Light electronics : 840 series**
- **Heavy transportation - Mining and harsh environment : 845 series**
- **Military Ground Equipment - Heavy weapons : 847 series**

## Large variety of backshells

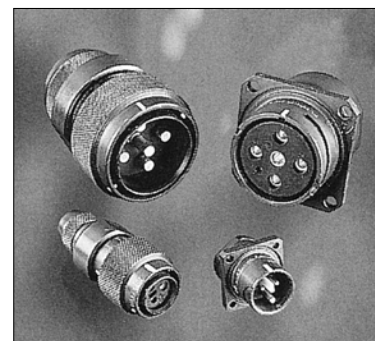
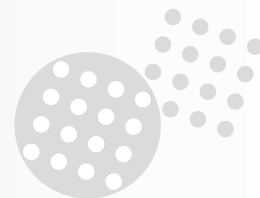


## Wide range of wire gauges and current carrying capabilities

Wire sizes from 24 through 00 AWG can be accommodated. Contacts are rated from 7,5 amps up to 200 amps



# 84 Series



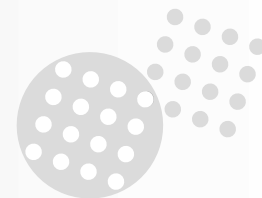
| Series               | 840 Series                                                                 | 845 Series                              | 847 Series                             |
|----------------------|----------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| Shell material       | Aluminium                                                                  | Steel                                   | Steel                                  |
| Plating              | Alodine 1200                                                               | Yellow cadmium<br>olive green cadmium   | White cadmium<br>olive green cadmium   |
| Endurance            | 500 cycles                                                                 | 500 cycles                              | 500 cycles                             |
| Number of contacts   | 1 to 61<br>from Ø 1 to Ø 10 mm                                             | 1 to 61<br>from Ø 1 to Ø 10 mm          | 3 to 6<br>from Ø 1,5 to Ø 5 mm         |
| Withstanding voltage | 2000 Vrms                                                                  | 2800 Vrms                               | 2000 Vrms                              |
| Current rating       | 7,5 A to 200 A<br>(AWG 24 to AWG 00)                                       | 7,5 A to 200 A<br>(AWG 24 to AWG 00)    | 16 A to 63 A                           |
| Protection class     | IP 65<br>Hose proof protected against<br>water jets from all directions    | IP 68<br>Water tight                    | IP 67                                  |
| Type of termination  | Solder<br>Crimp<br>Straight spill                                          | Solder<br>Crimp                         | Crimp                                  |
| Others               | Straight spill contacts<br>Ground contacts<br>Plastic and metal backshells | Sealing grommet<br>Gold plated contacts | Pilot contacts<br>VDE contacts layouts |

840 Series

845 Series

847 Series

# 840 Series



## Applications

- Factory automation & machine tools
- Test & measurement instrumentation
- Transportation



## Description

- A connector set consists of : a plug, a receptacle or in line receptacle, backshells & accessories
- A bayonet coupling system allows quick connection and disconnection of connectors
- A mechanical index is provided to guide housings for correct alignment and the insulators may be rotated at different angles to give a specific orientation to otherwise similar connectors.

## Characteristics

### Mechanical

- Shell : aluminium alloy and thermoplastic
- Plating : alodine
- Insulator : neoprene elastomer monobloc
- Contact : copper alloy
- Plating : silver or gold
- Endurance : 500 mating/unmating operations
- Contact retention : (for crimp version)
  - Ø 1 : 50 N Ø 3,5 : 100 N Ø 10 : 200 N
  - Ø 1,5 : 70 N Ø 5 : 150 N
  - Ø 2,5 : 80 N Ø 7 : 150 N

### Electrical

- Test voltage : 2000 Vrms (except Ø 1 contact) : 1500 Vrms
- Contact resistance :
  - Ø 1 :  $\leq 3 \text{ m}\Omega$  Ø 1,5 :  $\leq 1,5 \text{ m}\Omega$
  - Ø 2,5 :  $\leq 0,6 \text{ m}\Omega$  Ø 3,5 :  $\leq 0,35 \text{ m}\Omega$
  - Ø 5 :  $\leq 0,25 \text{ m}\Omega$  Ø 7 :  $\leq 0,15 \text{ m}\Omega$
  - Ø 10 :  $\leq 0,08 \text{ m}\Omega$
- Insulation resistance :  $\geq 5000 \text{ M}\Omega$  (at 500 Vdc)
- Current rating :
  - Ø 1 : 7,5 A Ø 3,5 : 40 A Ø 10 : 200 A
  - Ø 1,5 : 11 A Ø 5 : 63 A
  - Ø 2,5 : 25 A Ø 7 : 120 A

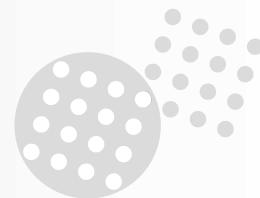
### Environmental

- Temperature range : -40°C +85°C
- Sealing : as per NFC 20010 - IP65
- Salt spray : as per NFC 20611 (48 hours)

## Ordering information

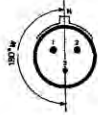
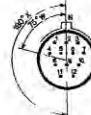
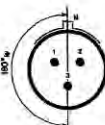
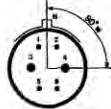
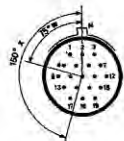
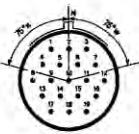
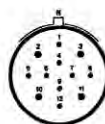
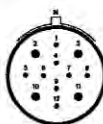
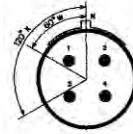
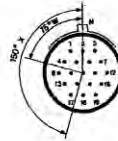
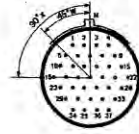
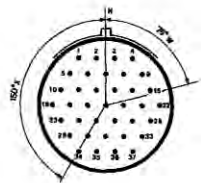
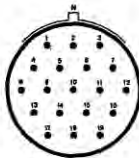
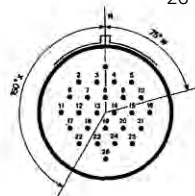
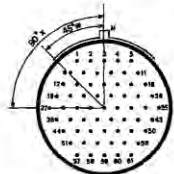
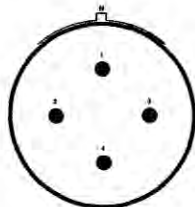
| basic series                   |   | 840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 21 | 1 | 3 | 0 | • | ••• XS |
|--------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|--------|
| contact layout (see next page) |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |   |   |   |        |
| shell type                     | 1 | square flange receptacle                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |   |   |   |   |        |
|                                | 8 | plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |   |   |   |   |        |
|                                | 5 | cable connecting receptacle                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |   |   |   |   |        |
|                                | 9 | flange mounted plug<br>(without backshell - shell size 1 to 5 with 001 specification only)                                                                                                                                                                                                                                                                                                                                                                                                      |    |   |   |   |   |        |
| contact type                   | 1 | male crimp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |   |   |   |   |        |
|                                | 3 | male solder or spill                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |   |   |   |   |        |
|                                | 5 | female crimp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |   |   |   |   |        |
|                                | 7 | female solder or spill                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |   |   |   |        |
| backshell                      | 0 | connector supplied without backshell                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |   |   |   |   |        |
|                                | 2 | connector supplied with backnut                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |   |   |   |        |
| orientation                    |   | blank : standard orientation<br>W or X other orientations (see next page)                                                                                                                                                                                                                                                                                                                                                                                                                       |    |   |   |   |   |        |
| specification                  |   | without specification : silver plated crimp or solder contact<br>001 gold plated crimp contacts + metal retainer ring<br>002 gold plated crimp contacts<br>SP2 gold plated solder contacts<br>004 silver plated spill contacts Ø 0.8 mm length : 8.50 mm<br>SP1 male connector with one longest contact<br>008 male connector with one longest contact and grounding plate<br>XS X = indicates the number of large barrel crimp contacts Ø 1.5 mm to be delivered with the connector (see p 11) |    |   |   |   |   |        |

# 840 Series



## Contact layouts and polarizations

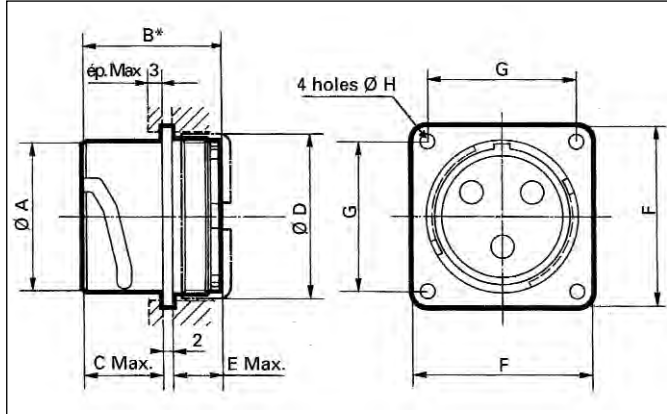
Viewed from front face of male insulator

|            |                                                                                                             |                                                                                                                                                                                                                                                                                              |                                                                                                                 |                                                                                                                 |                                                                                                        |                                                                                                                    |                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| shell<br>1 | 3 Ø 1,5<br><br>11 ● * ▲    | 2 Ø 1,5<br><br>12                                                                                                                                                                                           | 1 Ø 3,5<br><br>13 ■            | 7 Ø 1<br><br>19 ■              |                                                                                                        |                                                                                                                    |                                                                                                         |
| shell<br>2 | 7 Ø 1,5<br><br>21 ● * ▲    | 1 Ø 1,5<br>2 Ø 2,5<br><br>22                                                                                                                                                                                | 3 Ø 2,5<br><br>23 ● *          | 4 Ø 2,5<br><br>24 ●            | 3 Ø 1,5<br><br>26    | 12 Ø 1<br><br>29 ■              |                                                                                                         |
| shell<br>3 | 12 Ø 1,5<br><br>31 ● * ▲ | 3 Ø 3,5<br><br>32                                                                                                                                                                                         | 4 Ø 3,5<br><br>33            | 2 Ø 3,5<br>4 Ø 1,5<br><br>34 | 1 Ø 10<br><br>35 □ | 19 Ø 1<br><br>39 ■            |                                                                                                         |
| shell<br>4 | 19 Ø 1,5<br><br>41 ● * ▲ | 8 Ø 1,5<br>4 Ø 2,5<br><br>42                                                                                                                                                                              | 4 Ø 3,5<br>8 Ø 1,5<br><br>43 | 6 Ø 2,5<br>6 Ø 1,5<br><br>44 | 4 Ø 5<br><br>45    | 2 Ø 2,5<br>12 Ø 1,5<br><br>46 | 37 Ø 1<br><br>49 ■ |
| shell<br>5 | 37 Ø 1,5<br><br>51 ●     | 19 Ø 2,5<br><br>52                                                                                                                                                                                        | 26 Ø 1,5<br><br>53          | 61 Ø 1<br><br>54 ■         |                                                                                                        |                                                                                                                    |                                                                                                         |
| shell<br>6 | 4 Ø 7<br><br>65          | <div>Available arrangements :<br/>■ crimp only (specification 002)<br/>□ solder only<br/>* in 008</div> <div>▲ spill contacts<br/>● in SP1</div> <div>SP1 and 008 silver plated solder contacts only, the longest contact is always loaded in the cavity identified as 1 in insulator.</div> |                                                                                                                 |                                                                                                                 |                                                                                                        |                                                                                                                    |                                                                                                         |

# 840 Series

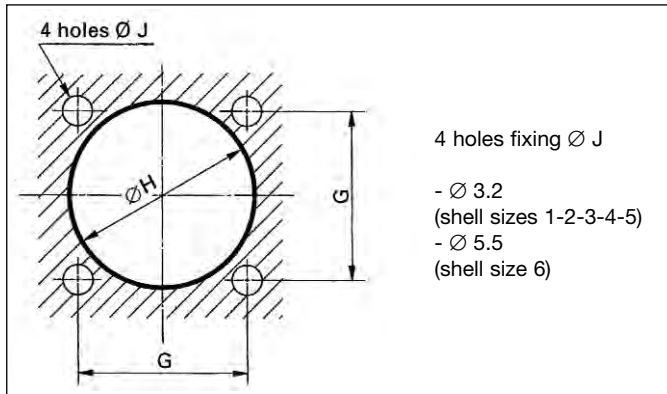


## Square flange receptacle type 1



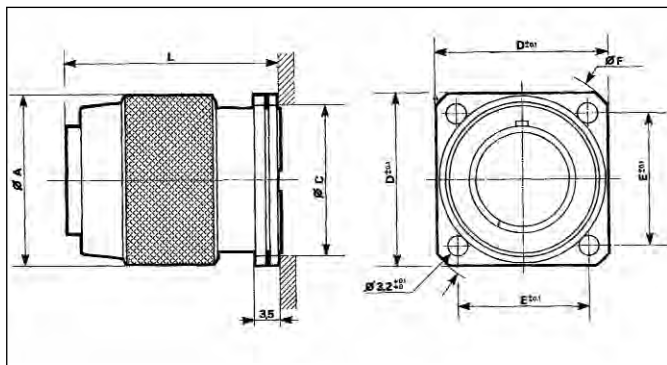
| shells<br>dim. | 1             | 2             | 3             | 4             | 5             | 6             |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| A              | 16<br>.63     | 20<br>.79     | 26<br>1.02    | 31<br>1.22    | 43<br>1.69    | 57<br>2.24    |
| B*             | 27.50<br>1.08 | 27.50<br>1.08 | 27.90<br>1.10 | 27.90<br>1.10 | 39.10<br>1.54 | 39.10<br>1.54 |
| C              | 16<br>.63     | 16<br>.63     | 17<br>.67     | 17<br>.67     | 17<br>.67     | 17<br>.67     |
| D              | 18.50<br>.73  | 22.50<br>.89  | 27.50<br>1.08 | 33.50<br>1.32 | 44.50<br>1.75 | 61<br>2.40    |
| E              | 12.50<br>.49  | 12.50<br>.49  | 12<br>.47     | 12<br>.47     | 23.50<br>.93  | 26<br>1.02    |
| F              | 24<br>.94     | 27<br>1.06    | 31<br>1.22    | 37<br>1.46    | 49<br>1.93    | 66<br>2.60    |
| G              | 18<br>.71     | 21<br>.83     | 25<br>.98     | 31<br>1.22    | 41<br>1.61    | 53<br>2.09    |
| H              | 3.20<br>.13   | 3.20<br>.13   | 3.20<br>.13   | 3.20<br>.13   | 3.20<br>.13   | 5.50<br>.22   |

## Panel cut-out



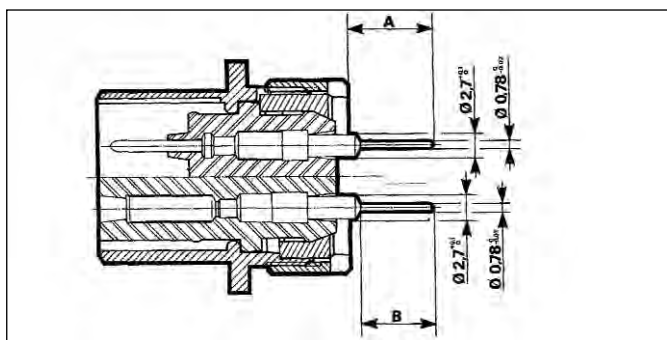
| shells<br>dim. | 1            | 2            | 3             | 4             | 5          | 6          |
|----------------|--------------|--------------|---------------|---------------|------------|------------|
| G ± 0,10       | 18<br>.71    | 21<br>.83    | 25<br>.98     | 31<br>1.22    | 41<br>1.61 | 53<br>2.09 |
| H              | 19.50<br>.77 | 23.50<br>.93 | 28.50<br>1.12 | 34.50<br>1.36 | 46<br>1.81 | 62<br>2.44 |

## Flange mounted plug type 9



| shells<br>dim. | 1             | 2             | 3             | 4             | 5             |
|----------------|---------------|---------------|---------------|---------------|---------------|
| A              | 22.50<br>.89  | 26.50<br>1.04 | 33<br>1.30    | 39<br>1.54    | 51<br>2.01    |
| L              | 32.50<br>1.28 | 32.50<br>1.28 | 32.50<br>1.28 | 32.50<br>1.28 | 43.50<br>1.71 |
| C              | 19<br>.75     | 23<br>.91     | 28<br>1.10    | 34<br>1.34    | 45.50<br>1.79 |
| D              | 24<br>.94     | 27<br>1.06    | 31<br>1.22    | 37<br>1.46    | 49<br>1.93    |
| E              | 18<br>.71     | 21<br>.83     | 25<br>.98     | 31<br>1.22    | 41<br>1.61    |
| F              | 31.50<br>1.24 | 36<br>1.42    | 41.50<br>1.63 | 50<br>1.97    | 64<br>2.52    |

## Square flange receptacle type 1 with straight spills contacts



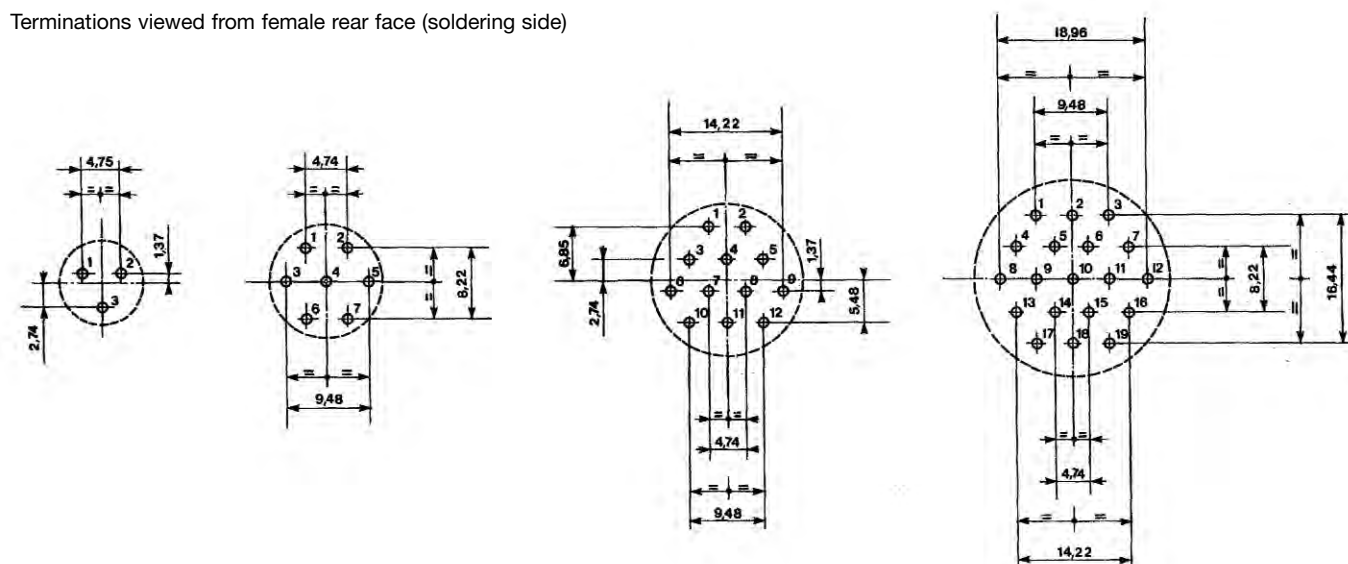
| contact<br>type | shells | A               |                      | B <sup>+0,1</sup> <sub>0</sub> |
|-----------------|--------|-----------------|----------------------|--------------------------------|
| Long<br>spills  | 1-2-3  | min<br>9<br>.35 | Max.<br>10.50<br>.41 | 8.50<br>.33                    |
|                 | 4      | 9.50<br>.37     | 11<br>.43            |                                |

# 840 Series



## Straight spill layout for arrangements 11-21-31 and 41

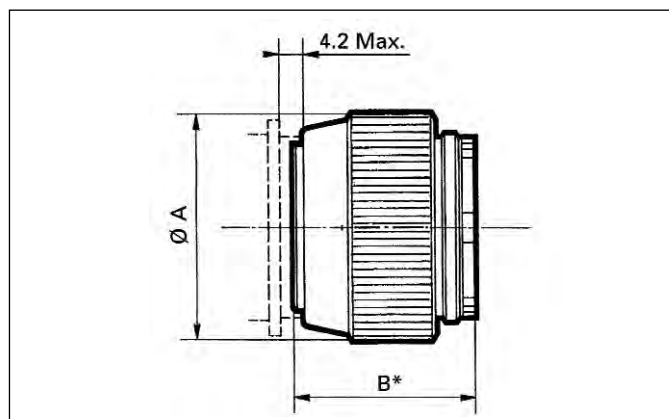
Terminations viewed from female rear face (soldering side)



hole sizes : 0.9 mm

## Dimensions

### Plug type 8



To calculate overall dimensioning of connector and backshell assembly, add the 2 dimensions B of each part.

Example :

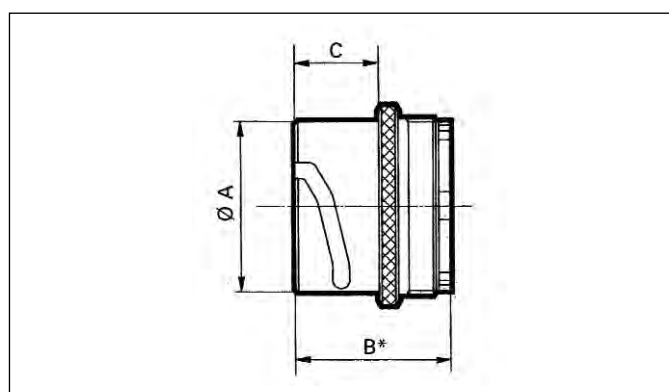
Plug type 8 + backnut (002) shell size 1 =  $31.5 + 2.5 = 34$  mm

Receptacle type 1 + backnut (002) shell size 1 =  $27.5 + 2.5 = 30$  mm

B\* includes retention cone

| shells | 1             | 2             | 3             | 4             | 5             | 6             |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| dim.   |               |               |               |               |               |               |
| A      | 22.50<br>.89  | 26.50<br>1.04 | 33<br>1.30    | 39<br>1.54    | 51<br>2.01    | 65<br>2.56    |
| B*     | 31.50<br>1.24 | 31.50<br>1.24 | 31.50<br>1.24 | 31.50<br>1.24 | 42.70<br>1.68 | 42.70<br>1.68 |

### Cable connecting receptacle type 5



| shells | 1             | 2             | 3             | 4             | 5             | 6             |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| dim.   |               |               |               |               |               |               |
| A      | 16<br>.63     | 20<br>.79     | 26<br>1.02    | 31<br>1.22    | 43<br>1.69    | 57<br>2.24    |
| B*     | 27.50<br>1.08 | 27.50<br>1.08 | 27.90<br>1.10 | 27.90<br>1.10 | 39.10<br>1.54 | 39.10<br>1.54 |
| C      | 14.50<br>.57  | 14.50<br>.57  | 15.50<br>.61  | 15.50<br>.61  | 15.50<br>.61  | 15.50<br>.61  |

# 840 Series

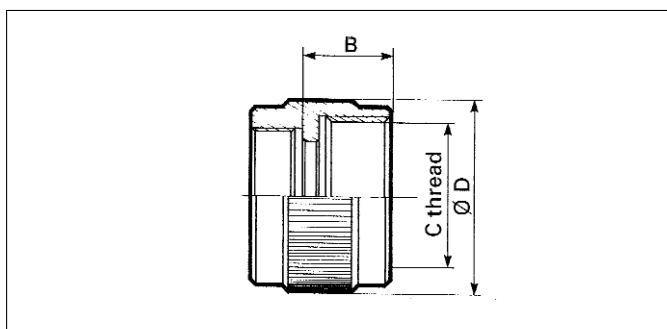


## Backshells

|                   |  |      |  |                                                                                                     |  |                                                                  |  |     |  |     |  |   |  |
|-------------------|--|------|--|-----------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------|--|-----|--|-----|--|---|--|
| basic series      |  | 840  |  | 2                                                                                                   |  | 0                                                                |  | 002 |  | ... |  |   |  |
| shell size        |  | 1    |  | 2                                                                                                   |  | 3                                                                |  | 4   |  | 5   |  | 6 |  |
| obligatory suffix |  |      |  |                                                                                                     |  |                                                                  |  |     |  |     |  |   |  |
| backshell type    |  | 002  |  | backnut                                                                                             |  |                                                                  |  |     |  |     |  |   |  |
|                   |  | 003  |  | large outlet                                                                                        |  | - straight metal backshells with cable clamp for crimp connector |  |     |  |     |  |   |  |
|                   |  | 004  |  | standard outlet                                                                                     |  | - elbow metal backshells with cable clamp for crimp connector    |  |     |  |     |  |   |  |
|                   |  | 005  |  | large outlet                                                                                        |  | - elbow metal backshells with cable clamp for crimp connector    |  |     |  |     |  |   |  |
|                   |  | 006  |  | standard outlet                                                                                     |  | - elbow metal backshells with cable clamp for crimp connector    |  |     |  |     |  |   |  |
|                   |  | 008  |  | plastic straight or angled backshell with cable clamp and sealing gland (shell sizes 1, 2, 3, 4, 5) |  |                                                                  |  |     |  |     |  |   |  |
|                   |  | 0010 |  | metal straight backshell with cable clamp and sealing gland (shell sizes 2, 3, 4)                   |  |                                                                  |  |     |  |     |  |   |  |
|                   |  | 0011 |  | metal straight backshell with sealing gland and threaded outlet (shell sizes 2, 3, 4)               |  |                                                                  |  |     |  |     |  |   |  |
|                   |  | 0039 |  | gaz thread adaptor (shell sizes 1, 2, 3, 4, 5)                                                      |  |                                                                  |  |     |  |     |  |   |  |
| specification     |  |      |  | indicates specification for backshell sealing gland diameter type 0010                              |  |                                                                  |  |     |  |     |  |   |  |

|                |    |                                                                                                                                                                                                 |     |    |    |    |     |   |    |   |  |       |   |   |   |   |  |   |         |    |    |    |    |    |    |
|----------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----|-----|---|----|---|--|-------|---|---|---|---|--|---|---------|----|----|----|----|----|----|
| basic series   |    |                                                                                                                                                                                                 | 840 |    | 2  |    | PEF |   | 16 |   |  |       |   |   |   |   |  |   |         |    |    |    |    |    |    |
| shell size     |    | 1                                                                                                                                                                                               |     | 2  |    | 3  |     | 4 |    | 5 |  |       |   |   |   |   |  |   |         |    |    |    |    |    |    |
| backshell type |    | electrical thread adaptor                                                                                                                                                                       |     |    |    |    |     |   |    |   |  |       |   |   |   |   |  |   |         |    |    |    |    |    |    |
| thread type    |    | <table><tr><td>shell</td><td>1</td><td>2</td><td>3</td><td colspan="2">4</td><td>5</td></tr><tr><td>PE type</td><td>13</td><td>16</td><td>21</td><td>21</td><td>29</td><td>29</td></tr></table> |     |    |    |    |     |   |    |   |  | shell | 1 | 2 | 3 | 4 |  | 5 | PE type | 13 | 16 | 21 | 21 | 29 | 29 |
| shell          | 1  | 2                                                                                                                                                                                               | 3   | 4  |    | 5  |     |   |    |   |  |       |   |   |   |   |  |   |         |    |    |    |    |    |    |
| PE type        | 13 | 16                                                                                                                                                                                              | 21  | 21 | 29 | 29 |     |   |    |   |  |       |   |   |   |   |  |   |         |    |    |    |    |    |    |

## Electric thread adaptor

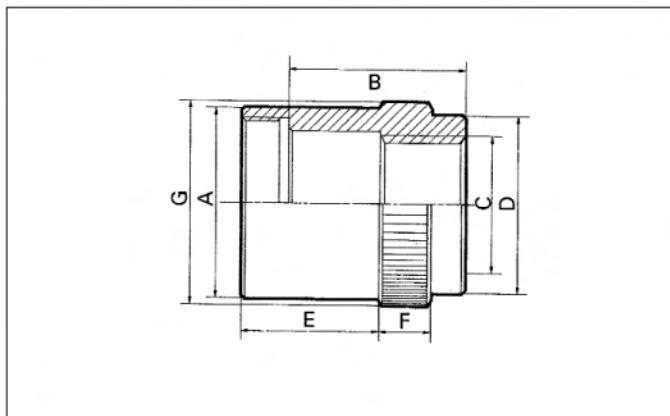


| <div>shells</div> <div>dim.</div> | 1            | 2             | 3            | 4            |              | 5            |
|-----------------------------------|--------------|---------------|--------------|--------------|--------------|--------------|
| B Max.                            | 18.70<br>.74 | 18.70<br>.74  | 19.30<br>.76 | 19.30<br>.76 | 18.70<br>.74 | 19.30<br>.76 |
| C thread PE                       | 13<br>.51    | 16<br>.63     | 21<br>.83    | 21<br>.83    | 29<br>1.14   | 29<br>1.14   |
| D Max.                            | 22.50<br>.89 | 26.50<br>1.04 | 33<br>1.30   | 43<br>1.69   | 43<br>1.69   | 51<br>2.01   |

# 840 Series

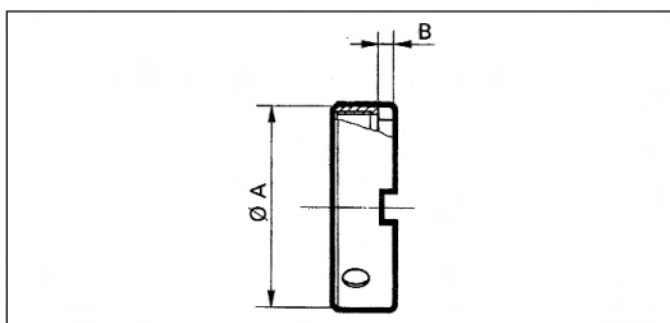


## Gaz thread adaptor type 0039



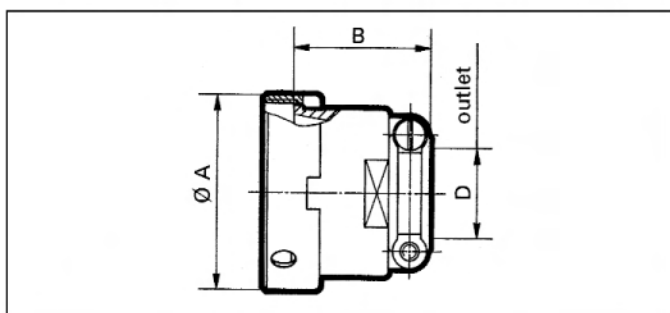
| dim. \ shells | 1                | 2                | 3                | 4                | 5              |
|---------------|------------------|------------------|------------------|------------------|----------------|
| A             | 19<br>.75        | 23<br>.91        | 29<br>1.14       | 35<br>1.38       | 46<br>1.81     |
| B             | 15.50<br>.61     | 18<br>.71        | 21<br>.83        | 22<br>.87        | 31<br>1.22     |
| C             | G-1/4"<br>13.157 | G-3/8"<br>16.662 | G-1/2"<br>20.955 | G-3/4"<br>26.441 | G-1"<br>33.249 |
| D             | 23.50<br>.93     | 22<br>.87        | 27<br>1.06       | 34<br>1.34       | 44<br>1.73     |
| E             | 15<br>.59        | 17<br>.67        | 20<br>.79        | 25<br>.98        | 27.50<br>1.08  |
| F             | 8<br>.31         | 8<br>.31         | 8<br>.31         | 8<br>.31         | 9<br>.35       |
| G             | 24.50<br>.96     | 25<br>.98        | 31<br>1.22       | 37<br>1.46       | 48<br>1.89     |

## Metallic backnut type 002



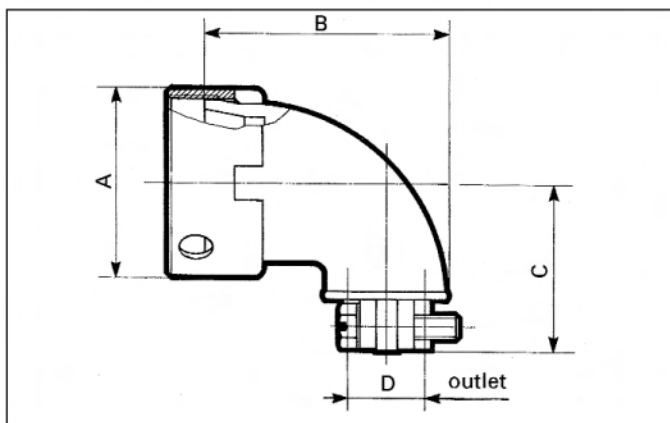
| dim. \ shells | 1            | 2            | 3             | 4             | 5             | 6          |
|---------------|--------------|--------------|---------------|---------------|---------------|------------|
| A             | 18.50<br>.73 | 22.50<br>.89 | 27.50<br>1.08 | 33.50<br>1.32 | 44.50<br>1.75 | 61<br>2.40 |
| B             | 2.50<br>.10  | 2.50<br>.10  | 2.50<br>.10   | 2.50<br>.10   | 2<br>.08      | 3<br>.12   |

## Straight metal backshell with cable clamp type 003 and 004 depending on outlet Ø



| <div>shells</div> <div>dim.</div> |   | 1            | 2            | 3             | 4             | 5             | 6          |
|-----------------------------------|---|--------------|--------------|---------------|---------------|---------------|------------|
| 004                               | A | 18.50<br>.73 | 22.50<br>.89 | 27.50<br>1.08 | 33.50<br>1.32 | 45<br>1.77    | 61<br>2.40 |
|                                   | B | 15.50<br>.61 | 16.50<br>.65 | 23.50<br>.93  | 23.50<br>.93  | 27.50<br>1.08 | 45<br>1.77 |
|                                   | D | 7<br>.28     | 10<br>.39    | 13.50<br>.53  | 15.50<br>.61  | 22.50<br>.89  | 36<br>1.42 |
| 003                               | B | 22<br>.87    | 22<br>.87    | 23.50<br>.93  | 26.50<br>1.04 | 36.50<br>1.44 | -          |
|                                   | D | 8.50<br>.33  | 12<br>.47    | 15<br>.59     | 18<br>.71     | 27<br>1.06    | -          |

## Angled metal backshell with cable clamp type 005 and 006 depending on outlet Ø

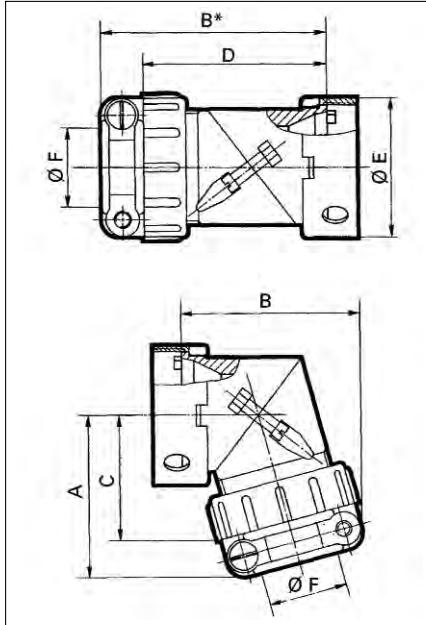


| shells<br>dim.     |     | 1 | 2            | 3            | 4             | 5             | 6            |   |
|--------------------|-----|---|--------------|--------------|---------------|---------------|--------------|---|
|                    |     | A | 18.50<br>.73 | 22.50<br>.89 | 27.50<br>1.08 | 33.50<br>1.32 | 45<br>1.77   | - |
| standard<br>outlet | 006 | B | 27.50<br>.73 | 30<br>1.18   | 34.50<br>1.36 | 37.50<br>1.48 | 51<br>2.01   | - |
|                    |     | C | 16<br>.63    | 20.50<br>.81 | 22.50<br>.89  | 28<br>1.10    | 40<br>1.57   | - |
|                    |     | D | 6.50<br>.26  | 9.50<br>.37  | 13<br>.51     | 15<br>.59     | 22.50<br>.89 | - |
| large<br>outlet    | 005 | B | -            | -            | 45<br>1.77    | 51.50<br>2.03 | -            | - |
|                    |     | C | -            | -            | 40.50<br>1.59 | 41.50<br>1.63 | -            | - |
|                    |     | D | -            | -            | 16<br>63      | 20<br>79      | -            | - |

# 840 Series

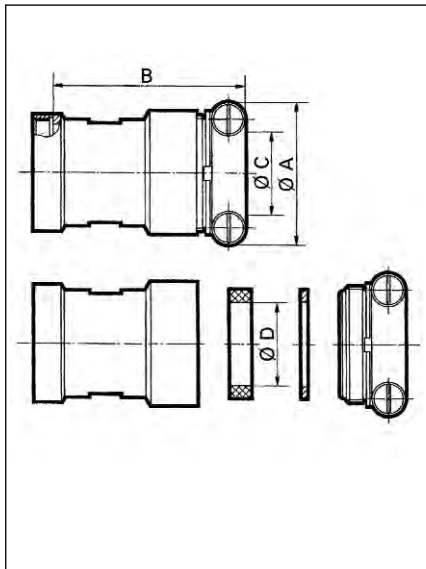


## Convertible straight angled backshell type 008 with cable clamp and sealing gland



| shells | 1             | 2             | 3             | 4             | 5             |
|--------|---------------|---------------|---------------|---------------|---------------|
| dim.   |               |               |               |               |               |
| A      | 22.50<br>.89  | 27.50<br>1.08 | 31.50<br>1.24 | 33<br>1.30    | 50.50<br>1.99 |
| B      | 26<br>1.02    | 31.50<br>1.24 | 36.50<br>1.44 | 43.50<br>1.71 | 57<br>2.24    |
| B*     | 33.50<br>1.32 | 40.50<br>1.59 | 46<br>1.81    | 55<br>2.17    | 74<br>2.91    |
| C      | 18<br>.71     | 21.50<br>.85  | 25<br>.98     | 29.50<br>1.16 | 43.50<br>1.71 |
| D      | 28.50<br>1.12 | 34.50<br>1.36 | 39<br>1.54    | 45<br>1.77    | 65.50<br>2.58 |
| E      | 18.50<br>.73  | 22.50<br>.89  | 27.50<br>1.08 | 33.50<br>1.32 | 45<br>1.77    |
| F      | 7<br>.28      | 10            | 15<br>.59     | 19<br>.75     | 22.50<br>.89  |

## Metal backshell with sealing gland and cable clamp type 0010

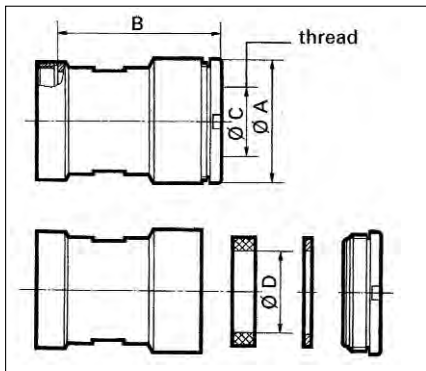


Ø of sealing gland gasket for backshell type 0010

| shells | 2          | 3          | 4          |
|--------|------------|------------|------------|
| dim.   |            |            |            |
| A      | 27.50 1.08 | 37 1.46    | 42 1.65    |
| B      | 44.50 1.75 | 52.50 2.07 | 47.50 1.87 |
| C      | 14.60 .57  | 19.60 .77  | 24.60 .97  |

| shells | Ø D       | specification |
|--------|-----------|---------------|
| 2      | 10.00 .39 | 003           |
|        | 12.50 .49 | 004           |
|        | 14.50 .57 | 005           |
| 3      | 14.00 .55 | 006           |
|        | 16.00 .63 | 007           |
|        | 18.00 .71 | 008           |
|        | 19.50 .77 | 009           |
| 4      | 16.00 .63 | 010           |
|        | 18.50 .73 | 011           |
|        | 20.50 .81 | 012           |
|        | 22.50 .89 | 013           |
|        | 24.50 .96 | 014           |

## Metal backshell with sealing gland type 0011



| shells | 2                                     | 3                                     | 4                                     |
|--------|---------------------------------------|---------------------------------------|---------------------------------------|
| dim.   |                                       |                                       |                                       |
| A      | 26<br>1.02                            | 31<br>1.22                            | 36<br>1.42                            |
| B      | 39<br>1.54                            | 44<br>1.73                            | 49<br>1.93                            |
| C      | 15.25<br>.60<br>thread<br>1.41<br>.06 | 18.65<br>.73<br>thread<br>1.41<br>.06 | 20.45<br>.81<br>thread<br>1.41<br>.06 |
| D      | 14.50<br>.57                          | 19.50<br>.77                          | 24.50<br>.96                          |

# 840 Series



## Crimp contacts

| Contact Ø                                  | Contact type | Part numbers | Admissible wire section |     |       |      | Max Ø over insulator | Part numbers Reducing sleeves | Admissible wire section |      |      |      |
|--------------------------------------------|--------------|--------------|-------------------------|-----|-------|------|----------------------|-------------------------------|-------------------------|------|------|------|
|                                            |              |              | AWG                     |     | mm²   |      |                      |                               | AWG                     |      | mm²  |      |
|                                            |              |              | min                     | Max | min   | Max  |                      |                               | min                     | Max. | min  | Max. |
| Ø 1<br>all shells                          | male         | 8500-697     | 24                      | 18  | 0.21  | 0.93 | 2.40                 | 8500-781                      | 30                      | 26   | 0.06 | 0.15 |
|                                            | female       | 8500-1758    |                         |     |       |      |                      |                               |                         |      |      |      |
| Ø 1,5<br>small barrel shells<br>1, 2, 3, 4 | male         | 8400-307A    | 22                      | 18  | 0.38  | 0.93 | 3.30                 | 63-584                        | 30                      | 24   | 0.06 | 0.21 |
|                                            | female       | 8400-619B    |                         |     |       |      |                      |                               |                         |      |      |      |
| Ø 1,5<br>large barrel shells<br>1, 2, 3, 4 | male         | 8400-144A    | 16                      | 14  | 1.34  | 1.91 | 3.30                 | —                             | —                       | —    |      |      |
|                                            | female       | 8400-618B    |                         |     |       |      |                      |                               |                         |      |      |      |
| Ø 2,5<br>shells<br>1, 2, 3, 4              | male         | 8400-270A    | 12                      | 10  | 3.18  | 5.30 | 5.10                 | 8400-1665                     | 14                      | 1.91 |      |      |
|                                            | female       | 8400-147A    |                         |     |       |      |                      |                               |                         |      |      |      |
| Ø 3,5<br>all shells                        | male         | 8400-352A    | —                       | 8   | 8.98  |      | 6.40                 | 8400-1029                     | 10                      | 5.30 |      |      |
|                                            | female       | 8400-148A    |                         |     |       |      |                      |                               |                         |      |      |      |
| Ø 5                                        | male         | 8400-833     | 12                      |     | 13.40 |      | 8.00                 | 8400-2315                     | 8                       | 8.98 |      |      |
|                                            | female       | 8400-834     |                         |     |       |      |                      |                               |                         |      |      |      |
| Ø 10                                       | male         | 8400-1799    | —                       |     | 16.00 |      | 8.50                 | -                             | -                       | -    |      |      |
|                                            | female       | 8400-1801    |                         |     |       |      |                      |                               |                         |      |      |      |

## Crimp contacts for shell sizes 5 and 6

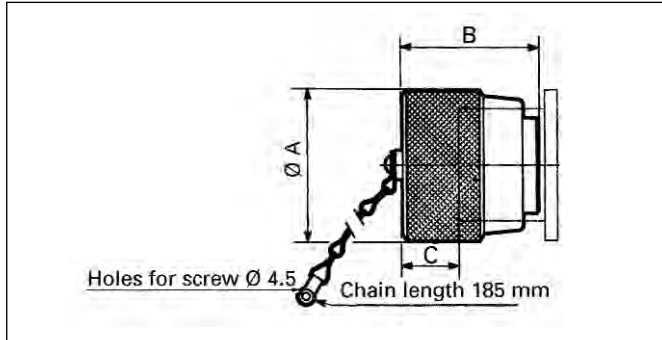
|                       |        |           |    |    |      |      |      |           |    |    |      |      |
|-----------------------|--------|-----------|----|----|------|------|------|-----------|----|----|------|------|
| Ø 1,5<br>small barrel | male   | 8400-309A | 22 | 18 | 0.38 | 0.93 | 3.30 | 63 584    | 30 | 24 | 0.06 | 0.21 |
|                       | female | 8400-621B |    |    |      |      |      |           |    |    |      |      |
| Ø 1,5<br>large barrel | male   | 8400-242A | 16 | 14 | 1.34 | 1.91 | 3.30 | -         | -  |    | -    |      |
|                       | female | 8400-620B |    |    |      |      |      |           |    |    |      |      |
| Ø 2,5                 | male   | 8400-1407 | 12 | 10 | 3.18 | 5.30 | 5.10 | 8400-1665 | 14 |    | 1.91 |      |
|                       | female | 8400-1405 |    |    |      |      |      |           |    |    |      |      |

# 840 Series



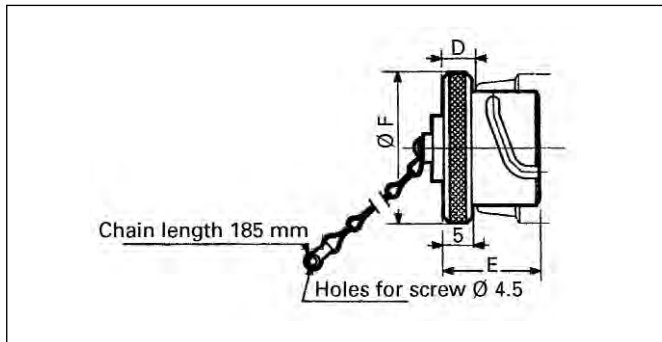
## Accessories and tooling

### Caps for receptacle



| shells | caps for receptacle | caps for plug |
|--------|---------------------|---------------|
| 1      | 8400-11             | 8400-21       |
| 2      | 8400-12             | 8400-22       |
| 3      | 8400-13             | 8400-23       |
| 4      | 8400-14             | 8400-24       |
| 5      | 8400-15             | 8400-25       |
| 6      | 8400-16             | 8400-26       |

### Cap for plug



| shells | 1            | 2             | 3            | 4            | 5             | 6             |
|--------|--------------|---------------|--------------|--------------|---------------|---------------|
| dim.   |              |               |              |              |               |               |
| A      | 22.50<br>.89 | 26.50<br>1.04 | 33<br>1.30   | 39<br>1.54   | 51<br>2.01    | 65<br>2.56    |
| B      | 24.40<br>.96 | 24.30<br>.96  | 24.80<br>.98 | 24.80<br>.98 | 27.20<br>1.07 | 28.70<br>1.13 |
| C      | 10.20<br>.40 | 10.20<br>.40  | 10.30<br>.41 | 10.30<br>.41 | 13.80<br>.54  | 14.30<br>.56  |
| D      | 5.80<br>.23  | 5.80<br>.23   | 5.90<br>.23  | 5.90<br>.23  | 5.90<br>.23   | 5.90<br>.23   |
| E      | 17<br>.67    | 17<br>.67     | 18<br>.71    | 18<br>.71    | 18<br>.71     | 18<br>.71     |
| F      | 22.50<br>.89 | 26.50<br>1.04 | 33<br>1.30   | 39<br>1.54   | 49.80<br>1.96 | 64.50<br>2.54 |

### Gasket for receptacle type 1

| shells       | 1        | 2        | 3        | 4         | 5         | 6         |
|--------------|----------|----------|----------|-----------|-----------|-----------|
| Part numbers | 8400-943 | 8400-944 | 8400-945 | 8400-2004 | 8400-2005 | 8400-1564 |

## Crimping

| Contacts<br>Ø         | Plier                     | Locator           |                         |
|-----------------------|---------------------------|-------------------|-------------------------|
|                       |                           | shells<br>5 and 6 | shells<br>1, 2, 3 and 4 |
| Ø 1                   | MS 3191-1<br>SOURIAU 8465 | MS 3191-20A       | MS 3191-20A             |
| Ø 1,5<br>small barrel | MS 3191-1<br>SOURIAU 8465 | 8400-1608         | 8400-1607               |
| Ø 1,5<br>large barrel | MS 3191-1<br>SOURIAU 8465 | 8400-1609         | MS3191-16A              |
| Ø 2,5                 | MS 3191-1<br>SOURIAU 8465 | 8400-1721         | 8400-1610               |
| Ø 3,5                 | 8459                      | 8459-130          | 8459-130                |
| Ø 5                   | 8459                      | 8459-129          | 8459-129                |
| Ø 10                  | 8459                      | 8459-168          | 8459-168                |

Ref : 8465



Ref : 8459



# 840 Series



## Insertion tools

| Contacts<br>Ø         | Shells<br>5 and 6                        | Shells<br>1, 2, 3 and 4 |
|-----------------------|------------------------------------------|-------------------------|
| Ø 1                   | 8400-2071                                | 8500-93 B               |
| Ø 1,5<br>small barrel | 8400-482 A                               |                         |
| Ø 1,5<br>large barrel | 8400-482 A                               |                         |
| Ø 2,5                 | 8400-482 A                               |                         |
| Ø 3,5                 | 8400-482 A                               |                         |
| Ø 5                   | 8400-2129                                |                         |
| Ø 10                  | To insert contact :<br>push in with wire |                         |

Ref. 8400-2071



Ref. 8400-482 A



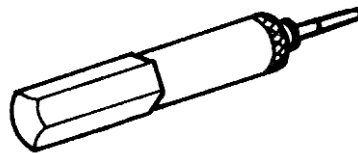
Ref. 8500-93 A



## Extraction tools

| Contacts<br>Ø         | Male<br>contacts  | Female<br>contacts |
|-----------------------|-------------------|--------------------|
| Ø 1                   | 8500-31           | 8500-31            |
| Ø 1,5<br>small barrel | 8400-448          | 8400-446           |
| Ø 1,5<br>large barrel | 8400-448          | 8400-446           |
| Ø 2,5                 | 8400-448          | 8400-322           |
| Ø 3,5                 | 8400-448          | 8400-322           |
| Ø 5                   | 8400-448          | 8400-980 A         |
| Ø 10                  | manual extraction |                    |

Ref. 8500-31



Ref. 8400-448



Ref. 8400-446



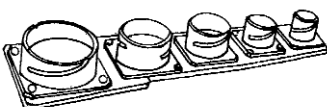
Ref. 8400-322  
Ref. 8400-980 A



Note : for Ø 1 contact extraction from shell sizes 5 and 6 use tool part number 8310-31

## Tightening support

Ref. 8400-52



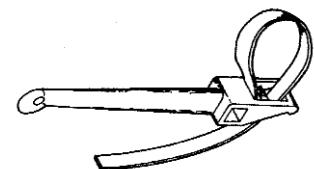
## Backshell spanner

Ref. 8400-447



## Strap clamp

Ref. 8498-04





# 845 Series



## Applications

For all purposes in severe mechanical environment.  
Power applications up to 200 A.

## Standards

NFL 54120  
GAM/T1 list



## Description

- Shells in steel
- Plating : yellow cadmium bichromate or olive green cadmium
- Wide choice of contacts and contact layouts
- Environmental or sealed versions
- Bayonet coupling

## Characteristics

### Mechanical

- Endurance : 500 matings
- Shock : NFC 20616 level 50A
- Vibration : NFC 20616 level 55/10
- Contact retention (min) :
 

|             |              |
|-------------|--------------|
| Ø 1 : 50N   | Ø 3.5 : 100N |
| Ø 1.5 : 70N | Ø 5 : 150N   |
| Ø 2.5 : 80N | Ø 10 : 200N  |

 (Ø in mm)

### Electrical

- Maximum contact current rating :
 

|             |             |
|-------------|-------------|
| Ø 1 : 7.5A  | Ø 3.5 : 40A |
| Ø 1.5 : 11A | Ø 5 : 60A   |
| Ø 2.5 : 25A | Ø 10 : 200A |
- Test voltage : 2800 Vrms/50Hz  
(except 1mm Ø contact : 1500 Vrms)
- Insulation resistance :  
between contacts and earth at normal ambient temperature :  $\geq 5000 \text{ M}\Omega$
- Contact resistance :
 

|                |                 |
|----------------|-----------------|
| Ø 1 : 3 mΩ     | Ø 3.5 : 0.35 mΩ |
| Ø 1.5 : 1.5 mΩ | Ø 5 : 0.25 mΩ   |
| Ø 2.5 : 0.6 mΩ | Ø 10 : 0.08 mΩ  |

### Environmental

- Temperature range : -40°C to +85°C  
(+125°C peak)
- Humidity : to NFC 20603 for 56 days
- Salt spray : to NFC 20603 for 96 hours
- Fluid sealing :
  - immersed :  
4 meters for 10 hours (standard version)  
6 meters for 24 hours (sealed version)
  - water jet :  
impact pressure 1 kg/cm<sup>2</sup> for 15 minutes

## Without grommet seal

### Ordering information

| basic series    |                                                                                                                                                                                                                                                                                                                                                                                                                | 845 | -21 | -8 | 3 | 12 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|----|---|----|
| contact layouts | see table next page                                                                                                                                                                                                                                                                                                                                                                                            |     |     |    |   |    |
| shell style     | 1- square flange receptacle<br>8- plug<br>5- in-line receptacle                                                                                                                                                                                                                                                                                                                                                |     |     |    |   |    |
| contact type    | 3 - pin, solder<br>7- socket, solder<br>1- pin, crimp<br>5 - socket, crimp                                                                                                                                                                                                                                                                                                                                     |     |     |    |   |    |
| cable fittings  | 00 - connector without fitting*<br>15- backnut (corresponding to contact arrangement)<br>17- straight fitting with cable clamp (supplied with a grommet seal)<br>12- straight fitting for metal solder sleeve or heat shrink sleeving<br>14- elbow fitting for metal solder sleeve or heat shrink sleeving<br>36- elbow fitting with cable (supplied with a grommet seal corresponding to contact arrangement) |     |     |    |   |    |
| special types   | 38- conduit tube fitting, plain<br>41- conduit tube fitting, braid                                                                                                                                                                                                                                                                                                                                             |     |     |    |   |    |

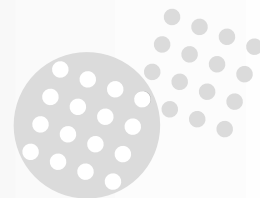
\* A connector may be ordered in this condition but cannot be utilised without specifying separately

example : connector 845-21-83-00  
fitting 845-20-00-12

Note : Insulators and contacts are packed separately from connectors. Correct location of the insulator is made during assembly.

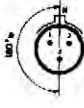
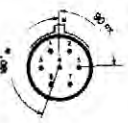
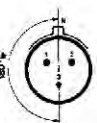
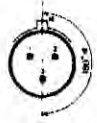
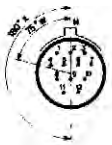
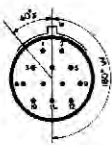
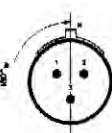
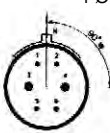
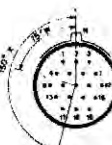
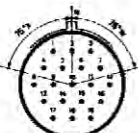
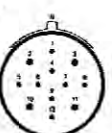
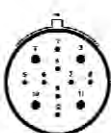
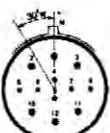
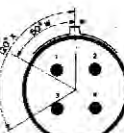
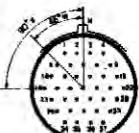
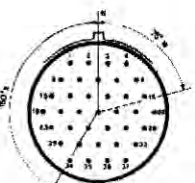
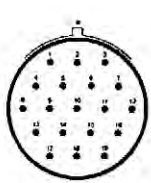
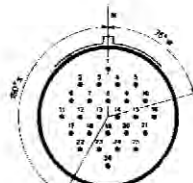
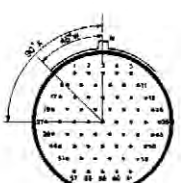
Style 1 receptacles are supplied complete with panel seals. The grommet seals provided with style 17 and 36 cable clamp fittings are not intended to be bonded to connector insulators.

# 845 Series



## Contact layouts and polarizations

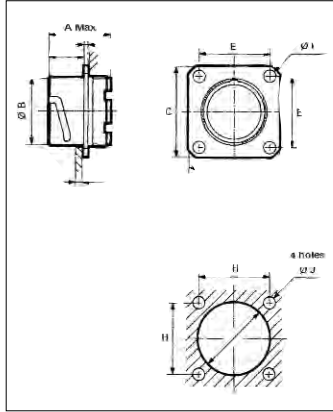
Viewed from front face of male insulator

|            |                                                                                                 |                                                                                                           |                                                                                                           |                                                                                                           |                                                                                               |                                                                                                              |                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| shell<br>1 | 3 Ø 1,5<br>    | 2 Ø 1,5<br>              | 1 Ø 3,5<br>              | 7 Ø 1<br>                |                                                                                               |                                                                                                              |                                                                                                 |
|            | 11                                                                                              | 12                                                                                                        | 13                                                                                                        | 19                                                                                                        |                                                                                               |                                                                                                              |                                                                                                 |
| shell<br>2 | 7 Ø 1,5<br>    | 1 Ø 1,5<br>2 Ø 2,5<br>   | 3 Ø 2,5<br>              | 4 Ø 2,5<br>              | 3 Ø 1,5<br> | 12 Ø 1<br>                |                                                                                                 |
|            | 21                                                                                              | 22                                                                                                        | 23                                                                                                        | 24                                                                                                        | 26                                                                                            | 29                                                                                                           |                                                                                                 |
| shell<br>3 | 12 Ø 1,5<br>  | 3 Ø 3,5<br>             | 4 Ø 3,5<br>             | 2 Ø 3,5<br>4 Ø 1,5<br>  | 1 Ø 10<br> | 19 Ø 1<br>               |                                                                                                 |
|            | 31                                                                                              | 32                                                                                                        | 33                                                                                                        | 34                                                                                                        | 35                                                                                            | 39                                                                                                           |                                                                                                 |
| shell<br>4 | 19 Ø 1,5<br> | 8 Ø 1,5<br>4 Ø 1,5<br> | 4 Ø 1,5<br>8 Ø 1,5<br> | 6 Ø 2,5<br>6 Ø 1,5<br> | 4 Ø 5<br> | 2 Ø 2,5<br>12 Ø 1,5<br> | 37 Ø 1<br> |
|            | 41                                                                                              | 42                                                                                                        | 43                                                                                                        | 44                                                                                                        | 45                                                                                            | 46                                                                                                           | 49                                                                                              |
| shell<br>5 | 37 Ø 1,5<br> | 19 Ø 2,5<br>           | 26 Ø 1,5<br>           | 61 Ø 1<br>           |                                                                                               |                                                                                                              |                                                                                                 |
|            | 51                                                                                              | 52                                                                                                        | 53                                                                                                        | 54                                                                                                        |                                                                                               |                                                                                                              |                                                                                                 |

# 845 Series

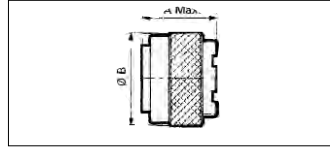


## Shell styles Receptacle type 1



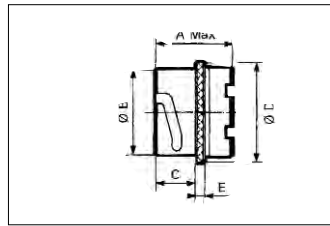
| shell size<br>dim | 1              | 2              | 3              | 4              | 5              |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| A                 | 28.20<br>.1110 | 28.20<br>.1110 | 28.60<br>.1126 | 28.60<br>.1126 | 38.00<br>.1496 |
| B                 | 16.00<br>.630  | 20.00<br>.787  | 26.00<br>1.024 | 31.00<br>1.220 | 43.00<br>1.693 |
| C                 | 15.50<br>.610  | 15.50<br>.610  | 16.50<br>.650  | 16.50<br>.650  | 16.50<br>.650  |
| D                 | 24.00<br>.945  | 27.00<br>1.063 | 31.00<br>1.220 | 42.00<br>1.654 | 54.00<br>2.126 |
| E                 | 18.00<br>.709  | 21.00<br>.827  | 25.00<br>.984  | 33.00<br>1.299 | 43.00<br>1.693 |
| F                 | 3.20<br>.126   | 3.20<br>.126   | 3.20<br>.126   | 5.50<br>.217   | 5.50<br>.217   |
| G                 | 19.00<br>.748  | 23.00<br>.906  | 28.00<br>1.102 | 34.00<br>1.339 | 46.00<br>1.811 |
| H                 | 18.00<br>.709  | 21.00<br>.827  | 25.00<br>.984  | 33.00<br>1.299 | 43.00<br>1.693 |
| J                 | 3.20<br>.126   | 3.20<br>.126   | 3.20<br>.126   | 5.50<br>.217   | 5.50<br>.217   |

## Plug type 8



| shell size<br>dim | 1              | 2              | 3              | 4              | 5              |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| A                 | 32.20<br>1.268 | 32.20<br>1.268 | 32.20<br>1.268 | 32.20<br>1.268 | 41.60<br>1.638 |
| B                 | 22.50<br>.886  | 26.50<br>1.043 | 33.00<br>1.299 | 39.00<br>1.535 | 51.00<br>2.008 |

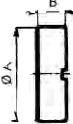
## In-line receptacle type 5



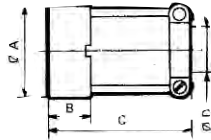
| shell size<br>dim | 1              | 2              | 3              | 4              | 5              |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| A                 | 28.00<br>1.102 | 28.00<br>1.102 | 28.40<br>1.118 | 28.40<br>1.118 | 37.80<br>1.488 |
| B                 | 16.00<br>.630  | 20.00<br>.787  | 26.00<br>1.024 | 31.00<br>1.220 | 43.00<br>1.693 |
| C                 | 14.00<br>.551  | 14.00<br>.551  | 14.80<br>.583  | 14.80<br>.583  | 14.80<br>.583  |
| D                 | 21.00<br>.827  | 25.00<br>.984  | 31.00<br>1.220 | 36.00<br>1.417 | 48.00<br>1.890 |
| E                 | 3.50<br>.138   | 3.50<br>.138   | 3.50<br>.138   | 3.50<br>.138   | 6.00<br>.236   |

## Backfitting

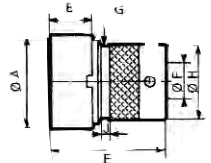
### backnut type 15



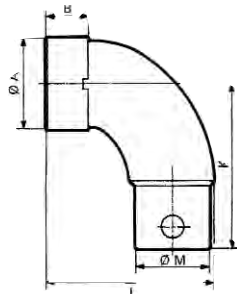
### straight fitting with cable clamp type 17



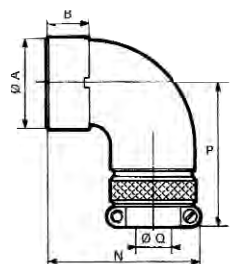
### straight fitting for metal solder sleeve or heat shrink sleeving type 12



### elbow fitting for metal solder sleeve or heat shrink sleeving type 14

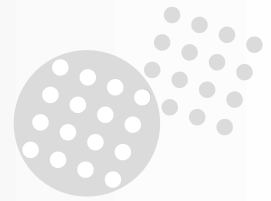


### elbow fitting with cable clamp type 36

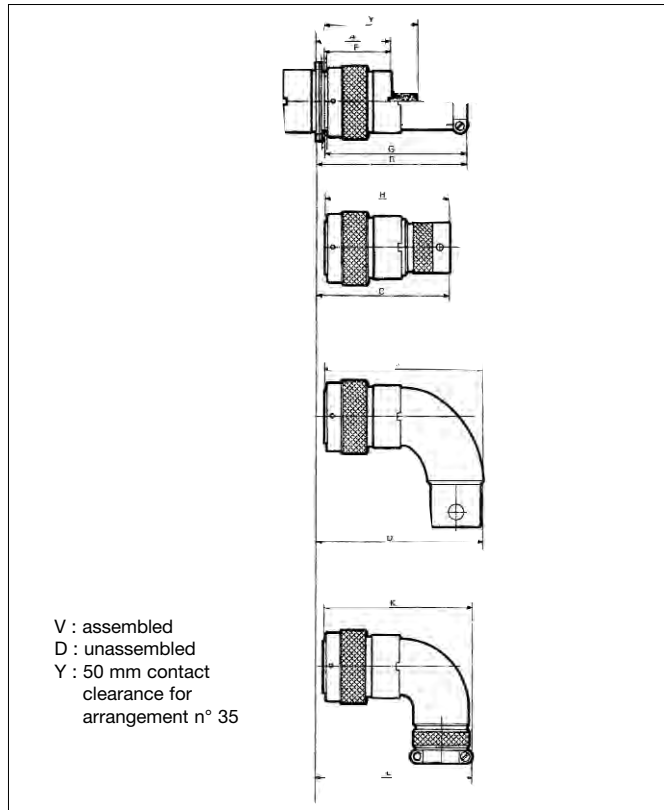


| type | shells size<br>dim | 1              | 2              | 3              | 4              | 5              |
|------|--------------------|----------------|----------------|----------------|----------------|----------------|
| 15   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 44.80<br>1.764 |
|      | B                  | 12.00<br>.472  | 10.10<br>.398  | 12.00<br>.472  | 10.10<br>.398  | 16.00<br>.630  |
| 17   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 |
|      | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  |
|      | C                  | 34.45<br>1.356 | 39.45<br>1.553 | 46.45<br>1.829 | 51.45<br>2.026 | 52.80<br>2.079 |
|      | D                  | 11.00<br>.433  | 13.00<br>.512  | 17.00<br>.669  | 20.50<br>.807  | 30.00<br>1.181 |
| 12   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 |
|      | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  |
|      | E                  | 36.00<br>1.417 | 36.00<br>1.417 | 38.00<br>1.496 | 36.50<br>1.437 | 47.60<br>1.874 |
|      | F                  | 12.00<br>.472  | 15.50<br>.610  | 21.50<br>.846  | 25.20<br>.992  | 37.00<br>1.457 |
|      | G                  | 12.20<br>.480  | 16.00<br>.630  | 21.20<br>.835  | 27.00<br>1.063 | 38.00<br>1.496 |
|      | H                  | 13.70<br>.539  | 17.50<br>.689  | 23.50<br>.925  | 27.00<br>1.063 | 40.00<br>1.575 |
|      | J                  | 2.50<br>.098   | 2.50<br>.098   | 2.50<br>.098   | 2.50<br>.098   | 2.50<br>.098   |
| 14   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 |
|      | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  |
|      | K                  | 45.60<br>1.795 | 45.60<br>1.795 | 60.10<br>2.366 | 60.10<br>2.366 | 75.10<br>2.957 |
|      | L                  | 43.15<br>1.699 | 40.15<br>1.581 | 61.65<br>2.427 | 59.65<br>2.348 | 70.55<br>2.778 |
|      | M                  | 13.70<br>.539  | 17.50<br>.689  | 23.50<br>.925  | 27.00<br>1.063 | 40.00<br>1.575 |
| 36   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 |
|      | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  |
|      | N                  | 43.55<br>1.715 | 46.85<br>1.844 | 49.75<br>1.959 | 54.95<br>2.163 | 63.70<br>2.508 |
|      | P                  | 37.50<br>1.476 | 42.50<br>1.673 | 47.50<br>1.870 | 53.50<br>2.106 | 72.30<br>2.846 |
|      | Q                  | 11.00<br>.433  | 13.00<br>.512  | 17.00<br>.669  | 20.50<br>.807  | 30.00<br>1.181 |

# 845 Series

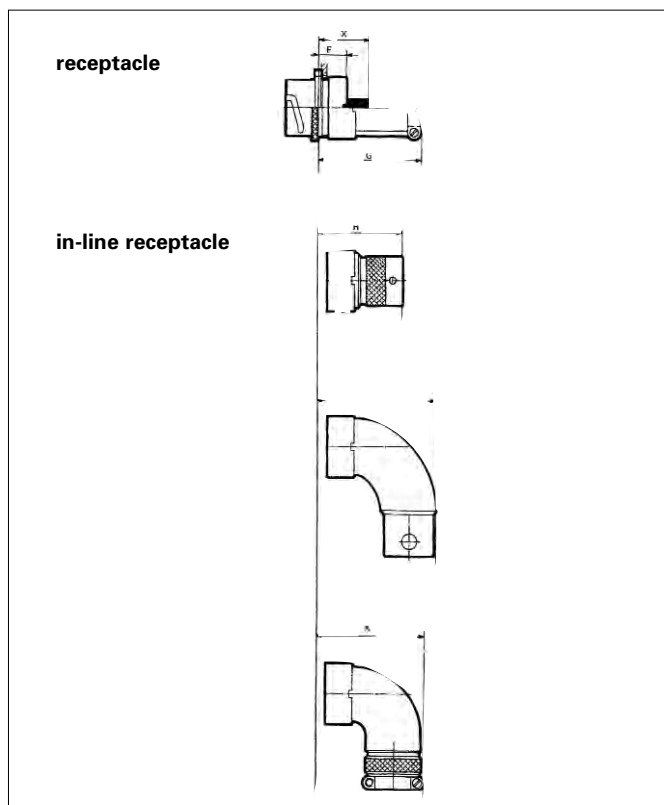


## Plug/backfitting assemblies



| type | dim | shells size | 1              | 2              | 3               | 4               | 5               |
|------|-----|-------------|----------------|----------------|-----------------|-----------------|-----------------|
| 15   | A   | V           | 42.50<br>1.673 | 42.00<br>1.654 | 43.00<br>1.693  | 42.50<br>1.673  | 52.00<br>2.047  |
|      |     | D           | 55.50<br>2.185 | 55.50<br>2.185 | 56.50<br>2.224  | 56.50<br>2.224  | 63.00<br>2.480  |
|      | F   |             | 37.70<br>1.484 | 37.60<br>1.480 | 37.70<br>1.484  | 37.60<br>1.480  | 44.10<br>1.736  |
| 17   | B   | V           | 64.00<br>2.520 | 69.00<br>2.717 | 76.50<br>3.012  | 81.50<br>3.209  | 93.00<br>3.661  |
|      |     | D           | 77.50<br>3.051 | 82.50<br>3.248 | 90.50<br>3.563  | 95.50<br>3.760  | 107.00<br>4.213 |
|      | G   |             | 59.70<br>2.350 | 64.70<br>2.547 | 71.70<br>2.823  | 76.70<br>3.020  | 87.90<br>3.461  |
| 12   | C   | V           | 64.00<br>2.520 | 64.00<br>2.520 | 66.00<br>2.598  | 64.50<br>2.539  | 75.50<br>2.972  |
|      |     | D           | 84.50<br>3.327 | 81.50<br>3.209 | 105.00<br>4.134 | 102.00<br>4.016 | 122.50<br>4.823 |
|      | H   |             | 59.50<br>2.343 | 59.50<br>2.343 | 61.50<br>2.421  | 60.00<br>2.362  | 80.50<br>3.169  |
| 14   | D   | V           | 71.00<br>2.795 | 68.00<br>2.677 | 91.00<br>3.583  | 88.00<br>3.465  | 108.50<br>4.272 |
|      |     | D           | 84.50<br>3.327 | 81.50<br>3.209 | 105.00<br>4.134 | 102.00<br>4.016 | 122.50<br>4.823 |
|      | J   |             | 66.50<br>2.618 | 63.70<br>2.508 | 86.20<br>3.394  | 83.20<br>3.276  | 103.50<br>4.075 |
| 36   | E   | V           | 73.00<br>2.874 | 76.50<br>3.012 | 80.00<br>3.150  | 85.00<br>3.346  | 104.00<br>4.094 |
|      |     | D           | 86.50<br>3.406 | 90.00<br>3.543 | 93.50<br>3.681  | 99.00<br>3.898  | 118.00<br>4.646 |
|      | K   |             | 68.60<br>2.701 | 71.90<br>2.831 | 74.80<br>2.945  | 80.10<br>3.154  | 99.00<br>3.898  |

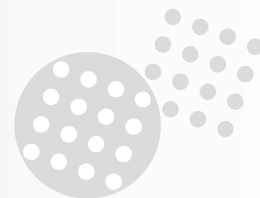
## Receptacle and in-line receptacle backfitting assemblies



| type | dim | shells size | 1              | 2              | 3              | 4              | 5              |
|------|-----|-------------|----------------|----------------|----------------|----------------|----------------|
| 15   | F   |             | 16.00<br>.630  | 16.00<br>.630  | 17.00<br>.669  | 17.00<br>.669  | 25.00<br>.984  |
| 17   | G   |             | 38.50<br>1.516 | 43.50<br>1.713 | 50.00<br>1.969 | 55.00<br>2.165 | 66.00<br>2.598 |
| 12   | H   |             | 38.00<br>1.496 | 38.00<br>1.496 | 39.50<br>1.555 | 38.00<br>1.496 | 58.50<br>2.303 |
| 14   | J   |             | 45.50<br>1.791 | 42.50<br>1.673 | 64.50<br>2.539 | 61.50<br>2.421 | 81.50<br>3.209 |
| 36   | K   |             | 47.50<br>1.870 | 50.50<br>1.988 | 53.00<br>2.087 | 58.00<br>2.283 | 77.00<br>3.031 |

X : 28 mm contact clearance  
for arrangement n° 35

# 845 Series



## With grommet seal

### Ordering information

|                         |                                                                                                                                                                                                                                                                                                                                 |            |           |          |           |             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|----------|-----------|-------------|
| <b>basic series</b>     | <b>845</b>                                                                                                                                                                                                                                                                                                                      | <b>-21</b> | <b>-8</b> | <b>3</b> | <b>22</b> | <b>-001</b> |
| <b>contacts layouts</b> | - see table below                                                                                                                                                                                                                                                                                                               |            |           |          |           |             |
| <b>shell style</b>      | 1 - square flange receptacle<br>8 - plug<br>5 - in-line receptacle                                                                                                                                                                                                                                                              |            |           |          |           |             |
| <b>contact type</b>     | 3 - pin, solder<br>7 - socket, solder<br>1 - pin, crimp<br>5 - socket, crimp                                                                                                                                                                                                                                                    |            |           |          |           |             |
| <b>cable fittings</b>   | 00 - connector without fitting*<br>25 - back nut<br>26 - fitting for heat shrink sleeving<br>22 - straight fitting with cable clamp<br>27 - short straight fitting with cable clamp<br>21 - straight fitting with cable clamp and gland<br>23 - elbow fitting with cable clamp and gland<br>24 - elbow fitting with cable clamp |            |           |          |           |             |
| <b>protection codes</b> | 001 - cadmium bichromate<br>003 - cadmium, olive green                                                                                                                                                                                                                                                                          |            |           |          |           |             |

## Contact layouts and polarizations

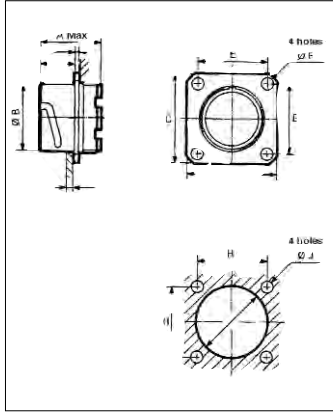
### Viewed from front face of male insulator

|            |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|
| shell<br>1 | <br>11 | <br>12 | <br>13 | <br>19 |        |        |        |
| shell<br>2 | <br>21 | <br>22 | <br>23 | <br>24 | <br>29 |        |        |
| shell<br>3 | <br>31 | <br>32 | <br>33 | <br>34 | <br>35 | <br>39 |        |
| shell<br>4 | <br>41 | <br>42 | <br>43 | <br>44 | <br>45 | <br>46 | <br>49 |
| shell<br>5 | <br>51 | <br>52 | <br>54 |        |        |        |        |
| shell<br>6 | <br>61 | <br>62 | <br>64 |        |        |        |        |

# 845 Series

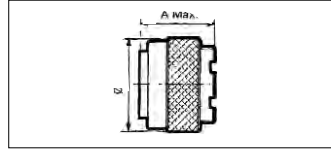


## Shell styles Receptacle type 1



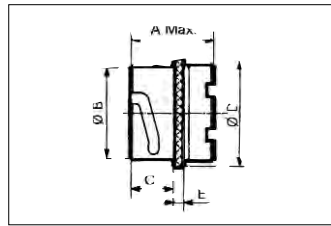
| shell size<br>dim | 1              | 2              | 3              | 4              | 5              | 6              |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A                 | 28.20<br>1.110 | 28.20<br>1.110 | 28.60<br>1.126 | 28.60<br>1.126 | 38.00<br>1.496 | 38.00<br>1.496 |
| B                 | 16.00<br>.630  | 20.00<br>.787  | 26.00<br>1.024 | 31.00<br>1.220 | 43.00<br>1.693 | 57.00<br>2.244 |
| C                 | 15.50<br>.610  | 15.50<br>.610  | 16.50<br>.650  | 16.50<br>.650  | 16.50<br>.650  | 16.50<br>.650  |
| D                 | 24.00<br>.945  | 27.00<br>1.063 | 31.00<br>1.220 | 42.00<br>1.654 | 54.00<br>2.126 | 66.00<br>2.598 |
| E                 | 18.00<br>.709  | 21.00<br>.827  | 25.00<br>.984  | 33.00<br>1.299 | 43.00<br>1.693 | 53.00<br>2.087 |
| F                 | 3.20<br>.126   | 3.20<br>.126   | 3.20<br>.126   | 5.50<br>.217   | 5.50<br>.217   | 5.50<br>.217   |
| G                 | 19.00<br>.748  | 23.00<br>.906  | 28.00<br>1.102 | 34.00<br>1.339 | 46.00<br>1.811 | 60.00<br>2.362 |
| H                 | 18.00<br>.709  | 21.00<br>.827  | 25.00<br>.984  | 33.00<br>1.299 | 43.00<br>1.693 | 53.00<br>2.087 |
| J                 | 3.20<br>.126   | 3.20<br>.126   | 3.20<br>.126   | 5.50<br>.217   | 5.50<br>.217   | 5.50<br>.217   |

## Plug type 8



| shell size<br>dim | 1              | 2              | 3              | 4              | 5              | 6              |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A                 | 32.20<br>1.268 | 32.20<br>1.268 | 32.20<br>1.268 | 32.20<br>1.268 | 41.60<br>1.638 | 41.60<br>1.638 |
| B                 | 22.50<br>.886  | 26.50<br>1.043 | 33.00<br>1.299 | 39.00<br>1.535 | 51.00<br>2.008 | 65.00<br>2.559 |

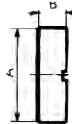
## In-line receptacle type 5



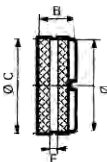
| shell size<br>dim | 1              | 2              | 3              | 4              | 5              | 6              |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| A                 | 28.00<br>1.102 | 28.00<br>1.102 | 28.40<br>1.118 | 28.40<br>1.118 | 37.80<br>1.488 | 37.80<br>1.488 |
| B                 | 16.00<br>.630  | 20.00<br>.787  | 26.00<br>1.024 | 31.00<br>1.220 | 43.00<br>1.693 | 57.00<br>2.244 |
| C                 | 14.00<br>.551  | 14.00<br>.551  | 14.80<br>.583  | 14.80<br>.583  | 14.80<br>.583  | 14.80<br>.583  |
| D                 | 21.00<br>.827  | 25.00<br>.984  | 31.00<br>1.220 | 36.00<br>1.417 | 48.00<br>1.890 | 62.00<br>2.441 |
| E                 | 3.50<br>.138   | 3.50<br>.138   | 3.50<br>.138   | 3.50<br>.138   | 6.00<br>.236   | 6.00<br>.236   |

## Backfitting

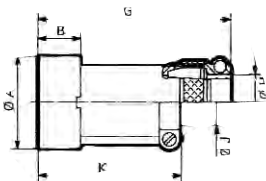
### backnut type 25



### fitting for heat shrink sleeving type 26



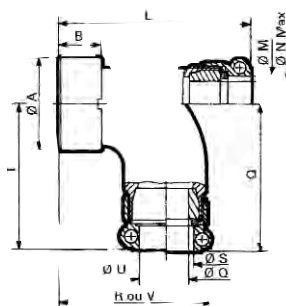
### straight fitting with cable clamp type 22 short straight fitting with cable clamp type 27



### straight fitting with cable clamp type 21

### elbow fitting with cable clamp type 23

### elbow fitting with cable clamp type 24

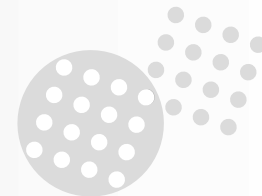


type 23

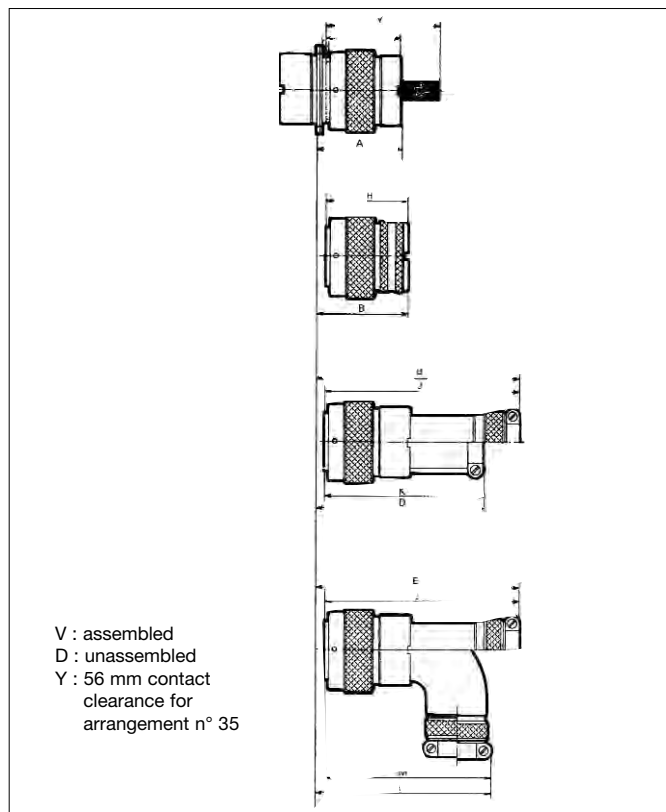
type 24

| type | shells size<br>dim | 1              | 2              | 3              | 4              | 5              | 6               |
|------|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| 25   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 44.80<br>1.764 | 59.50<br>2.343  |
|      | B                  | 12.00<br>.472  | 10.10<br>.398  | 12.00<br>.472  | 10.10<br>.398  | 16.00<br>.630  | 19.80<br>.780   |
| 26   | C                  | 20.80<br>.819  | 23.50<br>.925  | 28.50<br>1.122 | 34.50<br>1.358 | 48.50<br>1.909 | 64.50<br>2.539  |
|      | D                  | 15.00<br>.591  | 13.10<br>.516  | 15.00<br>.591  | 13.10<br>.516  | 19.00<br>.748  | 22.80<br>.898   |
|      | E                  | 18.50<br>.728  | 22.60<br>.890  | 27.60<br>1.087 | 33.50<br>1.319 | 44.50<br>1.752 | 59.50<br>2.343  |
|      | F                  | 3.50<br>.138   | 3.00<br>.118   | 3.00<br>.118   | 3.00<br>.118   | 3.50<br>.138   | 4.00<br>.157    |
| 22   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 | 61.50<br>2.421  |
|      | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  | 20.50<br>.807   |
|      | G                  | 44.90<br>1.768 | 53.90<br>2.122 | 60.90<br>2.398 | 69.90<br>2.752 | 84.30<br>3.319 | 119.00<br>4.685 |
|      | H                  | 11.00<br>.433  | 13.00<br>.512  | 17.00<br>.669  | 20.50<br>.807  | 30.00<br>1.181 | 40.00<br>1.575  |
| 27   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 | 61.50<br>2.421  |
|      | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  | 20.50<br>.807   |
|      | J                  | 11.00<br>.433  | 13.00<br>.512  | 17.00<br>.669  | 20.50<br>.807  | 30.00<br>1.181 | 40.00<br>1.575  |
|      | K                  | 34.40<br>1.354 | 39.40<br>1.551 | 46.40<br>1.827 | 51.40<br>2.024 | 52.80<br>2.079 | 66.80<br>2.630  |
| 21   | A                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 | 61.50<br>2.421  |
|      | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  | 20.50<br>.807   |
|      | L                  | 47.20<br>1.858 | 56.20<br>2.213 | 63.20<br>2.488 | 72.20<br>2.843 | 88.60<br>3.488 | 123.90<br>4.878 |
|      | M                  | 11.00<br>.433  | 13.00<br>.512  | 17.00<br>.669  | 20.50<br>.807  | 30.00<br>1.181 | 40.00<br>1.575  |
|      | N                  | 9.50<br>.374   | 12.50<br>.492  | 16.30<br>.642  | 19.20<br>.756  | 28.50<br>1.122 | 38.00<br>1.496  |
|      | O                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 | 61.50<br>2.421  |
| 23   | B                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  | 20.50<br>.807   |
|      | P                  | 9.50<br>.374   | 12.50<br>.492  | 16.30<br>.642  | 19.20<br>.756  | 28.50<br>1.122 | 38.00<br>1.496  |
|      | Q                  | 39.50<br>1.555 | 44.50<br>1.752 | 49.50<br>1.949 | 57.50<br>2.264 | 73.00<br>2.874 | 103.00<br>4.055 |
|      | R                  | 43.50<br>1.713 | 46.80<br>1.843 | 49.70<br>1.957 | 54.90<br>2.161 | 63.70<br>2.508 | 93.50<br>3.681  |
|      | S                  | 11.00<br>.433  | 13.00<br>.512  | 17.00<br>.669  | 20.50<br>.807  | 30.00<br>1.181 | 40.00<br>1.575  |
|      | T                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 | 61.50<br>2.421  |
|      | U                  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 15.50<br>.610  | 19.50<br>.768  | 20.50<br>.807   |
| 24   | V                  | 37.50<br>1.476 | 42.50<br>1.673 | 47.50<br>1.870 | 55.50<br>2.185 | 69.00<br>2.717 | 99.00<br>3.898  |
|      | W                  | 11.00<br>.433  | 13.00<br>.512  | 17.00<br>.669  | 20.50<br>.807  | 30.00<br>1.181 | 40.00<br>1.575  |
|      | X                  | 43.50<br>1.713 | 46.80<br>1.843 | 49.70<br>1.957 | 54.90<br>2.161 | 63.70<br>2.508 | 93.50<br>3.681  |
|      | Y                  | 18.50<br>.728  | 22.50<br>.886  | 27.50<br>1.083 | 33.50<br>1.319 | 45.00<br>1.772 | 61.50<br>2.421  |

# 845 Series

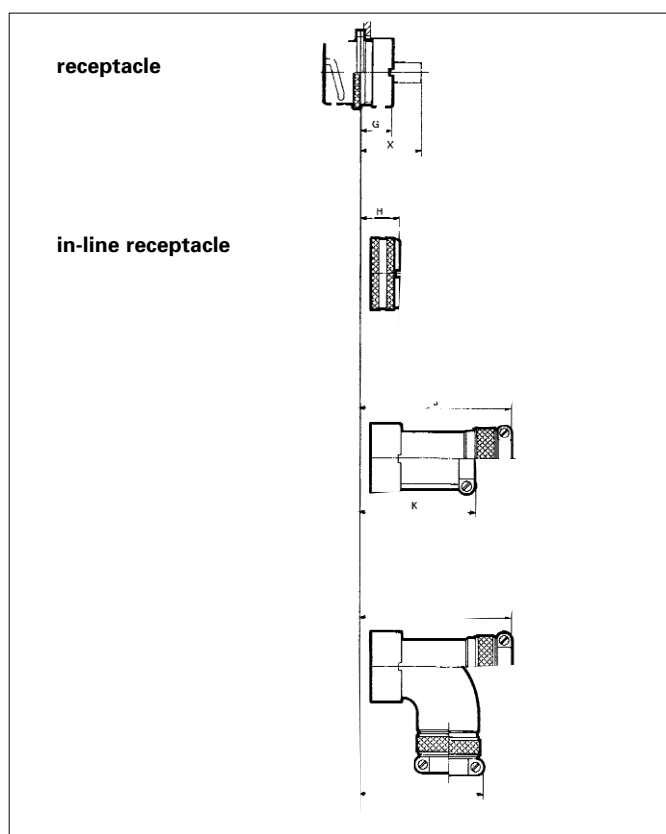


## Plug/backfitting assemblies



| type  | shells size<br>dim | 1 2 3 4 5 6      |                |                 |                 |                 |                 |
|-------|--------------------|------------------|----------------|-----------------|-----------------|-----------------|-----------------|
|       |                    | 1                | 2              | 3               | 4               | 5               | 6               |
| 25    | A                  | V 42.50<br>1.673 | 42.50<br>1.673 | 43.00<br>1.693  | 44.00<br>1.732  | 52.50<br>2.067  | 55.00<br>2.165  |
|       |                    | D 56.00<br>2.205 | 56.00<br>2.205 | 57.00<br>2.244  | 58.00<br>2.283  | 66.50<br>2.618  | 69.00<br>2.717  |
|       | G                  | 38.50<br>1.516   | 38.00<br>1.496 | 38.50<br>1.516  | 39.00<br>1.535  | 47.50<br>1.870  | 50.50<br>1.988  |
| 26    | B                  | V 45.90<br>1.807 | 45.50<br>1.791 | 46.00<br>1.811  | 53.00<br>2.087  | 55.50<br>2.185  | 58.00<br>2.283  |
|       |                    | D 59.00<br>2.323 | 59.00<br>2.323 | 60.00<br>2.362  | 61.00<br>2.402  | 69.50<br>2.736  | 72.00<br>2.835  |
|       | H                  | 41.50<br>1.634   | 41.00<br>1.614 | 41.50<br>1.634  | 42.00<br>1.654  | 50.50<br>1.988  | 53.50<br>2.106  |
| 22    | C                  | V 74.50<br>2.933 | 83.50<br>3.287 | 91.00<br>3.583  | 100.00<br>3.937 | 124.50<br>4.902 | 155.00<br>6.102 |
|       |                    | D 88.00<br>3.465 | 96.50<br>3.799 | 105.00<br>4.134 | 114.00<br>4.488 | 138.50<br>5.453 | 169.00<br>6.654 |
|       | J                  | 70.50<br>2.776   | 78.50<br>3.091 | 86.50<br>3.406  | 95.50<br>3.760  | 119.50<br>4.705 | 150.00<br>5.906 |
| 27    | D                  | V 64.00<br>2.520 | 69.00<br>2.717 | 76.50<br>3.012  | 81.50<br>3.209  | 93.00<br>3.661  | 103.00<br>4.055 |
|       |                    | D 77.50<br>3.051 | 82.50<br>3.248 | 90.50<br>3.563  | 95.50<br>3.760  | 107.00<br>4.213 | 117.00<br>4.606 |
|       | K                  | 60.00<br>2.362   | 65.00<br>2.559 | 72.00<br>2.835  | 77.00<br>3.031  | 88.00<br>3.465  | 98.00<br>3.858  |
| 21    | E                  | V 77.00<br>3.031 | 86.00<br>3.386 | 93.50<br>3.681  | 102.50<br>4.035 | 128.50<br>5.059 | 160.00<br>6.299 |
|       |                    | D 90.50<br>3.563 | 99.50<br>3.917 | 107.50<br>4.232 | 116.50<br>4.587 | 142.50<br>5.610 | 173.50<br>6.831 |
|       | L                  | 72.50<br>2.854   | 81.50<br>3.209 | 88.50<br>3.484  | 97.50<br>3.839  | 124.00<br>4.882 | 155.00<br>6.102 |
| 23-24 | F                  | V 73.00<br>2.874 | 76.50<br>3.012 | 80.00<br>3.150  | 85.00<br>3.346  | 104.00<br>4.094 | 129.50<br>5.098 |
|       |                    | D 86.50<br>3.406 | 90.00<br>3.543 | 93.50<br>3.681  | 99.00<br>3.898  | 118.00<br>4.646 | 144.50<br>5.689 |
|       | M                  | 69.00<br>2.717   | 72.00<br>2.835 | 75.00<br>2.953  | 80.50<br>3.169  | 99.00<br>3.898  | 125.50<br>4.941 |

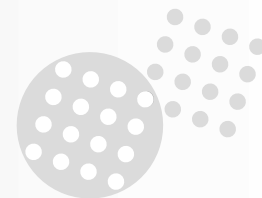
## Receptacle and in-line receptacle backfitting assemblies



| type    | shells size<br>dim | 1 2 3 4 5 6    |                |                |                |                 |                 |
|---------|--------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
|         |                    | 1              | 2              | 3              | 4              | 5               | 6               |
| 25      | G                  | 16.00<br>.630  | 16.00<br>.630  | 17.00<br>.669  | 17.00<br>.669  | 25.00<br>.984   | 28.00<br>1.102  |
| 26      | H                  | 19.50<br>.768  | 19.50<br>.768  | 19.00<br>.748  | 20.00<br>.787  | 28.50<br>1.122  | 31.50<br>1.240  |
| 22      | J                  | 48.50<br>1.909 | 57.50<br>2.264 | 64.00<br>2.520 | 73.00<br>2.874 | 97.50<br>3.839  | 128.00<br>5.039 |
| 27      | K                  | 38.50<br>1.516 | 43.50<br>1.713 | 49.50<br>1.949 | 54.50<br>2.146 | 66.00<br>2.598  | 76.00<br>2.992  |
| 21      | L                  | 51.00<br>2.008 | 60.00<br>2.362 | 66.50<br>2.618 | 75.50<br>2.972 | 102.00<br>4.016 | 133.00<br>5.236 |
| 23 - 24 | M                  | 47.50<br>1.870 | 50.50<br>1.988 | 53.00<br>2.087 | 58.00<br>2.283 | 77.00<br>3.031  | 102.50<br>4.035 |

X : 34 mm contact clearance  
for arrangement n° 35

# 845 Series

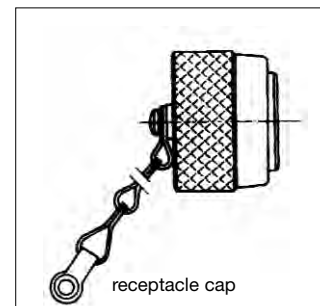
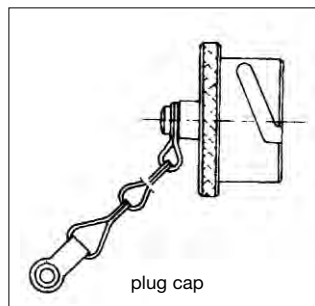


## Accessories

### Protective caps

### Ordering information

|                               |                                                       |            |            |           |             |
|-------------------------------|-------------------------------------------------------|------------|------------|-----------|-------------|
| <b>basic series</b>           | <b>845</b>                                            | <b>-10</b> | <b>-00</b> | <b>31</b> | <b>-001</b> |
| <b>shell size</b>             | 10 - 20 - 30 - 40 - 50<br>(excluding size 6)          |            |            |           |             |
| <b>standard code</b>          |                                                       |            |            |           |             |
| <b>caps</b>                   | 31 - for receptacles<br>32 - for plugs                |            |            |           |             |
| <b>protection finish code</b> | 001 - cadmium bichromate<br>003 - cadmium olive green |            |            |           |             |



## Sealing gaskets for square flange receptacle

| shell size<br>part number | 8400-943 | 8400-944 | 8400-945 | 8400-946 | 8400-1180 | 8400-1564 |
|---------------------------|----------|----------|----------|----------|-----------|-----------|
|---------------------------|----------|----------|----------|----------|-----------|-----------|

## Crimp contacts

| diameter<br>(mm)     | female     | male       | wire size<br>min/Max (mm <sup>2</sup> ) | insulation Ø<br>min/Max (mm <sup>2</sup> ) | reducing<br>sleeves | wire size with reducing<br>sleeve min/Max (mm <sup>2</sup> ) |
|----------------------|------------|------------|-----------------------------------------|--------------------------------------------|---------------------|--------------------------------------------------------------|
| 1                    | 8500-1758  | 8201-326   | 0.21/0.93                               | 1.55/2.40                                  | 8500-781            | 0.06/0.21                                                    |
| 1.5                  | 8400-618 A | 8400-144 A | 1.34/1.91                               | 1.90/3.30                                  |                     |                                                              |
| 1.5 (shells 5 and 6) | 8400-620 A | 8400-242 A | 1.34/1.91                               | 1.90/3.30                                  |                     |                                                              |
| 2.5                  | 8400-147 A | 8400-270 A | 3.18/5.30                               | 3.50/5.10                                  | 8400-1665           | 1.91                                                         |
| 2.5 (shells 5 and 6) | 8400-1405  | 8400-1407  | 3.18/5.30                               | 3.50/5.10                                  | 8400-1665           | 1.91                                                         |
| 3.5                  | 8400-148 A | 8400-352 A | 8.98                                    | 5.50/6.40                                  | 8400-1029           | 3.18/5.30                                                    |
| 5                    | 8400-834   | 8400-833   | 13.40                                   | 7.10/8.00                                  | 8400-2315           | 8.98                                                         |
| 10 (arrangement 35)  | 8400-1183  | 8400-1181  | 67.20                                   | 14.40/15.50                                | 8400-1779           | 41.80                                                        |
| 10 (arrangement 61)  | 8400-1801  | 8400-1799  | 16.00                                   | 8.50                                       |                     |                                                              |
| 10 (arrangement 62)  | 8400-1183  | 8400-1181  | 67.20                                   | 14.40/15.50                                | 8400-1779           | 41.80                                                        |

## Solders contacts

| diameter<br>(mm)    | female     | male      | Max wire size<br>(mm <sup>2</sup> ) | insulation Ø<br>min/Max (mm <sup>2</sup> ) |
|---------------------|------------|-----------|-------------------------------------|--------------------------------------------|
| 1.5                 | 8400-622 A | 8400-474  | 1.91                                | 1.90/3.30                                  |
| 1.5 (shell 5 and 6) | 8400-623 A | 8400-475  | 1.91                                | 1.90/3.30                                  |
| 2.5                 | 8300-236   | 8300-235  | 5.30                                | 3.50/5.10                                  |
| 2.5 (shell 5)       | 8473-119   | 8473-121  | 5.30                                | 3.50/5.10                                  |
| 2.5 (shell 6)       | 8473-119   | 8473-121  | 5.30                                | 3.50/5.10                                  |
| 3.5                 | 8300-239   | 8300-238  | 8.98                                | 5.50/6.40                                  |
| 5                   | 8400-979   | 8400-961  | 13.40                               | 7.10/8.00                                  |
| 10 (arrangement 35) | 8400-1014  | 8400-986  | 67.20                               | 14.40/15.50                                |
| 10 (arrangement 61) | 8400-1962  | 8400-1960 | 16.00                               | 8.50                                       |
| 10 (arrangement 62) | 8400-1014  | 8400-986  | 67.20                               | 14.40/15.50                                |

# 845 Series



## Tooling

### Crimping tools (for both versions)

| diameter of contact | plier                     | locator      |              |
|---------------------|---------------------------|--------------|--------------|
|                     |                           | shell size 5 | others       |
| 1                   | MS 3191-1<br>SOURIAU 8465 | MS 3191-20 A | MS 3191-20 A |
| 1.5<br>small barrel | MS 3191-1<br>SOURIAU 8465 | 8400-1608    | 8400-1607    |
| 1.5<br>large barrel | MS 3191-1<br>SOURIAU 8465 | 8400-1609    | MS 3191-16 A |
| 2.5                 | MS 3191-1<br>SOURIAU 8465 | 8400-1721    | 8400-1610    |

| diameter of contact | tool | locator         |                 |
|---------------------|------|-----------------|-----------------|
|                     |      | shell size 5    | others          |
| 3,5                 | 8459 | 8459-130<br>n°2 | 8459-130<br>n°2 |
| 5                   | 8459 | 8459-129<br>n°1 | 8459-129<br>n°1 |
| 10                  | 8463 | 8463-04         | 8463-04         |

### Contact insertion tools

| diameter<br>of contact | GROMMET SEAL VERSION |           |   |   |   |   |
|------------------------|----------------------|-----------|---|---|---|---|
|                        | shell size           |           |   |   |   |   |
|                        | 5                    | 1         | 2 | 3 | 4 | 6 |
| 1                      | 8400-2071            |           |   |   |   |   |
| 1.5                    | 8400-1475            |           |   |   |   |   |
| 2.5                    | 8400-1475            |           |   |   |   |   |
| 3.5                    | 8400-1475            |           |   |   |   |   |
| 5                      | insert manually      | 8400-2129 |   |   |   |   |
| 10                     | insert manually      |           |   |   |   |   |

| diameter<br>of contact | environmental version |           |   |   |   |   |
|------------------------|-----------------------|-----------|---|---|---|---|
|                        | shell size            |           |   |   |   |   |
|                        | 5                     | 1         | 2 | 3 | 4 | 6 |
| 1                      | 8400-2071             | 8500-93 A |   |   |   |   |
| 1,5                    | 8400-482 A            |           |   |   |   |   |
| 2,5                    | 8400-482 A            |           |   |   |   |   |
| 3,5                    | 8400-482 A            |           |   |   |   |   |
| 5                      | insert manually       | 8400-2129 |   |   |   |   |
| 10                     | insert manually       |           |   |   |   |   |

### Contact extraction tools (for both versions)

| diameter of contact |        | shell size |         |   |   |   |   |
|---------------------|--------|------------|---------|---|---|---|---|
|                     |        | 5          | 1       | 2 | 3 | 4 | 6 |
| 1                   | male   | 8310-31    | 8500-31 |   |   |   |   |
|                     | female |            |         |   |   |   |   |
| 1,5                 | male   | 8400-448   |         |   |   |   |   |
|                     | female | 8440-446   |         |   |   |   |   |
| 2,5                 | male   | 8400-448   |         |   |   |   |   |
|                     | female | 8400-322   |         |   |   |   |   |

| diameter of contact |        | shell size       |   |   |   |   |   |
|---------------------|--------|------------------|---|---|---|---|---|
|                     |        | 5                | 1 | 2 | 3 | 4 | 6 |
| 3,5                 | male   | 8400-448         |   |   |   |   |   |
|                     | female | 8400-322         |   |   |   |   |   |
| 5                   | male   | 8400-448         |   |   |   |   |   |
|                     | female | 8440-980*        |   |   |   |   |   |
| 10                  | male   | extract manually |   |   |   |   |   |
|                     | female |                  |   |   |   |   |   |



# 847 Series

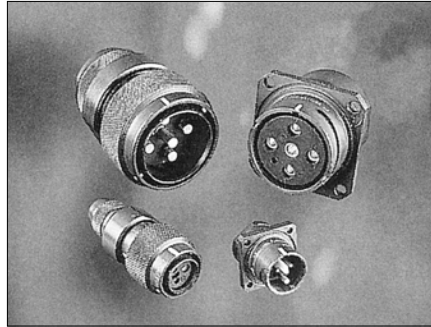


## Applications

Power supply (up to 63 A)

## Standards

VG 96918



## Description

- Bayonet coupling connector with crimp contacts
- Pilot and ground contacts available
- Contact layouts for :
  - mono 220 V
  - tri 220/380 + N + Pilot
- Shell continuity by grounding fingers.

## Characteristics

### Environmental

- Temperature range : - 55°C to + 85°C (125°C peak)
- Sealing (immersion) : 1 bar - 12 hours
- Salt spray resistance : 48 hours

### Mechanical

- Shell : steel
- Backshell : steel
- Insulator : elastomer made in one piece
- Contacts : crimp, machined, from brass
- Plating : shells and backshells :
  - olive green cadmium
  - white cadmium
- contacts and shielding bracelet :
  - silver
- Endurance : 500 mating/unmating operations

### Electrical

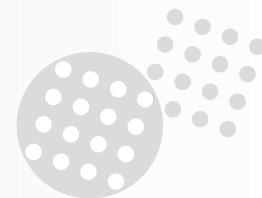
- Operating voltage :
  - shell 2 : 250 Vrms
  - shells 4-5 : 380 Vrms
- Current rating :
  - shell 2 : 16 A
  - shell 4 : 25 A
  - shell 5 : 63 A
- Withstanding voltage : 2000 Veff

## Ordering information (with contacts and backshells)

| basic series                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 847 | 48 | F | 5 | 47 | N | 3 | 02 |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|---|---|----|---|---|----|
| contact layout               | 25-48-58                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |    |   |   |    |   |   |    |
| shell type                   | A : square flange receptacle, smooth holes, without thread for backfitting<br>B : square flange receptacle, smooth holes, with thread for backfitting<br>L : square flange receptacle, threaded holes, without thread for backfitting<br>M : square flange receptacle, threaded holes, with thread for backfitting<br>F : plug<br>P : cable connecting receptacle<br>D : jam nut receptacle with thread for backfitting<br>R : jam nut receptacle without thread for backfitting |     |    |   |   |    |   |   |    |
| contact type                 | 1 : crimp male contact<br>5 : crimp female contact                                                                                                                                                                                                                                                                                                                                                                                                                               |     |    |   |   |    |   |   |    |
| backshell type               | 00 : receptacles (A, L, R types), without thread for backfitting receptacles (B, M, D), plugs and cable connecting receptacles supplied without backshell<br>21 : straight cable clamp and sealing gland backshell<br>23 : elbow cable clamp and sealing gland backshell<br>47 : straight backshell for shield termination and heatshrink sleeving<br>48 : straight backshell for shield termination and heatshrink sleeving and tightening shield ring                          |     |    |   |   |    |   |   |    |
| orientation                  | N, W, X, Y : in all cases (orientation during the wiring operation)                                                                                                                                                                                                                                                                                                                                                                                                              |     |    |   |   |    |   |   |    |
| insert type <sup>① ② ③</sup> | 0 : without grommet, without pilot contact<br>1 : with grommet, without pilot contact<br>2 : without grommet, with pilot contact<br>3 : with grommet, with pilot contact                                                                                                                                                                                                                                                                                                         |     |    |   |   |    |   |   |    |
| specifications               | 02 : olive green cadmium<br>03 : olive green cadmium with specific contacts<br>09 : white cadmium                                                                                                                                                                                                                                                                                                                                                                                |     |    |   |   |    |   |   |    |

- <sup>①</sup> contact layout 25 : inserts are without pilot contact  
<sup>②</sup> contact layout 58 : inserts are only with grommet  
<sup>③</sup> contact layouts 25 and 48 : with or without pilot contact Filler plug is supplied

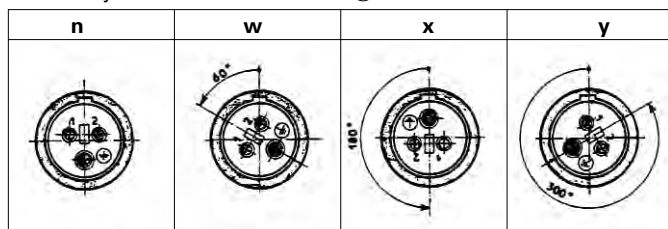
# 847 Series



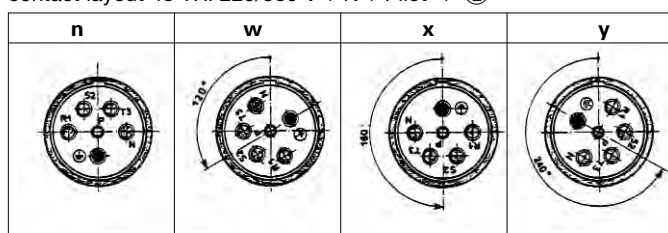
## Contact layouts and polarizations

viewed from front face of male insulator

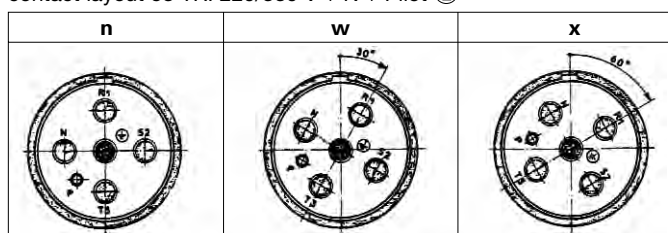
contact layout 25 - MONO 220 V + ⊕



contact layout 48 TRI 220/380 V + N + Pilot + ⊕



contact layout 58 TRI 220/380 V + N + Pilot ⊕



## Contacts

(only for 02 and 09 spec.)

|                |                              | contact layouts |                        |                                                  |
|----------------|------------------------------|-----------------|------------------------|--------------------------------------------------|
|                |                              | 25              | 48                     | 58                                               |
| male contact   | phase                        | 8400.2311       | 8400.2182              | 8400.2322                                        |
|                | ground                       | 8400.2181       | 8400.2183              | 8400.2323 <sup>①</sup>                           |
|                | pilot                        | -               | 8400.2312              |                                                  |
| female contact | phase                        | 8400.2313       | 8400.2214              | 8400.2321                                        |
|                | ground                       | 8400.2213       | 8400.2215              | 8400.2324 <sup>①</sup>                           |
|                | pilot                        | -               | 8400.2216              |                                                  |
|                | filler plug <sup>②</sup>     | -               | 8522.389A              |                                                  |
|                | reducing <sup>③</sup> sleeve | -               | 8400.3506 <sup>④</sup> | 8400.2315 <sup>⑤</sup><br>8400.2327 <sup>⑤</sup> |

<sup>①</sup> Contact in two parts : contact body and crimping tip

<sup>②</sup> Insure sealing for version without pilot contact

<sup>③</sup> to order separately

<sup>④</sup> for wire section 0.93 mm<sup>2</sup>

<sup>⑤</sup> for wire section 5.30 mm<sup>2</sup>

<sup>⑥</sup> for wire section 8.98 mm<sup>2</sup>

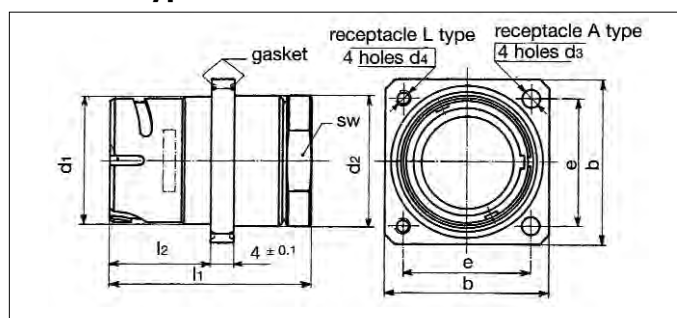
usable for phase

and ground contacts

## Dimensions

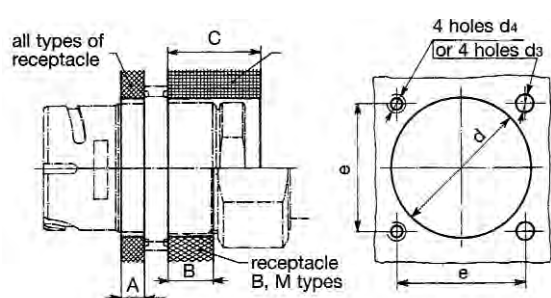
Square flange receptacle, smooth or threaded holes without thread for backfitting

A and L types



| shell | d1<br>Max     | d2<br>Max     | d3          | d4 | l1<br>Max     | l2<br>Max    | e           | b<br>Max    | sw          |
|-------|---------------|---------------|-------------|----|---------------|--------------|-------------|-------------|-------------|
| 2     | 20.5<br>.807  | 22<br>.866    | 3.2<br>.126 | M3 | 33.5<br>1.319 | 16.6<br>.654 | 21<br>.827  | 27<br>1.063 | 19<br>.748  |
| 4     | 31.5<br>1.240 | 32.8<br>1.291 | 5.5<br>.217 | M5 | 35.6<br>1.402 | 17.5<br>.689 | 33<br>1.299 | 42<br>1.654 | 30<br>1.181 |
| 5     | 43.1<br>1.697 | 45<br>1.772   | 5.5<br>.217 | M5 | 49<br>1.929   | 18.8<br>.740 | 43<br>1.693 | 54<br>2.126 | 42<br>1.654 |

## Panel cut-out

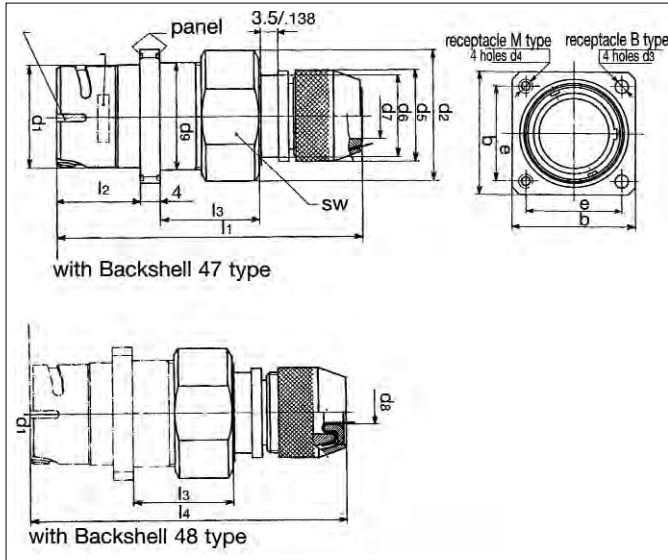


| shell | A<br>Max     | B<br>Max    | C<br>Max  | d           | e           | d3          | d4 |
|-------|--------------|-------------|-----------|-------------|-------------|-------------|----|
| 2     | 3.75<br>.148 | 6.5<br>.256 | illimited | 23<br>.906  | 21<br>.827  | 3.2<br>.126 | M3 |
| 4     | 4.0<br>.157  | 6.5<br>.256 | illimited | 34<br>1.339 | 33<br>1.299 | 5.5<br>.217 | M5 |
| 5     | 5.75<br>.226 | 6.5<br>.256 | illimited | 46<br>1.811 | 43<br>1.693 | 5.5<br>.217 | M5 |

# 847 Series

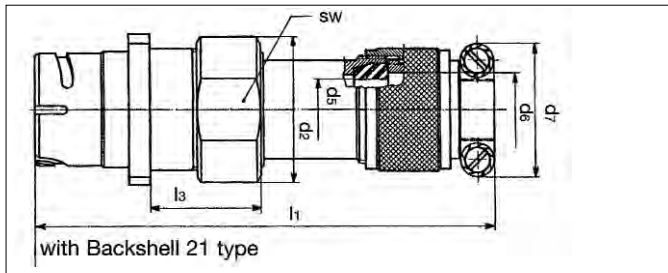


## Square flange receptacle, smooth or threaded holes, with thread for backfitting B and M types



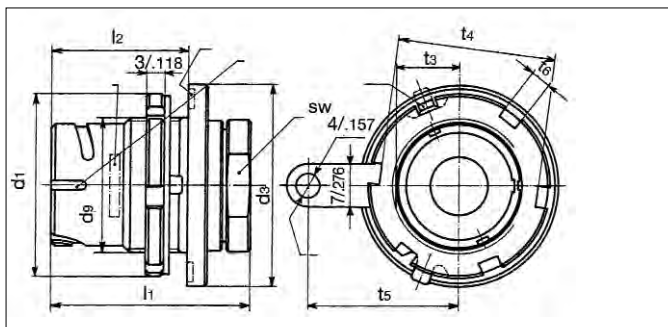
| shell | d2<br>Max     | d5<br>Max     | d6            | d7            | d8           | d9<br>Max    | l1<br>Max     | l3<br>Max    | l4<br>Max     | sw          |
|-------|---------------|---------------|---------------|---------------|--------------|--------------|---------------|--------------|---------------|-------------|
| 2     | 26.1<br>1.028 | 18.1<br>.713  | 16.1<br>.634  | 9.2<br>.362   | -<br>-       | 21.5<br>.846 | 61.2<br>2.409 | 20.3<br>.799 | -<br>-        | 24<br>.945  |
| 4     | 38.6<br>1.520 | 28.1<br>1.106 | 26.2<br>1.031 | 18.3<br>.720  | 12.8<br>.504 | 33<br>1.299  | 64.5<br>2.539 | 21.7<br>.854 | 66.7<br>2.626 | 36<br>1.417 |
| 5     | 50.6<br>1.992 | 41.1<br>1.618 | 37.5<br>1.476 | 28.8<br>1.134 | 21.6<br>.850 | 44<br>1.732  | 68.5<br>2.697 | 22.6<br>.890 | 70.7<br>2.783 | 46<br>1.811 |

Dimensions d1, d3, d4, e, b, l2 are identical with A and L type receptacle



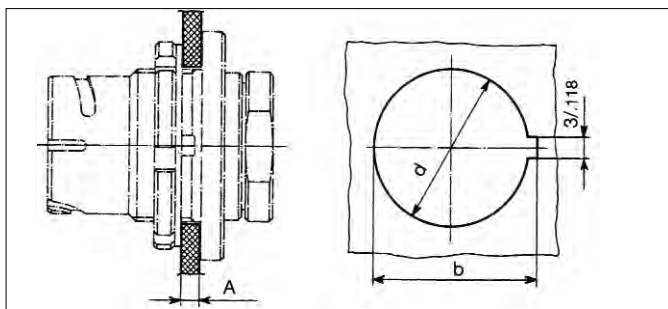
| shell | d2<br>Max     | d5<br>Max     | d6<br>Max     | d7<br>Max     | l1<br>Max      | l3<br>Max    | sw          |
|-------|---------------|---------------|---------------|---------------|----------------|--------------|-------------|
| 2     | 26.1<br>1.028 | 12.6<br>.496  | 13.1<br>.516  | 23.8<br>.937  | 82.3<br>3.240  | 20.3<br>.799 | 24<br>.945  |
| 4     | 38.6<br>1.520 | 19.1<br>.752  | 20.6<br>.811  | 33.8<br>1.331 | 98.1<br>3.862  | 21.7<br>.854 | 36<br>1.417 |
| 5     | 50.6<br>1.992 | 28.6<br>1.126 | 30.1<br>1.185 | 43.8<br>1.724 | 119.7<br>4.713 | 22.6<br>.890 | 46<br>1.811 |

## Jam nut receptacle without thread for backfitting



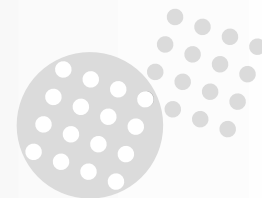
| shell | d1          | d9      | d3<br>Max   | l1<br>Max     | l2<br>Max    | t3<br>Max    | t4<br>Max   | t5            | t6          | sw          |
|-------|-------------|---------|-------------|---------------|--------------|--------------|-------------|---------------|-------------|-------------|
| 2     | 30<br>1.181 | M22x1   | 33<br>1.299 | 33.4<br>1.315 | 22.5<br>.886 | 10.4<br>.409 | 26<br>1.024 | 25<br>.984    | 3.5<br>.138 | 19<br>.748  |
| 4     | 46<br>1.811 | M36x1.5 | 48<br>1.890 | 35.5<br>1.398 | 23.2<br>.913 | 16<br>.630   | 41<br>1.614 | 34<br>1.339   | 5<br>.197   | 30<br>1.181 |
| 5     | 57<br>2.244 | M48x1.5 | 59<br>2.323 | 49<br>1.929   | 23.5<br>.925 | 22.4<br>.882 | 52<br>2.047 | 39.5<br>1.555 | 5<br>.197   | 42<br>1.654 |

## Panel cut-out

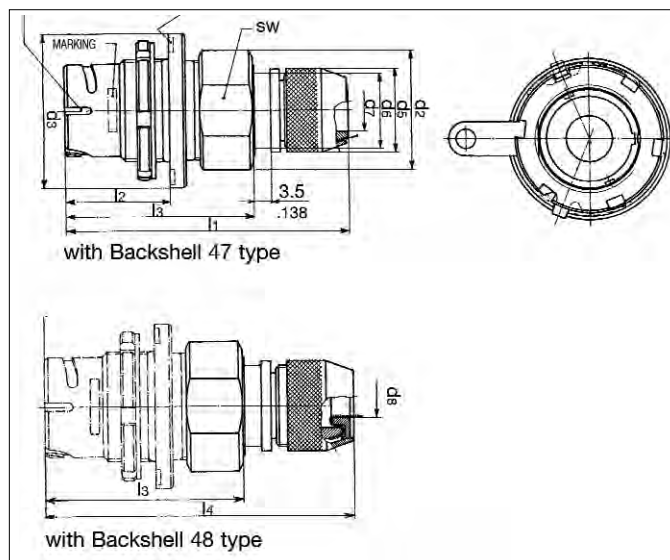


| shell | A<br>Max  | d             | b             |
|-------|-----------|---------------|---------------|
| 2     | 3<br>.118 | 22.2<br>.874  | 24.2<br>.953  |
| 4     | 3<br>.118 | 36.2<br>1.425 | 38.2<br>1.504 |
| 5     | 3<br>.118 | 48.2<br>1.898 | 50.2<br>1.976 |

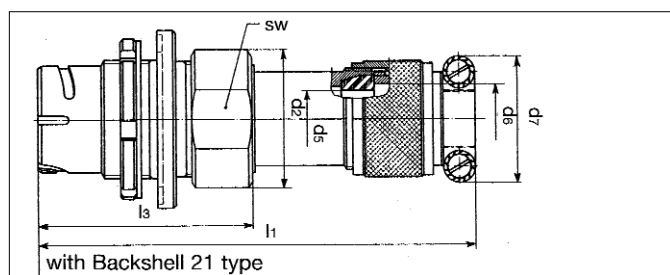
# 847 Series



## Jam nut receptacle with thread for backfitting

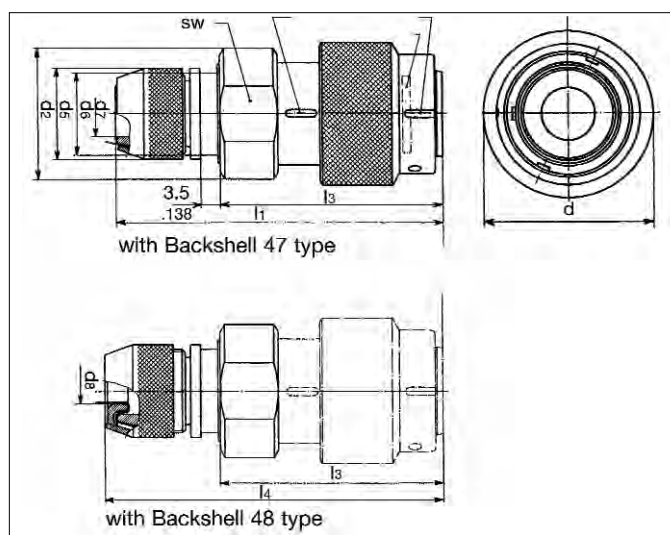


| shell | d2<br>Max     | d3<br>Max   | d5<br>Max     | d6            | d7            | d8           | l1<br>Max     | l2<br>Max    | l3<br>Max     | l4<br>Max     | sw          |
|-------|---------------|-------------|---------------|---------------|---------------|--------------|---------------|--------------|---------------|---------------|-------------|
| 2     | 26.1<br>1.028 | 33<br>1.299 | 18.1<br>.713  | 16.1<br>.634  | 9.2<br>.362   | -<br>-       | 61.1<br>2.406 | 22.5<br>.886 | 38.6<br>1.520 | -<br>-        | 24<br>.945  |
| 4     | 38.6<br>1.520 | 48<br>1.890 | 28.1<br>1.106 | 26.2<br>1.031 | 18.3<br>.720  | 12.8<br>.504 | 64.4<br>2.535 | 23.2<br>.913 | 41.2<br>1.622 | 66.6<br>2.622 | 36<br>1.417 |
| 5     | 50.6<br>1.992 | 59<br>2.323 | 41.1<br>1.618 | 37.5<br>1.476 | 28.8<br>1.134 | 21.6<br>.850 | 68.4<br>2.693 | 23.5<br>.925 | 44.9<br>1.768 | 70.7<br>2.783 | 46<br>1.811 |



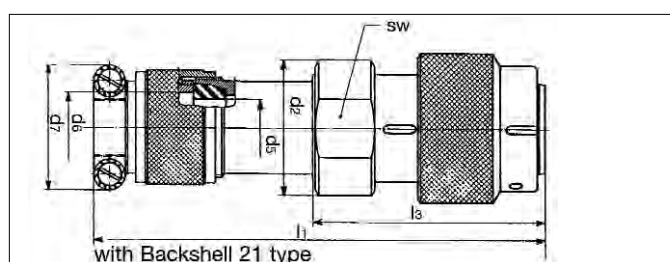
| shell | d2<br>Max     | d5<br>Max     | d6<br>Max     | d7<br>Max     | l1<br>Max      | l3<br>Max     | sw          |
|-------|---------------|---------------|---------------|---------------|----------------|---------------|-------------|
| 2     | 26.1<br>1.028 | 12.6<br>.496  | 13.1<br>.516  | 23.8<br>.937  | 82.3<br>3.240  | 38.6<br>1.520 | 24<br>.945  |
| 4     | 38.6<br>1.520 | 19.1<br>.752  | 20.6<br>.811  | 33.8<br>1.331 | 98.1<br>3.862  | 41.2<br>1.622 | 36<br>1.417 |
| 5     | 50.6<br>1.992 | 28.6<br>1.126 | 30.1<br>1.185 | 43.8<br>1.724 | 119.7<br>4.713 | 44.9<br>1.768 | 46<br>1.811 |

## Plug F type



| shell | d<br>Max      | d2<br>Max     | d5<br>Max     | d6            | l3<br>Max     | sw          |
|-------|---------------|---------------|---------------|---------------|---------------|-------------|
| 2     | 28.6<br>1.126 | 26.1<br>1.028 | 18.1<br>.713  | 16.1<br>.634  | 44<br>1.732   | 24<br>.945  |
| 4     | 41.1<br>1.618 | 38.6<br>1.520 | 28.1<br>1.106 | 26.2<br>1.031 | 46.5<br>1.831 | 36<br>1.417 |
| 5     | 53.1<br>2.091 | 50.6<br>1.992 | 41.1<br>1.618 | 37.5<br>1.476 | 48.8<br>1.921 | 46<br>1.811 |

| shell | d7            | l1<br>Max     | d8           | l4<br>Max     |
|-------|---------------|---------------|--------------|---------------|
| 2     | 9.2<br>.362   | 64.2<br>2.528 | -<br>-       | -<br>-        |
| 4     | 18.3<br>.720  | 67.7<br>2.665 | 12.8<br>.504 | 69.9<br>2.752 |
| 5     | 28.8<br>1.134 | 71.8<br>2.827 | 21.6<br>.850 | 74.1<br>2.917 |

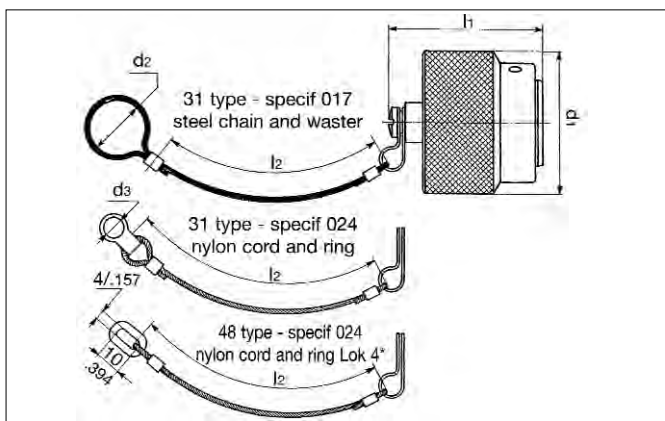
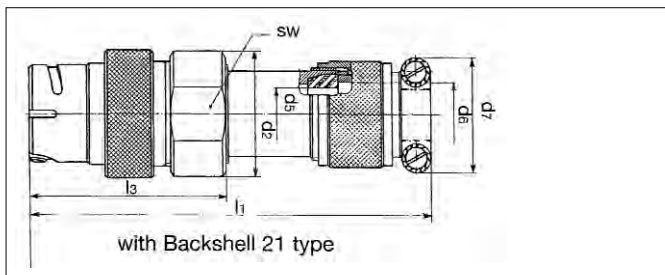
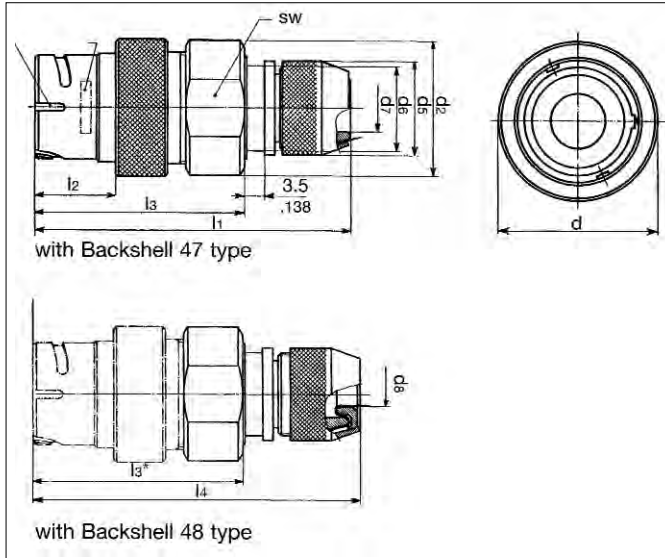


| shell | d2<br>Max     | d5<br>Max     | d6<br>Max     | d7<br>Max     | l1<br>Max      | l3<br>Max     | sw          |
|-------|---------------|---------------|---------------|---------------|----------------|---------------|-------------|
| 2     | 26.1<br>1.028 | 12.6<br>.496  | 13.1<br>.516  | 23.8<br>.937  | 85.4<br>3.362  | 44<br>1.732   | 24<br>.945  |
| 4     | 38.6<br>1.520 | 19.1<br>.752  | 20.6<br>.811  | 33.8<br>1.331 | 101.4<br>3.992 | 46.5<br>1.831 | 36<br>1.417 |
| 5     | 50.6<br>1.992 | 28.6<br>1.126 | 30.1<br>1.185 | 43.8<br>1.724 | 123.0<br>4.843 | 46.8<br>1.843 | 46<br>1.811 |

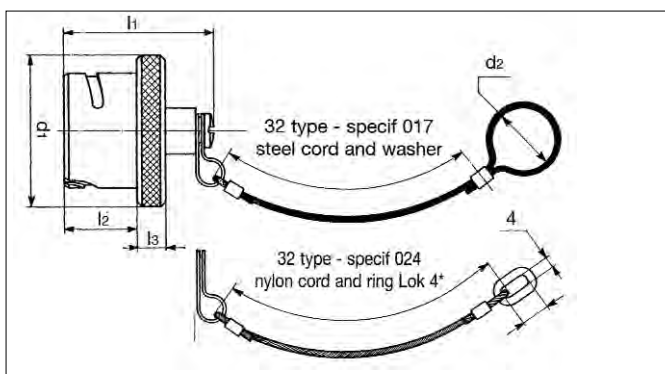
# 847 Series



## Cable connecting receptacle P type



\* Mounting with insulok (Hellermann) collar



\* Mounting with insulok (Hellermann) collar

| shell | d             | d2<br>Max     | d5<br>Max     | d6            | l2           | l3<br>Max     | sw          |
|-------|---------------|---------------|---------------|---------------|--------------|---------------|-------------|
| 2     | 26.5<br>1.043 | 26.1<br>1.028 | 18.1<br>.713  | 16.1<br>.634  | 15.5<br>.610 | 40.6<br>1.598 | 24<br>.945  |
| 4     | 39<br>1.535   | 38.6<br>1.520 | 28.1<br>1.106 | 26.2<br>1.031 | 16.4<br>.646 | 42.9<br>1.689 | 36<br>1.417 |
| 5     | 51<br>2.008   | 50.6<br>1.992 | 41.1<br>1.618 | 37.5<br>1.476 | 13.5<br>.531 | 45.1<br>1.776 | 46<br>1.811 |

| shell | d7            | l1<br>Max     | d8           | l4<br>Max     |
|-------|---------------|---------------|--------------|---------------|
| 2     | 9.2<br>.362   | 60.9<br>2.398 | -<br>-       | -<br>-        |
| 4     | 18.3<br>.720  | 63.5<br>2.500 | 12.8<br>.504 | 65.7<br>2.587 |
| 5     | 28.8<br>1.134 | 68.2<br>2.685 | 21.6<br>.850 | 70.5<br>2.776 |

| shell | d2<br>Max     | d5<br>Max     | d6<br>Max     | d7<br>Max     | l1<br>Max      | l3<br>Max     | sw          |
|-------|---------------|---------------|---------------|---------------|----------------|---------------|-------------|
| 2     | 26.1<br>1.028 | 12.6<br>.496  | 13.1<br>.516  | 23.8<br>.937  | 82<br>3.228    | 40.6<br>1.598 | 24<br>.945  |
| 4     | 38.6<br>1.520 | 19.1<br>.752  | 20.6<br>.811  | 33.8<br>1.331 | 97.8<br>3.850  | 42.9<br>1.689 | 36<br>1.417 |
| 5     | 50.6<br>1.992 | 28.6<br>1.126 | 30.1<br>1.185 | 43.8<br>1.724 | 119.4<br>4.701 | 45.1<br>1.776 | 46<br>1.811 |

## part numbers

8.45.20.0031.017  
8.45.40.0031.017  
8.45.50.0031.017

8.45.20.0031.024  
8.45.40.0031.024  
8.45.50.0031.024

8.45.20.0048.024  
8.45.40.0048.024  
8.45.50.0048.024

## part numbers

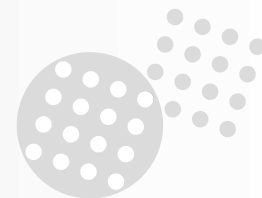
8.45.20.0032.017  
8.45.40.0032.017  
8.45.50.0032.017

8.45.20.0032.024  
8.45.40.0032.024  
8.45.50.0032.024

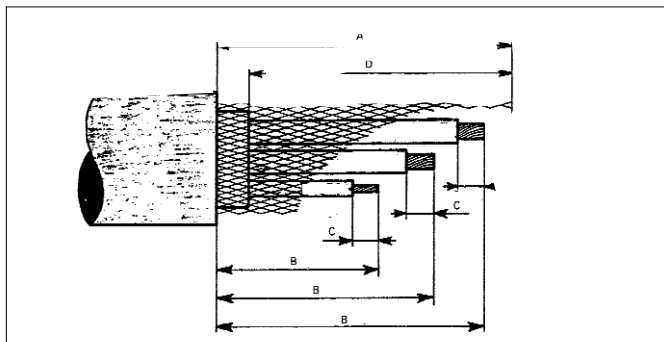
| dim    | 2             | 4             | 5             |
|--------|---------------|---------------|---------------|
| d1 Max | 26.6<br>1.047 | 39.1<br>1.539 | 51.1<br>2.012 |
| d2     | 23<br>.906    | 34<br>1.339   | 46<br>1.811   |
| d3     | 5<br>.197     | 5<br>.197     | 5<br>.197     |
| l1 Max | 31.5<br>1.240 | 31.5<br>1.240 | 34.5<br>1.358 |
| l2     | 130<br>5.118  | 130<br>5.118  | 130<br>5.118  |

| dim    | 2             | 4             | 5             |
|--------|---------------|---------------|---------------|
| d1 Max | 26.6<br>1.047 | 39.1<br>1.539 | 50<br>1.969   |
| d2     | 23<br>.906    | 34<br>1.339   | 46<br>1.811   |
| l1 Max | 27<br>1.063   | 27.2<br>1.071 | 27.2<br>1.071 |
| l2 Max | 12.5<br>.492  | 13.2<br>.520  | 13.2<br>.520  |
| l3 Max | 5.1<br>.201   | 5.1<br>.201   | 5.1<br>.201   |
| l4     | 130<br>5.118  | 130<br>5.118  | 130<br>5.118  |

# 847 Series



## Cable stripping (for type 47 and 48 backshells)



| shell | A           | D           | type of cont. | B           | C           |
|-------|-------------|-------------|---------------|-------------|-------------|
| 2     | 50<br>1.969 | 40<br>1.575 | ground        | 50<br>1.969 | 6.5<br>.256 |
|       |             |             | phase         | 45<br>1.772 |             |
| 4     | 55<br>2.165 | 45<br>1.772 | ground        | 55<br>2.165 | 6.5<br>.256 |
|       |             |             | phase         | 50<br>1.969 |             |
|       |             |             | pilot         | 55<br>2.165 |             |
| 5     | 70<br>2.756 | 50<br>1.969 | ground        | 70<br>2.756 | 11<br>.433  |
|       |             |             | phase         | 65<br>2.559 |             |
|       |             |             | pilot         | 70<br>2.756 | 6.5<br>.256 |

## Crimping tools

| shell | plier                 | turret    | type of contact | turret position | section cable (mm²) | selector position |
|-------|-----------------------|-----------|-----------------|-----------------|---------------------|-------------------|
| 2     | M22520-1/01<br>(8365) | 8400.2281 | ground          | red             | 1.34 à 1.50<br>1.91 | 6<br>7            |
|       |                       |           | phase           | blue            | 1.34 à 1.50<br>1.91 | 6<br>7            |
| 4     | M22520-1/01<br>(8365) | 8400.2282 | ground          | red             | 2.5 à 4.0           | 8                 |
|       |                       |           | phase           | blue            | 2.5 à 4.0           | 8                 |
|       |                       |           | pilot           | yellow          | 0.50 à 0.75         | 4                 |
| 5     | MS3191-1<br>(8465)    | 8400.2336 | pilot           | -               | 0.50 à 0.75         | -                 |
|       | M22520-1/01<br>(8365) | 8400.2282 |                 | yellow          | 0.50 à 0.75         | 4                 |
|       | 8459                  | 8459.129  | ground phase    | -               | 13.40               | -                 |

## Extraction and insertion tools

| shell | remark          | type of contact | insertion tool male/female | extraction tool (male) | extraction tool (female) |
|-------|-----------------|-----------------|----------------------------|------------------------|--------------------------|
| 2     | -               | phase           | 8400.1475                  | 8400.448               | 8400.446                 |
|       |                 | ground          |                            |                        | 8400.322                 |
| 4     | without grommet | pilot           | 8500.29A                   | 8500.31                | 8500.31                  |
|       | with grommet    |                 | 8400.2071                  |                        |                          |
|       | -               | phase           | 8400.1475                  | 8400.448               | 8400.322                 |
| 5     | -               | ground          |                            |                        |                          |
|       |                 | pilot           | 8400.2071                  | 8310.31                | 8310.31                  |
|       | cable 5.15 mm²  | phase           | 8400.2428<br>8380.02       | 8400.448               | 8400.980                 |
|       |                 | ground          | 8400.1549                  | 8400.1549              | 8400.1549                |

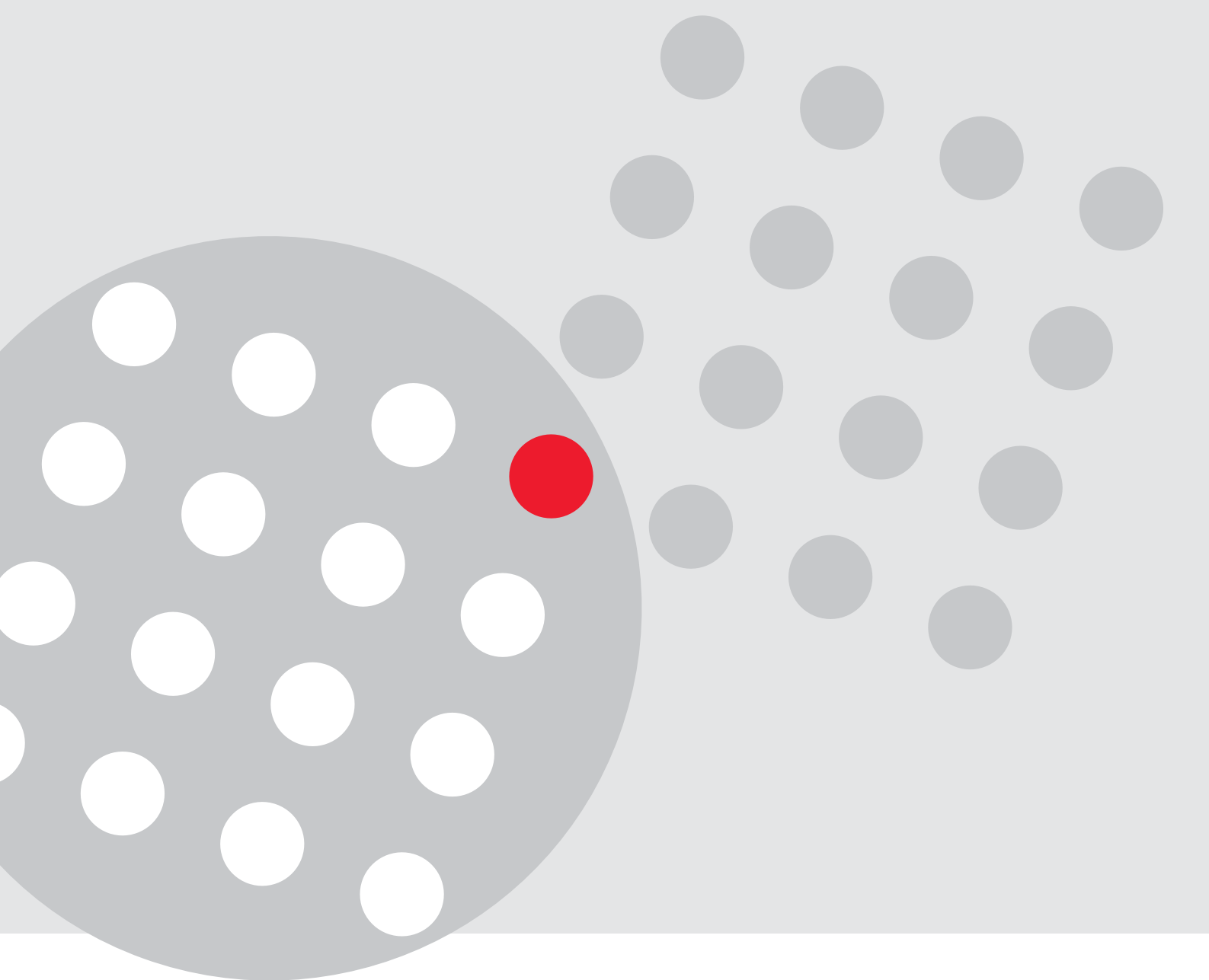
## Cable

| cable characteristics  |                         | shell 2       | shell 4       | shell 5        |
|------------------------|-------------------------|---------------|---------------|----------------|
| Ø over insulator Max   | type 21 et 23 backshell | 12.50<br>.492 | 19.00<br>.748 | 28.50<br>1.122 |
|                        | type 47 backshell       | 9.10<br>.358  | 18.20<br>.717 | 28.70<br>1.130 |
|                        | type 48 backshell       | -             | 12.80<br>.504 | 21.60<br>.850  |
|                        |                         | -             | -             | -              |
| Ø braid strands        |                         | 0.20<br>.008  | 0.25<br>.010  | 0.40<br>.016   |
| pilot wire             | over insulator Max dia. | -             | -             | 2.30<br>.091   |
|                        | over insulator min dia. | -             | -             | 1.80<br>.071   |
|                        | section min (mm²)       | -             | -             | 0.50<br>.0008  |
|                        | section Max (mm²)       | -             | -             | 0.75<br>.0012  |
| ground and phase wires | over insulator Max dia. | 3.30<br>.130  | 4.40<br>.173  | 8.00<br>.315   |
|                        | over insulator min dia. | 2.30<br>.091  | 3.10<br>.122  | 7.00<br>.276   |
|                        | section min (mm²)       | 1.34<br>.0021 | 2.50<br>.0039 | 13.40<br>.0208 |
|                        | section Max (mm²)       | 1.91<br>.0030 | 4.00<br>.0062 |                |

## Heat shrink sleeves (for type 47 and 48 backshells)

| shell | straight-sleeve | bent-sleeve   |
|-------|-----------------|---------------|
| 2     | 202 K 132 - 4   | 222 K 132 - 4 |
| 4     | 202 K 163 - 4   | 222 K 163 - 4 |
| 5     | 202 K 174 - 4   | 222 K 174 - 4 |





[www.souriau.com](http://www.souriau.com)

