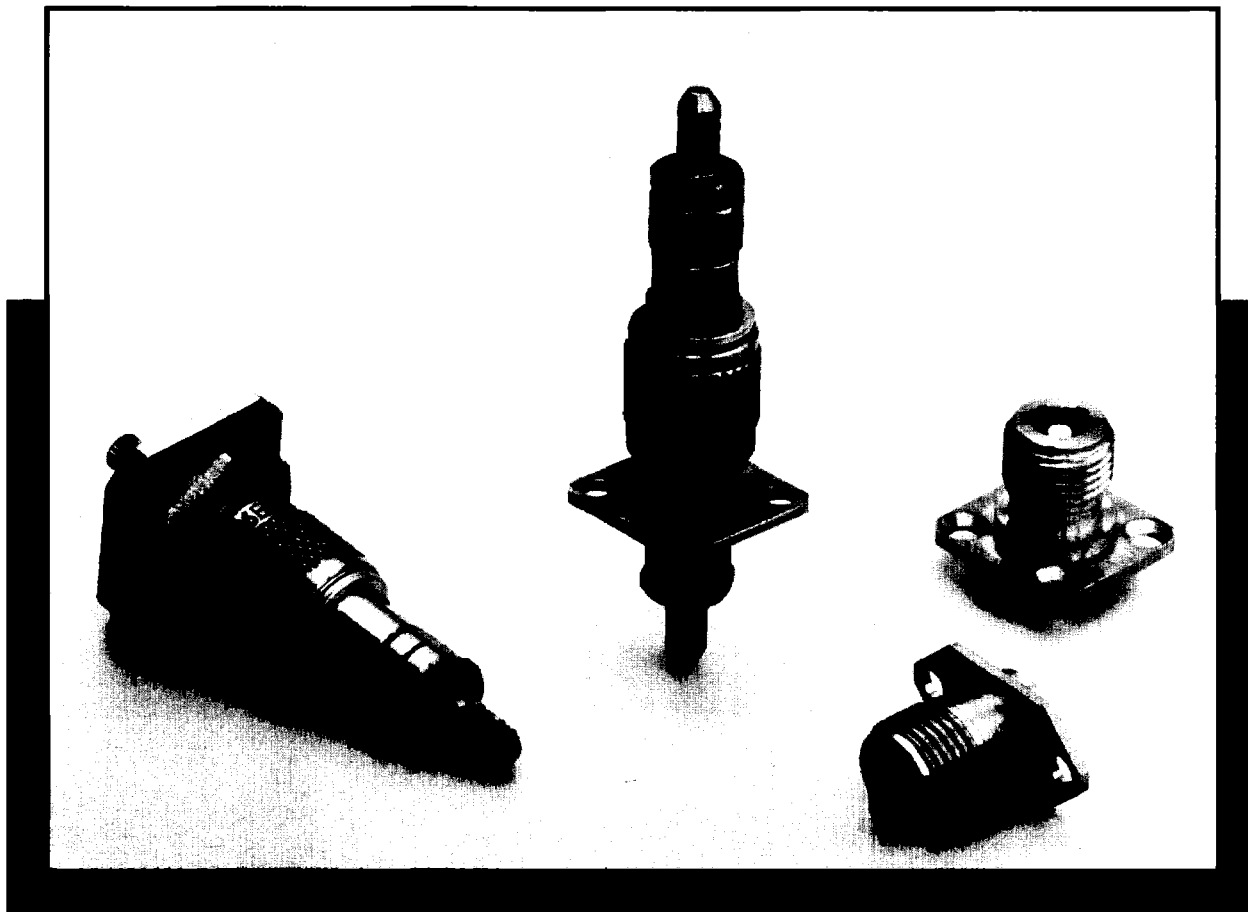




## **(RSC) RUGGEDISED SINGLEWAY CONNECTOR**

- High performance ceramic ferrule connectors
- Rugged construction incorporating environmental sealing
- Manufactured in Arcap for corrosion resistance
- Anti-vibration coupling mechanism
- Singlemode or multimode capability
- Fibre faces easily accessible for cleaning
- Simplified connector termination
- 6 Keyway orientation options
- Full range of ancillary components and tooling



# General Specification:

## Optical

Attenuation: Typ 0.25 dB (50/125µm fibre)  
 Repeatability: better than 0.2dB.  
 Fibre types: 8, 50, 62.5, 85/125µm  
 100/140µm  
 200/230µm  
 200/280µm  
 200/300µm

## Cable Types

Tight jacket kevlar reinforced  
 secondary buffered fibre

## Mechanical

Temperature range – 65°C to 155°C:  
 Cable and epoxy dependent.  
 Mechanical endurance >500 mating cycles

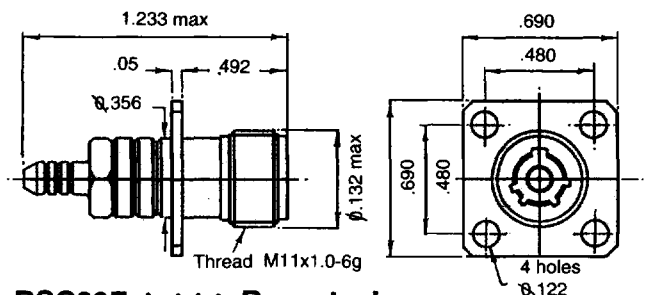
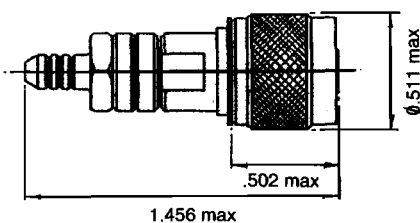
## Materials

Shell: Arcap  
 Ferrule: Zirconia  
 Alignment sleeve: Zirconia  
 Seals: Fluorosilicone

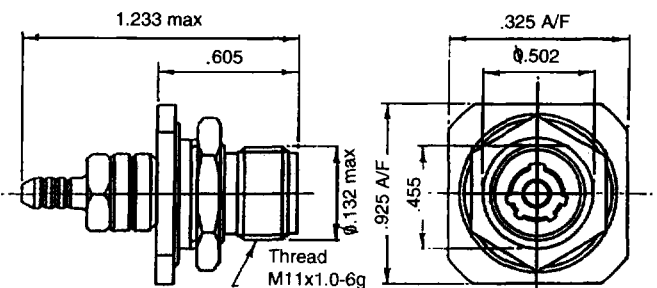
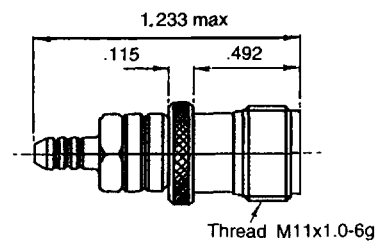
# Dimensional Specification:

All dimensions in inches (except threads)

## RSC06E-\*\*\* Plug

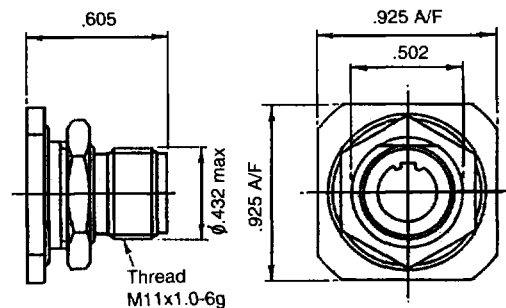
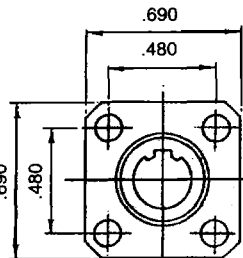
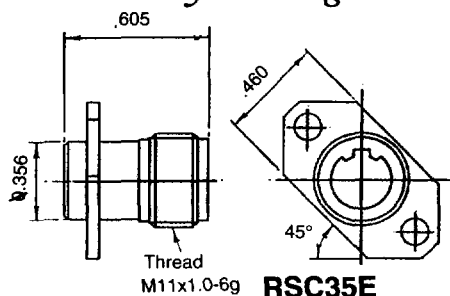


## RSC00E-\*\*\* Receptacle



## RSC07E-\*\*\* Jam Nut Receptacle

## RSC02E-\*\*\* Free Receptacle Dummy Stowages



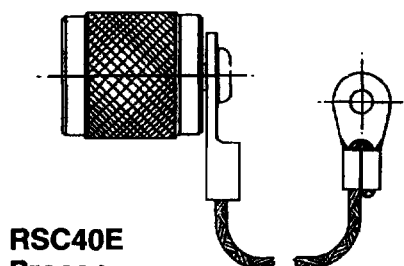
## RSC35E

## 2 Hole Bulkhead

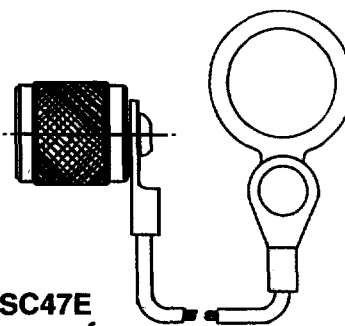
## RSC30E

## 4 Hole Bulkhead

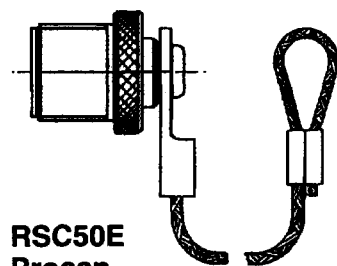
## RSC37E Jam Nut Receptacle



## RSC40E Procap for Receptacle Connector



## RSC47E Procap for jam nut receptacle



## RSC50E Procap for Plug Connector



## How to Order

RSC    \*\* E    -    \*    -    \*\*\*

### Shell Style

- 00 Bulkhead receptacle
- 02 Free receptacle
- 06 Plug
- 07 Jam nut receptacle

Orientation N, A, B, C, D, E

### Cable type

- 100 Reinshagen and BNR 2.5mm tight jacket 200/280µm fibre
  - 200 Brand Rex 1.98mm tight jacket 100/140µm fibre
  - 300 Brand Rex 1.65mm tight jacket 100/140µm fibre
  - 700 Cabeltel 1.5mm tight jacket 200/280µm fibre
- For other cable types consult Technical Sales

**Example Part number: RSC06E-N-100**

## Dummy Receptacles and Procaps

| Part Number | Description                        |
|-------------|------------------------------------|
| RSC30E      | 4 hole fixing dummy receptacle     |
| RSC35E      | 2 hole fixing dummy receptacle     |
| RSC37E      | Jam nut fixing dummy receptacle    |
| RSC40E      | Procap for 2 and 4 hole receptacle |
| RSC47E      | Procap for jam nut receptacle      |
| RSC50E      | Procap Plug connector              |

## Termination Tools and Consumables

| Part Number | Description                  |
|-------------|------------------------------|
| 454486      | Polishing jig                |
| 454487      | Rubber pads (4 Req'd)        |
| 454539      | Lapping film set             |
|             | comprises:-                  |
| 454481      | Coarse disc (10 off)         |
| 454482      | DR diamond disc              |
| 454483      | DM diamond disc              |
| 454484      | Polishing disc (10 off)      |
| 454335      | Fibre stripping tool (Hozan) |
| 451724      | Spanners (2 req'd)           |
| 453228      | Fibre cleaving tool          |
| 454342      | Crimp tool – Primary Crimp   |
| 454779      | Crimp tool – Secondary Crimp |

} These items are available separately

## Additional Optional Tooling

| Part Number | Description                     |
|-------------|---------------------------------|
| 454964      | Priorspec Microscope (x200 Mag) |
| 454775      | Priorspec RSC adaptor           |
| 453936      | Heater Block                    |

## Ferrule Selection Chart

– must be ordered separately

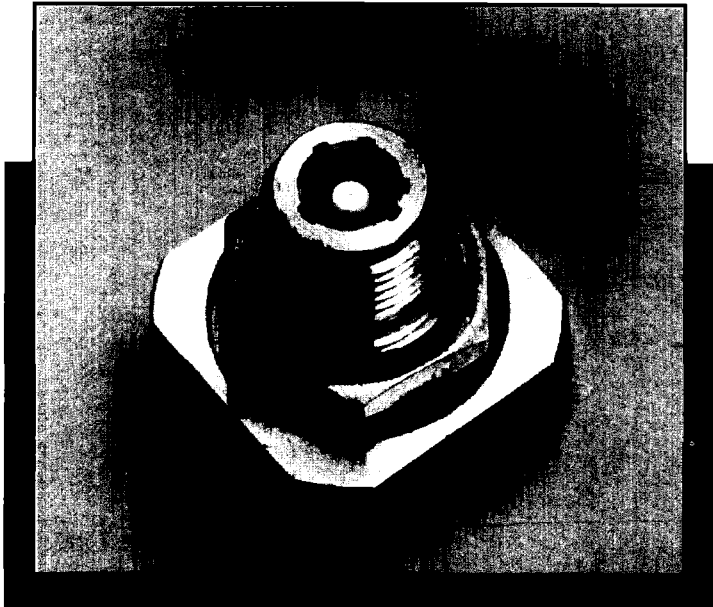
| Part Number | Fibre Size             |
|-------------|------------------------|
| 454103-126  | } 50, 62.5<br>80/125µm |
| 454103-127  |                        |
| 454103-128  |                        |
| 454103-141  | } 100/140µm            |
| 454103-145  |                        |
| 454103-232  | 200/230µm              |
| 454103-283  | 200/280µm              |
| 453800-305  | 200/300µm              |

## Consumables

| Part Number | Description      |
|-------------|------------------|
| 454257      | Epoxy Kit 353ND  |
| 454297      | Syringe Kit      |
| 450490      | Spatula (6 Off)  |
| 454299      | Scalpel + Blades |

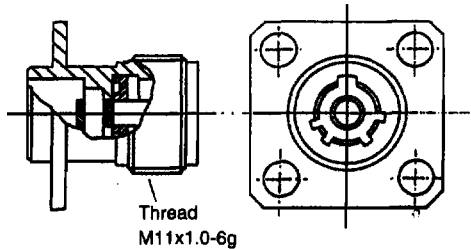


# HERMETIC RECEPTACLE (HR·RSC)

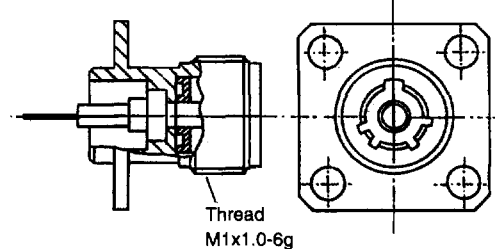


- Compatible with the RSC plug connector
- Plain ferrule with polished fibre both ends or pigtail version
- Leak rate  $< 1 \times 10^{-6}$  cc/s
- 125°C temperature rating

**HR-RSC-F-\*-\*-\***



**HR-RSC-P-\*-\*-\*-\***



Dimensions as for RSC receptacle unless otherwise requested

## *How to Order*

**HR-RSC - \* - \* - \* - \* - \***

**Ferrule Type**  
F Ferrule only  
P Pigtail\*

**Pigtail Length:** cms  
\*for pigtail options only

**Orientation** N, A, B, C, D, E

**Fibre Size:** 125, 140, 280  $\mu$ m

\*Note pigtail cable 900  $\mu$ m buffer only

For further information contact technical sales

PDS3/92



**DEUTSCH**  
**LTD**

**Fibre Optic Products**  
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WEST SUSSEX RH19 1RW  
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