

# SECTION 9



**BNC / BNC 75 HDTV / BNC-TRX**

*R141 / R142 / R266*



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## Introduction



|     |      |     |                  |
|-----|------|-----|------------------|
| 50Ω | DC - | 4   | GHz              |
|     | DC - | 1.5 | GHz (commercial) |
|     | DC - | 1.0 | GHz (Eco)        |
|     | DC - | 10  | GHz (TRIAxIAL)   |
| 75Ω | DC - | 1.5 | GHz              |
|     | DC - | 6   | GHz (HDTV)       |
|     | DC - | 1.0 | GHz (Eco)        |

### GENERAL

- Worldwide standardized coaxial connectors
- Bayonet coupling
- Proven strength and reliability
- Good RF performance

### APPLICABLE STANDARDS

- MIL-C-39012 / MIL STD 348-A/301
- IEC 169-8
- CECC 22120
- NF-C-93564 KBN series
- UTE-C-93564

### APPLICATIONS

- Civil and military radio-telecommunication equipment
- Test and measurement
- Video communication
- Broadcast
- Industrial network
- General electronics

The BNC connector is the most popular coaxial connector series in the world, featuring a two-pin bayonet coupling system for quick and reliable engagement and disengagement.

#### • Wide range:

Radiall's BNC connectors are available with two characteristic impedances: 50Ω and 75Ω. They are completely intermateable. RADIALL also offers low-cost BNC range, and a triaxial BNC TRX series.

#### • Convenient three piece design:

Straight and right angle crimp type cable connectors feature a three piece design: single piece body + center contact + outer ferrule.



## Introduction

### • Fast and reliable cable attachment

Cable connectors can be either fully crimped or soldered/crimped, offering full flexibility for fast, reliable, high-volume production with standard manual or pneumatic tooling.

- The center contact can be either crimped or soldered,
- The outer contact is attached to the cable by crimping a ferrule.

## COMPOSITE BNC 75Ω HDTV CONNECTOR

### GENERAL

- The first lightweight composite HDTV BNC available on the market
- Easy to connect and disconnect from the rear—ideal for high-density and recessed bulkhead applications
- Color-coded boots directly on the connector for easy video signal identification
- Guaranteed frequency up to 6 GHz for studio-quality performance
- 1000 mating cycles minimum for guaranteed durability in the field
- True 75Ω design

HDTV places new demands on maintaining high signal integrity at high data rates, from studio-quality broadcast production to video conferencing equipment, our selection of affordable HDTV BNC connectors offer more bandwidth, more performance, and are easier to use.

Our new technologically advanced high-speed composite BNC 75Ω HDTV connector features an incredible easy-to-use two-piece design that makes it easy to crimp on the cable. This new connector can handle data rates up to 3 Gbps or higher while meeting or exceeding SMPTE 292M and 424M standards. The gold plated center and outer contacts provide outstanding electrical performance with a frequency range of up to 6 GHz, and a low return loss of -32 dB at 3 GHz.

The connector comes in a wide variety of colors for signal cable identification and its special curved interface composite material design with positioning marks makes it easy and fast to connect in high-density and recessed bulkhead applications.

### APPLICATIONS

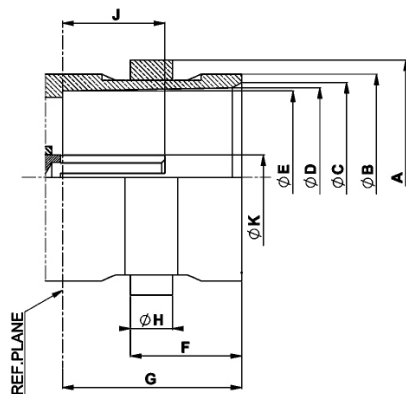
- Broadcast TV stations and studios
- Video routing and production
- Video surveillance equipment
- Video conference equipment



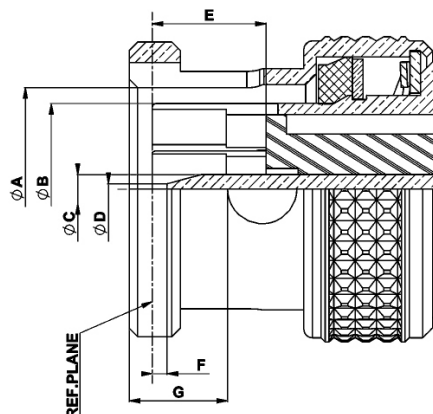
# BNC 75 HDTV/BNC 50Ω

## Interface BNC 75 HDTV

### JACK



### PLUG

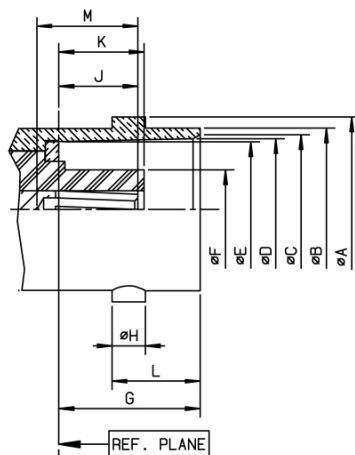


| Letter | mm    |       | inch |      |
|--------|-------|-------|------|------|
|        | min.  | max.  | min. | max. |
| A      | 10.97 | 11.07 | .432 | .436 |
| B      | 9.60  | 9.67  | .378 | .381 |
| C      | 8.80  | 9.00  | .346 | .354 |
| D      | 8.32  | 8.46  | .328 | .333 |
| E      | 8.10  | 8.15  | .319 | .321 |
| F      | 5.18  | 5.28  | .204 | .208 |
| G      | 8.30  | 8.50  | .327 | .335 |
| H      | 1.90  | 2.06  | .075 | .081 |
| J      | 4.72  | 5.22  | .186 | .206 |
| K      | 2.10  | 2.14  | .083 | .084 |

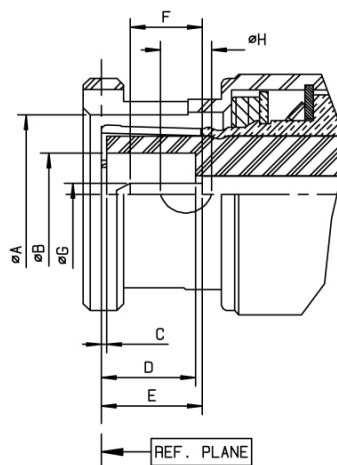
| Letter | mm   |      | inch |      |
|--------|------|------|------|------|
|        | min. | max. | min. | max. |
| A      | 9.80 | 9.90 | .386 | .390 |
| B      | 8.30 | 8.40 | .327 | .331 |
| C      | 1.32 | 1.37 | .052 | .054 |
| D      | 0.35 | 0.65 | .014 | .026 |
| E      | 5.30 | 5.50 | .209 | .217 |
| F      | 0.10 | 0.90 | .004 | .035 |
| G      | 4.57 | 4.67 | .180 | .184 |

## Interface BNC 50Ω

### JACK



### PLUG

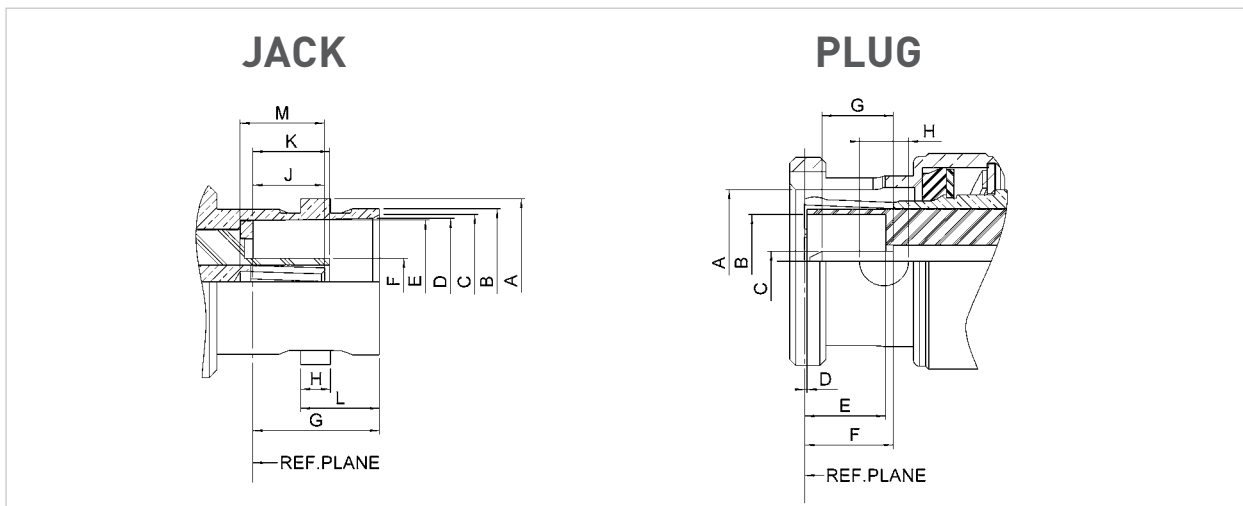


## Interface BNC 50Ω

| Letter | mm    |       | inch |      |
|--------|-------|-------|------|------|
|        | min.  | max.  | min. | max. |
| A DIA  | 10.97 | 11.07 | .432 | .436 |
| B DIA  | 9.60  | 9.70  | .378 | .382 |
| C DIA  | 8.79  | 9.04  | .346 | .356 |
| D DIA  | 8.31  | 8.46  | .327 | .333 |
| E DIA  | 8.10  | 8.15  | .319 | .321 |
| F DIA  | -     | 4.72  | -    | .186 |
| G      | 8.31  | 8.51  | .327 | .335 |
| H      | 1.91  | 2.06  | .075 | .081 |
| J      | 4.72  | 5.23  | .186 | .206 |
| K      | 4.78  | 5.28  | .188 | .208 |
| L      | 5.18  | 5.28  | .204 | .208 |
| M      | 4.95  | -     | .195 | -    |

| Letter | mm   |      | inch |      |
|--------|------|------|------|------|
|        | min. | max. | min. | max. |
| A DIA  | 9.78 | 9.91 | .385 | .390 |
| B DIA  | 4.83 | -    | .190 | -    |
| C      | 0.15 | -    | .006 | -    |
| D      | 5.28 | 5.79 | .208 | .228 |
| E      | 5.33 | 5.84 | .210 | .230 |
| F      | 1.98 | -    | .078 | -    |
| G DIA  | 1.32 | 1.37 | .052 | .054 |
| H DIA  | 2.31 | 2.46 | .091 | .097 |

## Interface BNC 75Ω



| Letter | mm    |       | inch |      |
|--------|-------|-------|------|------|
|        | min.  | max.  | min. | max. |
| A DIA  | 10.97 | 11.07 | .432 | .436 |
| B DIA  | 9.60  | 9.67  | .378 | .381 |
| C DIA  | 8.80  | 9.00  | .347 | .354 |
| D DIA  | 8.32  | 8.46  | .328 | .333 |
| E DIA  | 8.10  | 8.15  | .319 | .321 |
| F DIA  | 4.62  | 4.72  | .182 | .186 |
| G      | 8.30  | 8.50  | .326 | .334 |
| H      | 1.90  | 2.06  | .074 | .081 |
| J      | 4.72  | 5.22  | .186 | .205 |
| K      | 4.98  | 5.23  | .196 | .206 |
| L      | 5.18  | 5.28  | .204 | .208 |
| M      | 5.30  | 5.90  | .209 | .232 |

| Letter | mm   |      | inch |      |
|--------|------|------|------|------|
|        | min. | max. | min. | max. |
| A DIA  | 9.80 | 9.90 | .386 | .389 |
| B DIA  | 6.10 | 6.30 | .240 | .248 |
| C DIA  | 1.32 | 1.37 | .052 | .054 |
| D      | 0.05 |      | .002 |      |
| E      | 5.42 | 5.78 | .213 | .227 |
| F      | 5.35 | 5.87 | .211 | .231 |
| G      | 3.00 | 3.40 | .118 | .134 |
| H DIA  | 3.15 | 3.35 | .124 | .132 |

BNC 50Ω/BNC 75Ω

## Characteristics

## ELECTRICAL CHARACTERISTICS

| Frequency range                 | DC - 6 GHz (optimized at 3 GHz) |             |           |
|---------------------------------|---------------------------------|-------------|-----------|
| Impedance                       | 75Ω                             |             |           |
| V.S.W.R. (max)                  | DC - 1.5 GHz                    | 1.5 - 3 GHz | 3 - 6 GHz |
| • Interface (plug + jack)       | 1.02                            | 1.05        | 1.08      |
| • Mated pair                    | 1.05                            | 1.12        | 1.25      |
| • In series adapters            | 1.04                            | 1.07        | 1.12      |
| Working voltage                 | 500 Vrms                        |             |           |
| Dielectric withstanding voltage | 1500 Vrms                       |             |           |
| RF Leakage @ 1 GHz              | 75 dB                           |             |           |
| RF Leakage @ 3 GHz              | 60 dB                           |             |           |
| RF Leakage @ 6 GHz              | 50 dB                           |             |           |

## MECHANICAL CHARACTERISTICS

|                                       |                                                        |
|---------------------------------------|--------------------------------------------------------|
| Mating                                | Intermateable with 50Ω and 75Ω standard BNC connectors |
| Long life duration (mating endurance) | 1000 cycles                                            |
| Engagement force                      | 13.6 N                                                 |
| Mating torque (bayonet)               | 28.6 N.cm                                              |
| Coupling nut retention force          | Axial force: 450 N<br>Bending stress: 1000 N.cm        |
| Center contact insertion force        | 10 N max                                               |
| Vibration                             | MIL STD 202 Meth.204 cond B                            |

## ENVIRONMENTAL CHARACTERISTICS

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Temperature range    | -65°C + 165°C                                        |
| Moisture resistance  | MIL STD 202, Meth. 106<br>CECC 22000 paragraph 4.6.6 |
| Corrosion resistance | MIL STD 202, Meth. 101 cond B (48 hours salt spray)  |

## MATERIALS AND PLATING

| Components     | Materials                 | Platings        |
|----------------|---------------------------|-----------------|
| Body           | Brass                     | NPGR/BBR/Nickel |
| Center contact | Brass or Beryllium copper | NPGR            |
| Outer contact  | Brass                     | NPGR            |
| Insulator      | PTFE                      |                 |
| Gasket         | Silicone Rubber           |                 |

## Composite version

## CHARACTERISTICS

|                   |                                 |
|-------------------|---------------------------------|
| Frequency range   | DC up to 6GHz                   |
| Impedance         | 75 Ω                            |
| VSWR              | 1.05 @ 3GHz (Return loss -32dB) |
| Mating Cycles     | 1000                            |
| Temperature Range | -40 °C ~ + 85 °C                |

## MATERIAL AND PLATING

| Parts          | Materials | Plating |
|----------------|-----------|---------|
| Coupling Nut   | Composite |         |
| Body           | Brass     | Gold    |
| Outer contact  | Brass     | Gold    |
| Center Contact | Brass     | Gold    |
| Insulator      | PTFE      |         |

## Characteristics

| Test / Characteristics | Standard reference | Values / Remarks |
|------------------------|--------------------|------------------|
|------------------------|--------------------|------------------|

## ELECTRICAL CHARACTERISTICS

|                                                                                                                                       |                           |                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------|
| Impedance                                                                                                                             |                           | 50Ω                                                                  |
| Frequency range                                                                                                                       |                           | DC - 4 GHz                                                           |
| Typical V.S.W.R.<br>• Straight models cable groupe: 2/50, 2.6/50, 5/50, 10 + 11/50, .141"<br>• Right angle models: 2/50, 2.6/50, 5/50 | 1 GHz<br>1.12<br><br>1.13 | 2.5 GHz<br>1.18<br>1.30 max<br>1.20<br><br>4 GHz<br>1.22<br><br>1.22 |
| Insertion loss<br>• Straight connector<br>• Right-angle connector                                                                     | 0.05<br>0.08              | 0.07<br>0.16<br><br>0.13<br>0.20                                     |
| RF leakage                                                                                                                            |                           | -55 dB min from 2 to 3 GHz                                           |
| Insulation resistance                                                                                                                 |                           | 5000 MΩ min                                                          |
| Contact resistance<br>• Center contact<br>• Outer contact                                                                             | MIL                       | 1.5 mΩ<br>0.2 mΩ                                                     |
| Working voltage in VRMS<br>• At sea level<br>(at 21 000m)                                                                             |                           | 500<br>125                                                           |
| Dielectric withstanding voltage in VRMS<br>• At sea level<br>(at 21 000m)                                                             |                           | 1500<br>375                                                          |
| RF testing voltage in VRMS      Sea level (5 MHz)                                                                                     |                           | 1000                                                                 |

## MECHANICAL CHARACTERISTICS

|                                                                                            |     |                        |
|--------------------------------------------------------------------------------------------|-----|------------------------|
| Durability                                                                                 |     | 500 matings            |
| Force to engage and disengage<br>• Axial<br>• Torque                                       |     | 13.6 N max<br>28.6 Ncm |
| Coupling nut retention force                                                               |     | 445 N                  |
| Cable retention force<br>• Cable 2/50, 2.6/50<br>• Cable 5/50, 10 + 11/50<br>• Cable .141" | MIL | 227 N                  |
| Center contact retention force                                                             |     | 27.2 N                 |

## ENVIRONMENTAL CHARACTERISTICS

|                                                               |  |                                                                                                                                    |
|---------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range<br>• Flexible cables<br>• Semi-rigid cables |  | -65°C + 165°C<br>-65°C + 105°C                                                                                                     |
| Thermo cycling test                                           |  | MIL STD 202, method 107, condition B                                                                                               |
| Thermal shock                                                 |  | MIL STD 202, method 107, condition B                                                                                               |
| High temperature endurance                                    |  | MIL STD 202, method 108                                                                                                            |
| Corrosion salt spray                                          |  | MIL STD 202, method 101, condition B                                                                                               |
| Vibration                                                     |  | MIL STD 202, method 204, condition B                                                                                               |
| Shock                                                         |  | MIL STD 202, method 213, condition G                                                                                               |
| Moisture resistance                                           |  | MIL STD 202, method 106                                                                                                            |
| Hermetic test                                                 |  | MIL STD 202, method 112, condition C<br>vacuum 10 <sup>-6</sup> Hgmm (Torr) leakage rate < 10 <sup>-6</sup> atm/cm <sup>3</sup> /s |
| Barometric pressure                                           |  | Pressure test: 3.5 bars; duration: 2 mn; temperature: 15°C to 25°C                                                                 |

## MATERIALS AND PLATING

|                                      | Materials                                                    | Platings     |
|--------------------------------------|--------------------------------------------------------------|--------------|
| Bodies                               | Brass                                                        | Nickel / BBR |
| Center contact<br>• Male<br>• Female | Brass<br>Bronze or heat treated beryllium following QQ-C-530 | Gold         |
| Nut                                  | Brass                                                        |              |
| Insulator                            | PTFE                                                         |              |
| Gasket                               | Silicon Rubber                                               |              |

All dimensions are given in mm.

Go online for data sheets &amp; assembly instructions.

Visit [www.radiall.com](http://www.radiall.com) and enter the part number.



## Characteristics

| Test / Characteristics | Standard reference | Values / Remarks |
|------------------------|--------------------|------------------|
|------------------------|--------------------|------------------|

## ELECTRICAL CHARACTERISTICS

|                                                                                                                                                               |                   |                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------|
| Impedance                                                                                                                                                     |                   | 75Ω                                        |
| Frequency range                                                                                                                                               |                   | DC - 1.5 GHz                               |
| V.S.W.R. max                                                                                                                                                  |                   | 1.30                                       |
| <ul style="list-style-type: none"> <li>Straight models cable group: 2.6/75, 5/75, 6/75, 8/75, 10 + 11/75</li> <li>Right angle models: 2.6/75, 6/75</li> </ul> |                   | 1.35                                       |
| Insertion loss                                                                                                                                                |                   | 0.2 dB max at 1 GHz<br>0.3 dB max at 1 GHz |
| <ul style="list-style-type: none"> <li>Straight connector</li> <li>Right-angle connector</li> </ul>                                                           |                   |                                            |
| RF leakage                                                                                                                                                    |                   | -55 dB min from 2 to 3 GHz                 |
| Insulation resistance                                                                                                                                         |                   | 5000 MΩ min                                |
| Contact resistance                                                                                                                                            |                   | 1.5 mΩ<br>0.2 mΩ                           |
| <ul style="list-style-type: none"> <li>Center contact</li> <li>Outer contact</li> </ul>                                                                       | MIL               |                                            |
| Working voltage in VRMS                                                                                                                                       |                   | 500<br>125                                 |
| <ul style="list-style-type: none"> <li>At sea level (at 21 000m)</li> </ul>                                                                                   |                   |                                            |
| Dielectric withstanding voltage in VRMS                                                                                                                       |                   | 1500<br>375                                |
| <ul style="list-style-type: none"> <li>At sea level (at 21 000m)</li> </ul>                                                                                   |                   |                                            |
| RF testing voltage in VRMS                                                                                                                                    | Sea level (5 MHz) | 1000                                       |

## MECHANICAL CHARACTERISTICS

|                                                                         |                                              |                        |
|-------------------------------------------------------------------------|----------------------------------------------|------------------------|
| Durability                                                              |                                              | 500 matings            |
| Force to engage and disengage                                           |                                              | 13.6 N max<br>28.6 Ncm |
| <ul style="list-style-type: none"> <li>Axial</li> <li>Torque</li> </ul> | MIL                                          |                        |
| Coupling nut retention force                                            |                                              | 445 N                  |
| Cable retention force                                                   | Cable 2.6/75, 5/75<br>6/75, 8/75, 10 + 11/75 | 340 N                  |
| Center contact retention force                                          |                                              | 27 N                   |

## ENVIRONMENTAL CHARACTERISTICS

|                            |                 |                                                                    |
|----------------------------|-----------------|--------------------------------------------------------------------|
| Temperature range          | flexible cables | -65°C + 165°C                                                      |
| Thermo cycling test        |                 | MIL STD 202, method 107, condition B                               |
| High temperature endurance |                 | MIL STD 202, method 108                                            |
| Corrosion salt spray       |                 | MIL STD 202, method 101, condition B                               |
| Vibration                  |                 | MIL STD 202, method 204, condition B                               |
| Shock                      |                 | MIL STD 202, method 213, condition G                               |
| Moisture resistance        |                 | MIL STD 202, method 106                                            |
| Barometric pressure        |                 | Pressure test: 3.5 bars; duration: 2 mn; temperature: 15°C to 25°C |

## MATERIALS AND PLATING

|                                                                        | Materials                                                    | Platings |
|------------------------------------------------------------------------|--------------------------------------------------------------|----------|
| Bodies                                                                 | Brass                                                        | Nickel   |
| Center contact                                                         |                                                              |          |
| <ul style="list-style-type: none"> <li>Male</li> <li>Female</li> </ul> | Brass<br>Bronze or heat treated beryllium following QQ-C-530 | Gold     |
| Nut                                                                    | Brass                                                        |          |
| Insulator                                                              | PTFE                                                         |          |
| Gasket                                                                 | Silicone Rubber                                              |          |

Standard packaging = 100 pieces

Go online for data sheets &amp; assembly instructions.

Visit [www.radiall.com](http://www.radiall.com) and enter the part number.

## Characteristics

## Commercial version R141 XXX 161 and R142 XXX161

## ELECTRICAL CHARACTERISTICS

|                            | R141 XXX 161                                            | R142 XXX 161         |
|----------------------------|---------------------------------------------------------|----------------------|
| Impedance                  | 50Ω                                                     | 75Ω                  |
| Operating frequency        | DC to 1.5 GHz                                           |                      |
| Typical V.S.W.R. (1.5 GHz) |                                                         |                      |
| • Straight models          | $\varnothing 2.6$<br>$\varnothing 5$<br>$\varnothing 6$ | 1.21<br>1.14<br>1.05 |
| • Right angle models       | $\varnothing 5$ & $\varnothing 6$                       | 1.17                 |
| Testing voltage (VRMS)     | 1500                                                    |                      |
| Operating voltage (VRMS)   | 500                                                     |                      |
| Insulation resistance (MΩ) | 5000                                                    |                      |
| Contact resistance (mΩ)    | 10                                                      |                      |

## MECHANICAL CHARACTERISTICS

|            |             |
|------------|-------------|
| Durability | 100 matings |
|------------|-------------|

## ENVIRONMENTAL CHARACTERISTICS

|                   |              |
|-------------------|--------------|
| Temperature range | -40°C + 85°C |
|-------------------|--------------|

## MATERIALS AND PLATING

|                                 | Materials     | Platings |
|---------------------------------|---------------|----------|
| Male and female bodies          | Brass         | Nickel   |
| Coupling nut                    | Die cast zinc |          |
| Outer contact                   | Brass         |          |
| Insulators                      | Polypropylene |          |
| Male and female center contacts | Brass         | Gold     |

## ECO version R141A XXX XXX and R142A XXX XXX

## ELECTRICAL CHARACTERISTICS

|                                    | R141A XXX XXX     | R142A XXX XXX |
|------------------------------------|-------------------|---------------|
| Impedance                          | 50Ω               | 75Ω           |
| Frequency range                    | DC - 1 GHz        |               |
| Typical V.S.W.R. (straight models) | 1.3 at 1 GHz      |               |
| Temperature range                  | -40°C / +85°C     |               |
| Durability                         | 100 mating cycles |               |

## MATERIALS AND PLATING

|                        | Materials           | Platings                            |
|------------------------|---------------------|-------------------------------------|
| Connector body         | Brass/Die cast zinc | Nickel                              |
| Insulators             | PTFE/Polypropylene  |                                     |
| Female center contacts | Phosphor bronze     | Gold 0.1μm typical (Center contact) |

## PACKAGING

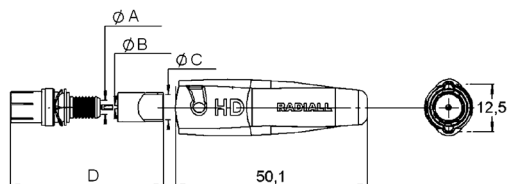
|           |                                   |
|-----------|-----------------------------------|
| Packaging | 100 pieces bulk<br>Unit packaging |
|-----------|-----------------------------------|

Standard packaging = 100 pieces

All dimensions are given in mm.

## Plugs

## STRAIGHT PLUGS CRIMP TYPE FOR FLEXIBLE CABLES



| Cable group                                                               | Cable group dia. | Part number  | Color  | Dimensions |      |      |      |
|---------------------------------------------------------------------------|------------------|--------------|--------|------------|------|------|------|
|                                                                           |                  |              |        | A          | B    | C    | D    |
| Mini RG59<br>Belden 1855A,<br>DRAKA 0.6/2.8<br>CAE HD 0628                | 0.6/2.8          | R142 079 750 | Black  | 2.85       | 0.65 | 5.42 | 26.7 |
|                                                                           |                  | R142 079 751 | Red    |            |      |      |      |
|                                                                           |                  | R142 079 752 | Green  |            |      |      |      |
|                                                                           |                  | R142 079 753 | Blue   |            |      |      |      |
|                                                                           |                  | R142 079 754 | Yellow |            |      |      |      |
|                                                                           |                  | R142 079 755 | Grey   |            |      |      |      |
|                                                                           |                  | R142 079 756 | White  |            |      |      |      |
|                                                                           |                  | R142 079 757 | Brown  |            |      |      |      |
|                                                                           |                  | R142 079 758 | Orange |            |      |      |      |
|                                                                           |                  | R142 079 759 | Violet |            |      |      |      |
| RG59<br>BELDEN 1505A<br>DRAKA 0.8/3.7<br>ARGOSY Image 720<br>CAE HD 08370 | 0.8/3.7          | R142 079 760 | Black  | 3.75       | 0.85 | 6.6  | 25.7 |
|                                                                           |                  | R142 079 761 | Red    |            |      |      |      |
|                                                                           |                  | R142 079 762 | Green  |            |      |      |      |
|                                                                           |                  | R142 079 763 | Blue   |            |      |      |      |
|                                                                           |                  | R142 079 764 | Yellow |            |      |      |      |
|                                                                           |                  | R142 079 765 | Grey   |            |      |      |      |
|                                                                           |                  | R142 079 766 | White  |            |      |      |      |
|                                                                           |                  | R142 079 767 | Brown  |            |      |      |      |
|                                                                           |                  | R142 079 768 | Orange |            |      |      |      |
|                                                                           |                  | R142 079 769 | Violet |            |      |      |      |
| RG6<br>BELDEN 1694A<br>DRAKA 1.0/4.8<br>ARGOSY Image 1000<br>CAE 10460    | 1.0/4.8          | R142 079 770 | Black  | 4.85       | 1.05 | 7.1  | 23.7 |
|                                                                           |                  | R142 079 771 | Red    |            |      |      |      |
|                                                                           |                  | R142 079 772 | Green  |            |      |      |      |
|                                                                           |                  | R142 079 773 | Blue   |            |      |      |      |
|                                                                           |                  | R142 079 774 | Yellow |            |      |      |      |
|                                                                           |                  | R142 079 775 | Grey   |            |      |      |      |
|                                                                           |                  | R142 079 776 | White  |            |      |      |      |
|                                                                           |                  | R142 079 777 | Brown  |            |      |      |      |
|                                                                           |                  | R142 079 778 | Orange |            |      |      |      |
|                                                                           |                  | R142 079 779 | Violet |            |      |      |      |

## Plugs

## STRAIGHT PLUGS CRIMP TYPE FOR FLEXIBLE CABLES

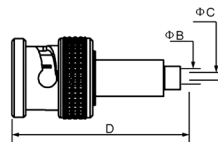


Fig. 1

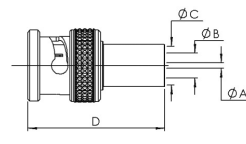
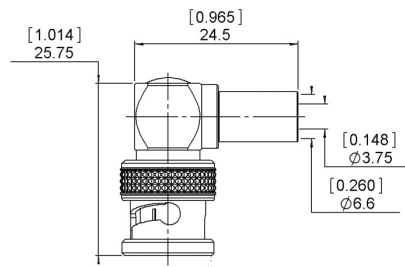


Fig. 2

| Cable group                                                            | Cable group dia. | Part number  | Fig. | Dimensions mm (inch) |            |            |              | Packaging | Note                           |
|------------------------------------------------------------------------|------------------|--------------|------|----------------------|------------|------------|--------------|-----------|--------------------------------|
|                                                                        |                  |              |      | A                    | B          | C          | D            |           |                                |
| RD179<br>BELDEN179DT, DRAKA0.31/1.45 AF, CAE HD 03140                  | 0.3/1.4          | R142 077 742 | 1    |                      | 1.55       | 0.4        | 29.7         | 100       |                                |
| Mini RG59<br>Belden 1855A, Draka 0.6/2.8 AF, CAE HD 0628               | 0.6/2.8          | R142 077 702 | 2    | 0.85 [.03]           | 2.85 [.11] | 5.42 [.21] | 27.68 [1.09] | 100       |                                |
| Mini RG59<br>Argosy Image 360                                          | 0.6/2.95         | R142 077 712 |      |                      | 3.00 [.12] |            |              |           |                                |
| RG59<br>Belden 1505A, Draka 0.8/3.7 AF, CAE HD 08370, Argosy Image 720 | 0.8/3.7          | R142 077 722 |      |                      | 3.75 [.15] | 6.60 [.26] | 26.68 [1.05] |           |                                |
|                                                                        |                  | R142 085 702 |      | 0.90                 | 3.95       | 6.60       | 28.68        |           | Hexagonal crimp tool 1.73/6.48 |
| RG6<br>Belden 1694A, Draka 1.0/4.8 AF, CAE HD 10460, Argosy Image 1000 | 1.0/4.8          | R142 077 732 |      | 1.05 [.04]           | 4.85 [.19] | 7.50 [.30] | 26.68 [1.05] |           |                                |
| RG11<br>Belden 7731, Draka 1.6/7.3 AF, CAE HD16720, Argosy Image 2000  | 1.6/7.3          | R142 077 747 |      | 1.70                 | 7.45       | 11.05      | 32           |           |                                |

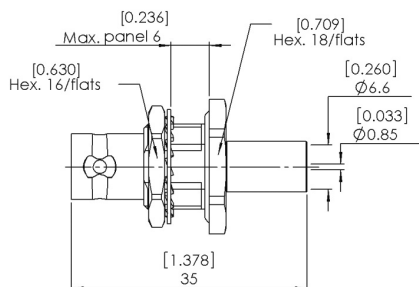
## RIGHT ANGLE PLUG CRIMP TYPE FOR FLEXIBLE CABLE



| Cable group                                                            | Cable group dia. | Part number  | Packaging |
|------------------------------------------------------------------------|------------------|--------------|-----------|
| RG59<br>Belden 1505A, Draka 0.8/3.7 AF, CAE HD 08370, Argosy Image 720 | 0.8/3.7          | R142 187 720 | 100       |

## Jacks and receptacles

## STRAIGHT BULKHEAD JACK CRIMP TYPE FOR FLEXIBLE CABLE



| Cable group                                                               | Cable group dia. | Part number  | Panel drilling | Packaging |
|---------------------------------------------------------------------------|------------------|--------------|----------------|-----------|
| RG59<br>Belden 1505A, Draka 0.8/3.7 AF,<br>CAE HD 08370, Argosy Image 720 | 0.8/3.7          | R142 334 700 | P16            | 100       |

## PCB FEMALE RECEPTACLES

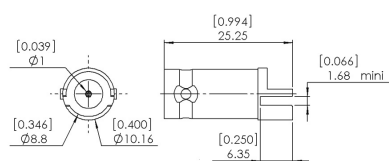


Fig. 1

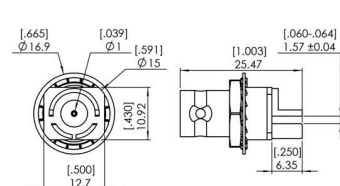


Fig. 2

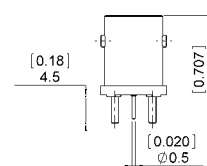
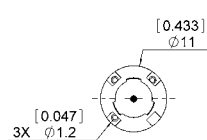
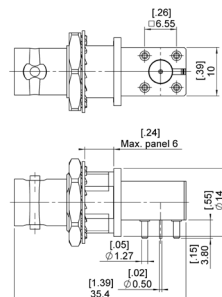


Fig. 3

| Part number  | Fig. | Captive center contact | Panel drilling | Packaging | Note                    |
|--------------|------|------------------------|----------------|-----------|-------------------------|
| R142 568 703 | 1    | yes                    |                | 100       | Edge mount PCB          |
| R142 567 703 | 2    |                        |                |           | Bulkhead Edge mount PCB |
| R142 500 740 | 3    |                        | P20            | 60        | Straight PCB, Zamak     |

## RIGHT ANGLE PCB FEMALE RECEPTACLES



| Part number  | Captive center contact | Note     |
|--------------|------------------------|----------|
| R142 676 700 | yes                    | Bulkhead |

Adapters

IN SERIES ADAPTERS

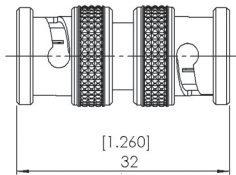


Fig. 1

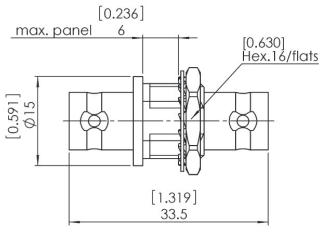


Fig. 2

| Part number  | Fig. | Captive center contact | Panel drilling | Note          | Packaging |
|--------------|------|------------------------|----------------|---------------|-----------|
| R142 703 703 | 1    | yes                    |                | male-male     | 100       |
| R142 720 700 | 2    |                        | P16            | female-female |           |

BETWEEN SERIES ADAPTERS

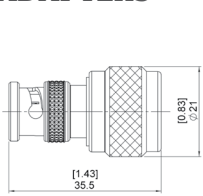


Fig. 1

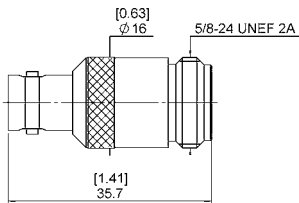


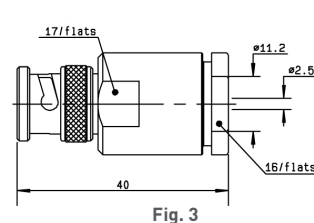
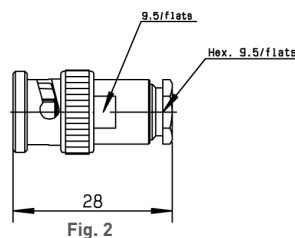
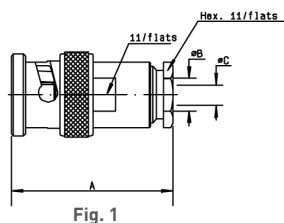
Fig. 2

| Part number  | Fig. | Captive center contact | Note                     |
|--------------|------|------------------------|--------------------------|
| R192 417 010 | 1    | yes                    | BNC HD male - N male     |
| R192 418 010 | 2    |                        | BNC HD female - N female |

BNC 75 HDTV

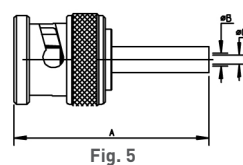
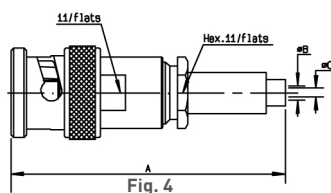
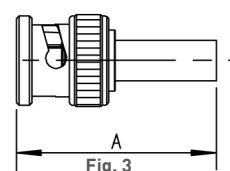
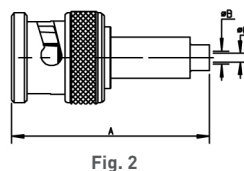
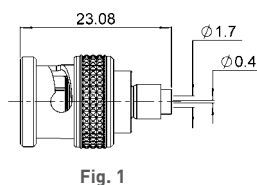
## Straight plugs

## STRAIGHT PLUGS CLAMP TYPE



| Cable group                          | Cable group dia. | Part number  | Fig. | Dimensions (mm) |      |      | Captive center contact | Note             |
|--------------------------------------|------------------|--------------|------|-----------------|------|------|------------------------|------------------|
|                                      |                  |              |      | A               | B    | C    |                        |                  |
| RG178 / RG196                        | 2/50/S + D       | R141 003 000 | 1    | 27              | 2.2  | 0.6  | yes                    |                  |
| RG174 / RG316 / RD316 / RG179        | 2.6/50+75/S+D    | R141 004 000 |      |                 | 3.1  |      |                        |                  |
| PPD Cable                            | 3.5/50           | R141 005 000 | 2    | 28              | 3.7  | 1.2  | no                     |                  |
| RG58 / RG141                         | 5/50/S           | R141 007 000 |      |                 |      |      |                        |                  |
|                                      |                  | R141 007 161 | 1    | 28              | 5.6  | 1.2  | yes                    |                  |
| RG58 / RG141 / RG142 / RG223 / RG400 | 5/50/S + D       | R141 008 000 |      |                 |      |      |                        |                  |
|                                      |                  | R141 009 000 |      | 28              | 5.6  | 1.05 | no                     |                  |
|                                      |                  | R141 010 000 |      |                 |      |      |                        |                  |
| RG59 / RG62                          | 6/75+93          | R141 012 000 | 3    | 27.5            | 6.6  | 1.05 | yes                    |                  |
| RG213 / RG393 / RG214 / RG216        | 10 + 11/50/S + D | R141 018 000 | 3    |                 |      |      | yes                    |                  |
| RG402                                | .141"            | R141 052 000 | 1    | 29              | 3.65 | 1.2  | no                     | Semi-rigid cable |

## STRAIGHT PLUGS FULL CRIMP TYPE FOR FLEXIBLE CABLES



| Cable group           | Cable group dia. | Part number   | Fig. | Dimensions (mm) |     |      | Captive center contact | Note                                    |
|-----------------------|------------------|---------------|------|-----------------|-----|------|------------------------|-----------------------------------------|
|                       |                  |               |      | A               | B   | C    |                        |                                         |
| RG178 / RG196         | 2/50/S           | R141 070 520  | 1    | 23              | 1.7 | 0.4  | yes                    | Reverse crimp                           |
| RG174 / RG316         | 2.6/50/S         | R141 075 000  | 2    | 30.3            | 1.8 | 0.6  |                        |                                         |
|                       |                  | R141 075 161  |      |                 |     |      |                        | Commercial version                      |
|                       |                  | R141A 075 161 | 3    | 26              | 1.7 | 0.6  |                        | Single piece body<br>ECO version        |
|                       | 3.8/93/S         | R141 077 000  | 2    | 28              | 2.7 | 0.4  |                        |                                         |
| RG58 / RG14           | 5/50/S           | R141 072 000  | 4    | 39              | 3.1 |      |                        |                                         |
|                       |                  | R141 082 000  | 5    | 28              |     |      |                        | Single piece body                       |
|                       |                  | R141 082 161  | 3    |                 |     |      |                        | Single piece body<br>Commercial version |
|                       |                  | R141A 082 161 |      | 30              | 3.1 | 1    |                        | ECO version                             |
| RG142 / RG223 / RG400 | 5/50/D           | R141 083 000  | 5    | 28              | 3   | 1.05 |                        | Single piece body                       |

## Right angle plugs and straight jacks

## RIGHT ANGLE PLUGS CLAMP TYPE FOR FLEXIBLE CABLES

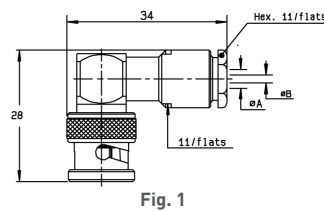


Fig. 1

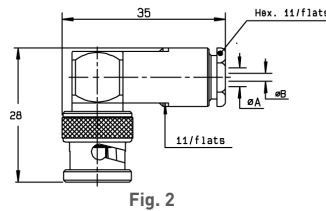


Fig. 2

| Cable group                          | Cable group dia. | Part number  | Fig. | Dimensions (mm) |      | Captive center contact | Note           |
|--------------------------------------|------------------|--------------|------|-----------------|------|------------------------|----------------|
|                                      |                  |              |      | A               | B    |                        |                |
| RG178 / RG196                        | 2/50             | R141 153 000 | 1    | 2.2             | 0.6  | yes                    | 100 pieces     |
| RG174 / RG316 / RD316 / RG179        | 2.6/50+75/S+D    | R141 154 000 |      | 3.1             |      |                        |                |
| RG58 / RG141 / RG142 / RG223 / RG400 | 5/50/S + D       | R141 156 000 | 2    | 5.6             | 1.05 |                        | Unit packaging |

## RIGHT ANGLE PLUGS FULL CRIMP TYPE FOR FLEXIBLE CABLES

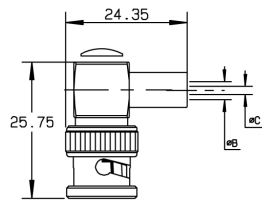


Fig. 1

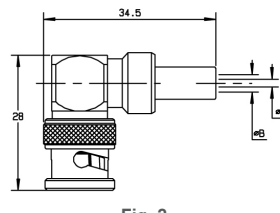


Fig. 2

| Cable group           | Cable group dia. | Part number  | Fig. | Dimensions (mm) |      | Captive center contact | Note               |
|-----------------------|------------------|--------------|------|-----------------|------|------------------------|--------------------|
|                       |                  |              |      | B               | C    |                        |                    |
| RG174 / RG316         | 2.6/50/S         | R141 181 161 | 1    | 3.25            | 1.7  | yes                    | Commercial version |
|                       |                  | R141 182 000 | 2    | 5.5             | 1.05 |                        | Single piece body  |
| RG58 / RG141          | 5/50/S           | R141 182 161 | 1    | 5.5             | 3.15 |                        | Commercial version |
|                       |                  | R141 182 177 | 2    | 5.55            | 3.2  |                        | Non magnetic       |
| RG142 / RG223 / RG400 | 5/50/D           | R141 183 000 |      | 5.8             | 1.05 |                        | Single piece body  |

## STRAIGHT JACKS FOR FLEXIBLE CABLES

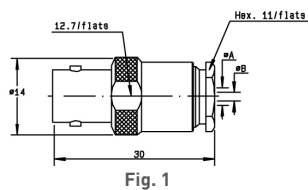


Fig. 1

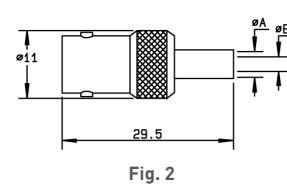


Fig. 2

| Cable group                          | Cable group dia. | Part number  | Fig. | Dimensions (mm) |      | Captive center contact | Note                                |
|--------------------------------------|------------------|--------------|------|-----------------|------|------------------------|-------------------------------------|
|                                      |                  |              |      | A               | B    |                        |                                     |
| RG58 / RG141 / RG142 / RG223 / RG400 | 5/50/S + D       | R141 207 000 | 1    | 5.6             | 1.05 | no                     | Clamp type                          |
|                                      |                  | R141 208 000 |      |                 |      |                        |                                     |
| RG174 / RG316                        | 2.6/50/S         | R141 217 000 | 2    | 5.5             | 1.05 | yes                    | Full crimp type                     |
| RG58 / RG141                         | 5/50/S           | R141 237 000 |      |                 |      |                        | Single piece body, full crimp type  |
|                                      |                  | R141 237 161 |      |                 |      |                        | Commercial version, full crimp type |
| RG142 / RG223 / RG400                | 5/50/D           | R141 220 000 |      |                 |      |                        | Single piece body, full crimp type  |



## Square flange jacks

### STRAIGHT SQUARE FLANGE JACKS CLAMP TYPE FOR FLEXIBLE CABLES

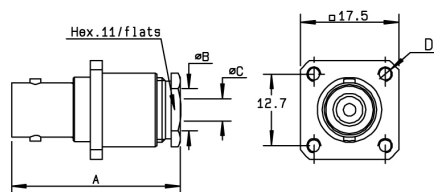


Fig. 1

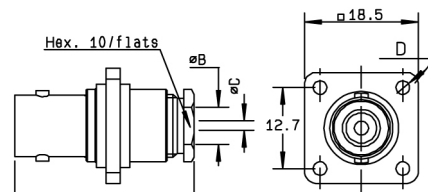


Fig. 2

| Cable group                          | Cable group dia. | Part number  | Fig. | Dimensions (mm) |     |      |             | Captive center contact | Panel drilling | Note             |
|--------------------------------------|------------------|--------------|------|-----------------|-----|------|-------------|------------------------|----------------|------------------|
|                                      |                  |              |      | A               | B   | C    | D           |                        |                |                  |
| RG178 / RG196                        | 2/50/S + D       | R141 253 000 | 1    | 29.5            | 2.2 | 0.6  | 3-56-UNF-2B | yes                    | P01            |                  |
| RG174 / RG316 / RD316 / RG179        | 2.6/50+75/S+D    | R141 254 000 |      |                 | 3.1 |      |             |                        | P02            |                  |
|                                      |                  | R141 278 000 |      |                 |     |      |             |                        | P01            | Insulated flange |
| RG58 / RG141                         | 5/50/S           | R141 257 000 | 1    | 30              | 5.6 | 1.05 | 2.5         | no                     | P01            |                  |
|                                      |                  | R141 256 000 | 2    |                 | 5.6 | 1.05 | 2.6         |                        | P02            | Insulated flange |
| RG58 / RG141 / RG142 / RG223 / RG400 | 5/50/S + D       | R141 258 000 | 1    | 30              | 5.6 | 1.05 | 3-56-UNF-2B |                        | P01            | Unit packaging   |
| RG59                                 | 6/75             | R141 261 000 |      | 30              | 6.5 | 1    | 2.5         |                        | P10            |                  |

### STRAIGHT SQUARE FLANGE JACKS FULL CRIMP TYPE FOR FLEXIBLE CABLES

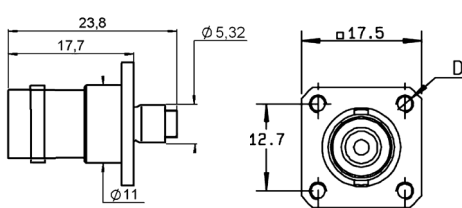


Fig. 1

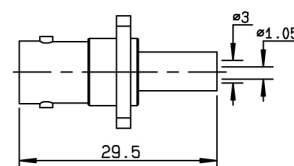


Fig. 2

| Cable group   | Cable group dia. | Part number  | Fig. | Dimensions D (mm) | Captive center contact | Panel drilling | Note                             |
|---------------|------------------|--------------|------|-------------------|------------------------|----------------|----------------------------------|
| RG174 / RG316 | 2.6/50           | R141 290 200 | 1    | M3 x 0.5          | yes                    | P04            | Reverse crimping, Unit packaging |
| RG58 / RG141  | 5/50/S           | R141 292 000 | 2    | 3 x 56 UNEF 2B    |                        | P17            | Single piece body                |

## Bulkhead jacks

## STRAIGHT BULKHEAD JACKS CLAMP TYPE

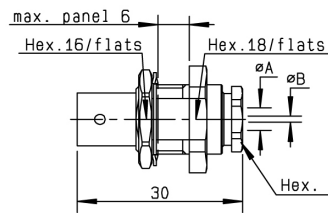


Fig. 1

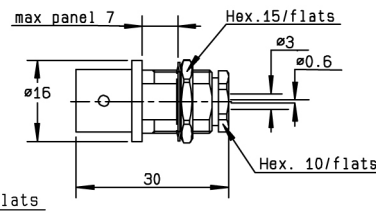


Fig. 2

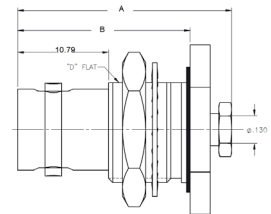


Fig. 3

| Cable group                          | Cable group dia. | Part number   | Fig. | Dimensions (mm) |       | Captive center contact | Panel drilling | Note                       |
|--------------------------------------|------------------|---------------|------|-----------------|-------|------------------------|----------------|----------------------------|
|                                      |                  |               |      | A               | B     |                        |                |                            |
| RG178 / RG196                        | 2/50/S           | R141 323 000  | 1    | 2.2             | 0.6   | yes                    | P11            | Panel sealed               |
| RG174 / RG316 / RD316 / RG179        | 2.6/50+75/S+D    | R141 304 000  | 2    |                 |       |                        |                |                            |
|                                      |                  | R141 324 000  |      | 3.1             | 0.6   |                        |                | Panel sealed               |
| RG174 / RG316 / RD316                | 2.6/50/S + D     | R141 324 200  |      | 3.1             | 0.6   |                        |                | Totally sealed             |
| RG58 / RG141 / RG142 / RG223 / RG400 | 5/50/S + D       | R141 327 000  | 1    | 5.6             | 1.05  | no                     |                | Panel sealed               |
| RG401                                | .141"            | R141 338 007  |      | 3.68            | 1.27  | yes                    |                | Panel sealed, non magnetic |
|                                      |                  | R141 338 000  |      | 3.65            | 1.05  | no                     |                |                            |
| RG174 / RG316 / RG179                | 2.6/50+75S       | 6501-6571-103 | 3    | 27.42           | 20.98 | yes                    | P11            | Panel sealed               |
| RD316                                | 2.6/50D          | 6501-7551-219 |      | 25.4            | 20.47 |                        |                |                            |

## STRAIGHT BULKHEAD JACKS CRIMP TYPE FOR FLEXIBLE CABLES

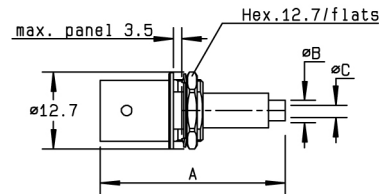


Fig. 1

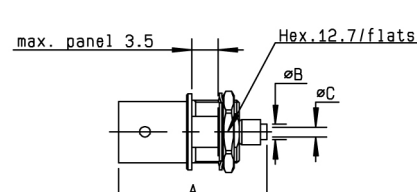


Fig. 2

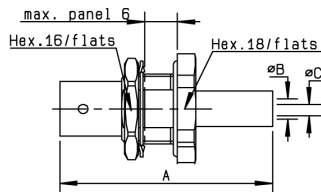


Fig. 3

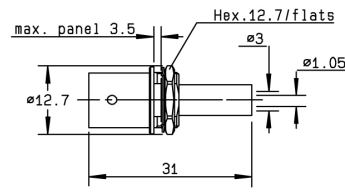
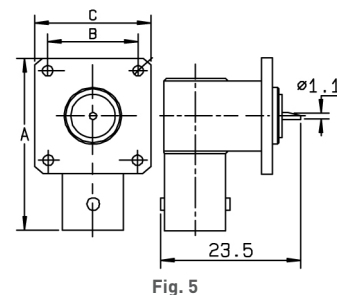
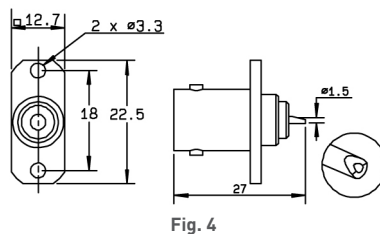
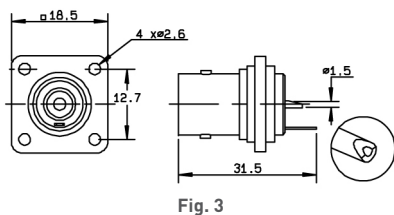
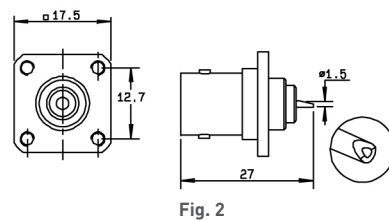
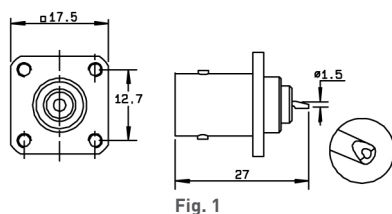


Fig. 4

| Cable group   | Cable group dia. | Part number   | Fig. | Dimensions (mm) |      |      | Captive center contact | Panel drilling | Note                                 |
|---------------|------------------|---------------|------|-----------------|------|------|------------------------|----------------|--------------------------------------|
|               |                  |               |      | A               | B    | C    |                        |                |                                      |
| RG178         | 2/50S            | R141 303 503  | 2    | 26.4            | 2    | 0.4  | yes                    |                | Reverse crimping/ commercial version |
| RD178         | 2/50D            | R141 301 000  | 1    | 33.35           | 1.09 | 0.6  |                        |                |                                      |
| RG174 / RG316 | 2.6/50/S         | R141 306 000  | 1    | 34              | 1.7  |      |                        | P14            | Reverse crimping/ commercial version |
|               |                  | R141 306 503  | 2    | 26              | 2.95 | 0.6  |                        | P11 or P16     | Panel sealed                         |
|               |                  | R141 331 500  | 3    | 38.5            | 1.7  |      |                        |                |                                      |
|               |                  | R141A 306 000 | 1    | 31              | 1.7  | 0.6  | no                     | P14            | ECO version                          |
| RG58 / RG141  | 5/50/S           | R141 308 000  | 4    |                 |      |      | yes                    |                | Single piece body                    |
|               |                  | R141 332 500  | 3    | 35.5            | 3.1  | 1.05 |                        | P11 or P16     | Panel sealed single piece body       |

## Flange receptacles

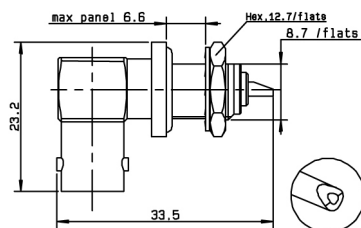
### FLANGE RECEPTACLES



| Part number  | Fig. | Dimensions (mm) |      |      | Captive center contact | Panel drilling | Flange holes | Note                        |
|--------------|------|-----------------|------|------|------------------------|----------------|--------------|-----------------------------|
|              |      | A               | B    | C    |                        |                |              |                             |
| R141 403 000 | 1    |                 |      |      | yes                    | P07            | 4 x M2.5     |                             |
| R141 404 000 | 2    |                 |      |      |                        | P06            |              |                             |
| R141 406 000 | 1    |                 |      |      |                        | P07            | 4 x M2.6     |                             |
| R141 407 000 | 2    |                 |      |      |                        | P06            |              |                             |
| R141 410 000 | 3    |                 |      |      |                        | P02            |              | Insulated flange/solder tag |
| R141 453 000 | 4    |                 |      |      |                        | P18            |              | 2 hole flange               |
| R141 654 000 | 5    | 26.9            | 12.7 | 17.5 |                        | P05            | 4 x M2.6     | Right angle receptacle      |

## Bulkhead receptacles

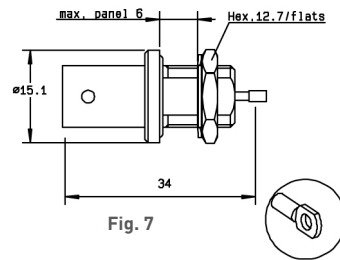
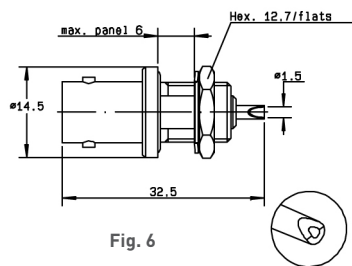
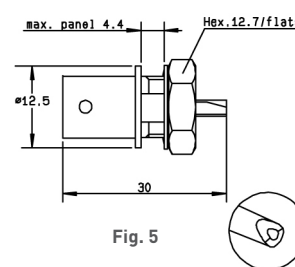
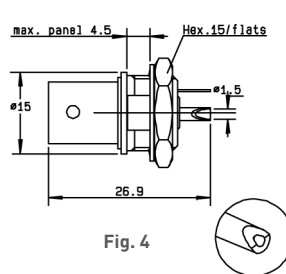
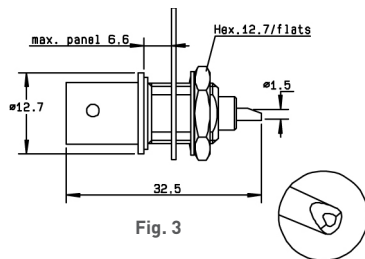
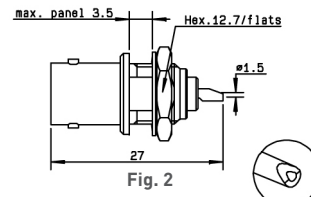
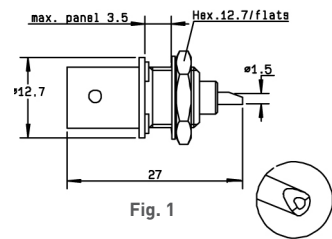
### RIGHT ANGLE BULKHEAD RECEPTACLE WITH SOLDER POT



| Part number  | Captive center contact | Panel drilling |
|--------------|------------------------|----------------|
| R141 680 000 | yes                    | P14            |

## Bulkhead receptacles

### STRAIGHT BULKHEAD RECEPTACLES WITH SOLDER POT



| Part number   | Fig. | A (Length) | Captive center contact | Panel drilling | Note                                                |
|---------------|------|------------|------------------------|----------------|-----------------------------------------------------|
| R141 554 000  | 1    |            | yes                    | P12            |                                                     |
| R141 557 000  | 2    |            |                        |                |                                                     |
| R141 559 000  | 3    |            |                        | P14            | Solder tag                                          |
| R141 563 161  | 2    |            |                        |                | Silver plated center contact/<br>commercial version |
| R141 572 000  | 4    |            |                        | P11            | Insulated receptacle + solder tag                   |
| R141 574 000  | 5    |            |                        | P14            | Commercial version/insulated                        |
| R141 574 161  |      |            |                        |                | Fully sealed/Q200-5 insulator                       |
| R141 603 000  | 6    |            |                        | P15            | Fully sealed                                        |
| R141 605 000  |      |            |                        |                |                                                     |
| R141A 605 000 | 3    | 28         |                        | P21            | Not sealed/ECO version                              |
| R141 625 000  | 7    |            |                        | P14            | Hermetically sealed                                 |

## Receptacles

### RECEPTACLES

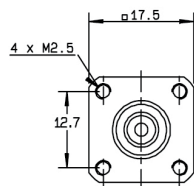


Fig. 1

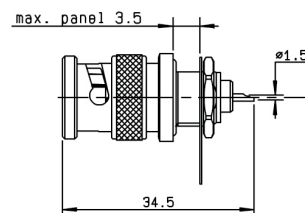
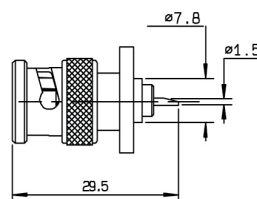


Fig. 2

| Part number  | Fig. | Captive center contact | Panel drilling | Note                                      |
|--------------|------|------------------------|----------------|-------------------------------------------|
| R141 440 000 | 1    | yes                    | P03            | Male square flange                        |
| R141 580 000 | 2    |                        | P14            | Male bulkhead / Panel sealed / Solder tag |

### STRAIGHT PCB FEMALE RECEPTACLES

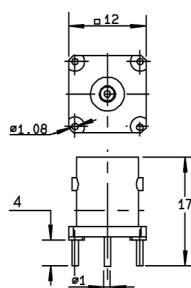
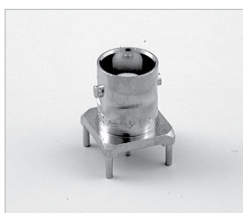


Fig. 1

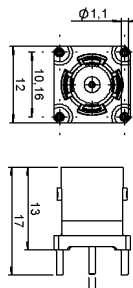


Fig. 2

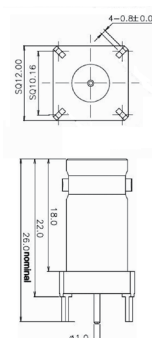


Fig. 3

| Part number  | Fig. | Captive center contact | Panel drilling | Note                               |
|--------------|------|------------------------|----------------|------------------------------------|
| R141 426 000 | 1    | yes                    | P08            | Die cast body / Commercial version |
| R141 426 161 | 2    |                        |                |                                    |
| R141 426 168 | 3    |                        |                |                                    |

### RIGHT ANGLE PCB FEMALE RECEPTACLES

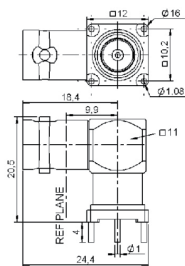


Fig. 1

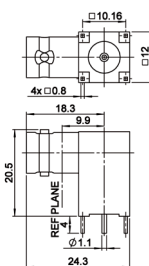
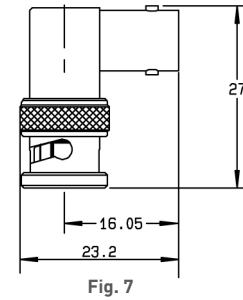
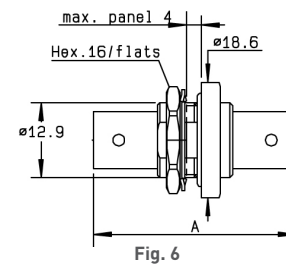
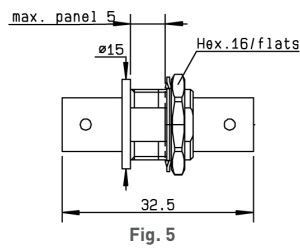
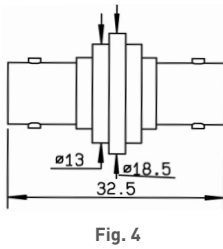
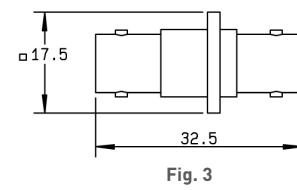
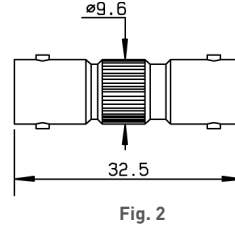
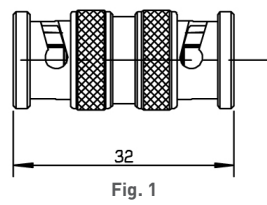


Fig. 2

| Part number  | Fig. | Captive center contact | Panel drilling | Finish | Note |
|--------------|------|------------------------|----------------|--------|------|
| R141 665 000 | 1    | yes                    | P19            | Nickel |      |
| R141 665 200 | 2    |                        | P08            |        |      |

## Adapters

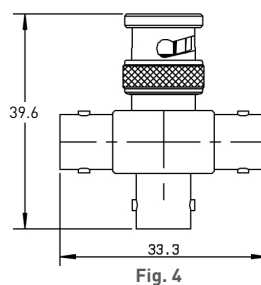
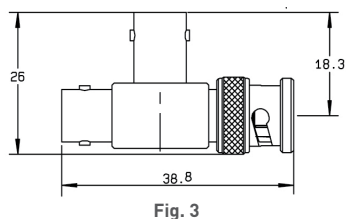
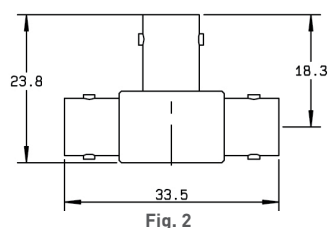
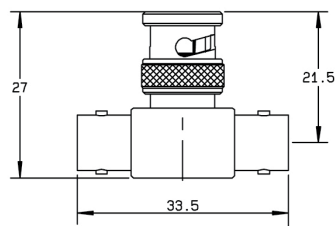
### IN SERIES ADAPTERS



| Part number   | Fig. | Captive center contact | Dimension A (mm) | Flange holes | Panel drilling | Note                                                  |
|---------------|------|------------------------|------------------|--------------|----------------|-------------------------------------------------------|
| R141 703 000  | 1    | yes                    |                  |              |                | male - male                                           |
| R141 704 000  | 2    |                        |                  |              |                | female - female                                       |
| R141 710 000  | 3    |                        |                  | 4 x M2.5     | P10            | female - female square flange                         |
| R141 717 000  | 4    |                        |                  | 4 x 2.6      | P02            | female - female square insulated flange               |
| R141 720 000  | 5    |                        |                  |              | P13            | female - female bulkhead                              |
| R141A 720 000 |      |                        |                  |              |                | female - female bulkhead/ECO version                  |
| R141 723 000  |      |                        |                  |              | P13 or P16     | female - female insulated bulkhead                    |
| R141 723 161  |      |                        |                  |              |                | female - female insulated bulkhead/commercial version |
| R141 730 000  | 6    |                        | 35.7             |              | P13            | female - female panel sealed bulkhead                 |
| R141 753 000  |      |                        | 35.3             |              |                | female - female hermetically sealed bulkhead          |
| R141 770 000  | 7    |                        |                  |              |                | male - female right angle                             |

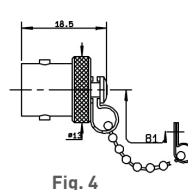
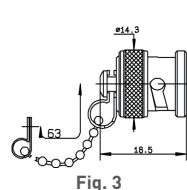
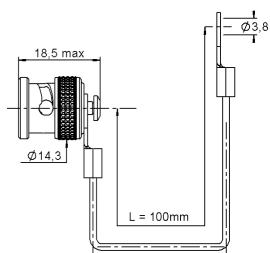
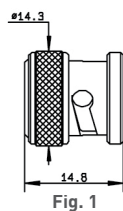
## Adapters and caps

### CROSS AND TEE IN SERIES ADAPTERS



| Part number  | Fig. | Captive center contact | Note                                           |
|--------------|------|------------------------|------------------------------------------------|
| R141 780 000 | 1    | yes                    | male/female-female tee                         |
| R141 782 000 | 2    |                        | female/female-female tee                       |
| R141 789 000 | 3    |                        | female/female-male tee                         |
| R141 799 000 | 4    |                        | male/female-female-female cross/unit packaging |

### MALE AND FEMALE CAPS



| Part number  | Fig. | Note                            |
|--------------|------|---------------------------------|
| R141 802 000 | 1    | male                            |
| R141 805 000 | 2    | male with cord                  |
| R141 812 000 | 3    | male with chain                 |
| R141 842 000 | 4    | female with chain               |
| R141 862 000 | 3    | male short circuit / with chain |

## Straight plugs

## STRAIGHT PLUGS CLAMP TYPE FOR FLEXIBLE CABLES

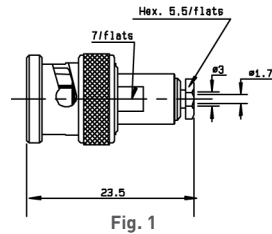
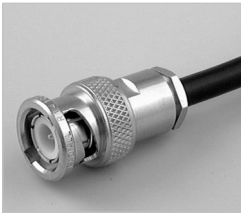


Fig. 1

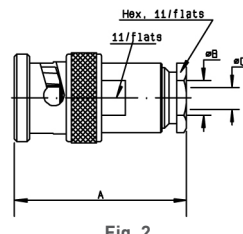


Fig. 2

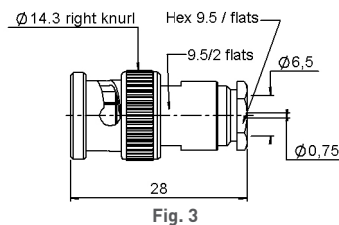


Fig. 3

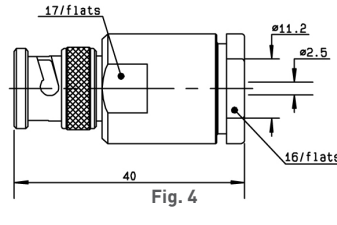


Fig. 4

| Cable group                 | Cable group dia. | Part number   | Fig. | Dimensions (mm) |      |      | Captive center contact | Note               |
|-----------------------------|------------------|---------------|------|-----------------|------|------|------------------------|--------------------|
|                             |                  |               |      | A               | B    | C    |                        |                    |
| RG179                       | 2.6/75/S         | R142 004 000  | 1    |                 |      |      | yes                    |                    |
| RG59 / RG62                 | 6/75/S           | R142 016 000  | 2    | 28              | 6.6  | 0.75 |                        | Unit packaging     |
|                             |                  | R142 016 161  | 3    |                 |      |      |                        | Commercial version |
| RG6A / U                    | 8/75/S + D       | R142 017 000  | 2    | 45.5            | 9.1  | 1.5  | yes                    | Unit packaging     |
| RG216 / RG11 / RG12 / RG144 | 10 + 11/75/S + D | R142 018 000  | 4    |                 |      |      |                        |                    |
| RG6A / U                    | GORE cable       | 6500-7071-046 | 2    | 23.87           | 4.31 | 2.79 |                        |                    |

## STRAIGHT PLUGS FULL CRIMP TYPE FOR FLEXIBLE CABLES

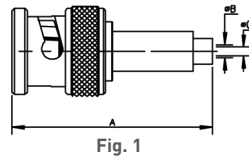


Fig. 1

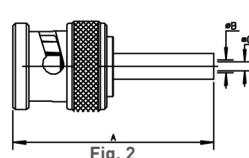


Fig. 2

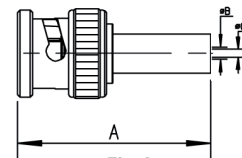


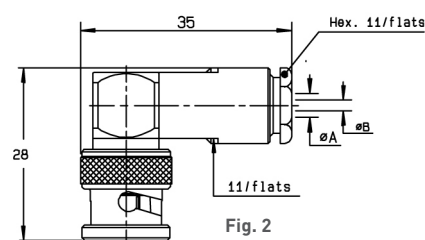
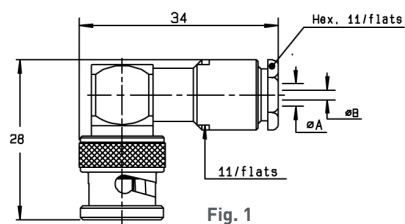
Fig. 3

| Cable group         | Cable group dia. | Part number   | Fig. | Dimensions (mm) |       |      | Captive center contact | Note                                   |
|---------------------|------------------|---------------|------|-----------------|-------|------|------------------------|----------------------------------------|
|                     |                  |               |      | A               | B     | C    |                        |                                        |
| RG179               | 2.6/75/S         | R142 076 000  | 1    | 31              | 1.8   | 0.4  | yes                    |                                        |
|                     |                  | R142 076 161  | 3    |                 |       |      | no                     | Commercial version                     |
|                     |                  | R142A 076 161 |      | 25.3            | 1.65  | 0.4  |                        | Single piece body / ECO version        |
| BT3002              | 3.6/75/D         | R142 081 120  | 2    | 29              | 2.1   | 0.34 | yes                    | Single piece body                      |
|                     |                  | R142 081 130  |      | 29              | 2.1   | 0.34 |                        | Single piece body / unit packaging     |
|                     |                  | R142A 081 130 |      | 29              | 2.1   | 0.34 |                        | Single piece body / ECO version        |
| ST212               |                  | R142 091 161  | 3    | 30              | 2.1   | 0.6  |                        |                                        |
| BT2002              | 5/75/D           | R142 083 000  | 2    | 27.3            | 5.5   |      |                        | Single piece body                      |
| RG59 / RG62         | 6/75/S           | R142 085 000  |      | 28              | 6.6   | 0.75 |                        |                                        |
|                     |                  | R142 085 161  | 3    | 28              | 3.9   |      | no                     | Single piece body / Commercial version |
|                     |                  | R142A 085 161 |      | 29              | 4     | 0.8  |                        | Single piece body / ECO version        |
|                     | 7/75/S           | R142 086 161  | 2    | 30.8            | 5.15  | 1.35 | yes                    | Single piece body / Commercial version |
|                     | 7.5/75/D         | R142 090 000  |      | 28              | 5.25  | 0.85 |                        |                                        |
| RG11 / RG12 / RG144 | 10/75/S          | R142 095 000  |      | 28              | 11.05 | 1.35 |                        | Single piece body                      |



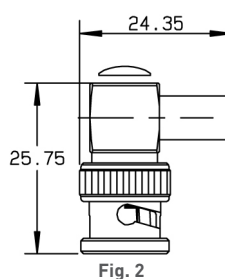
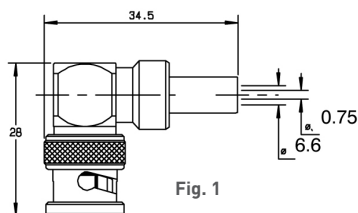
## Right angle plugs and jacks

### RIGHT ANGLE PLUGS CLAMP TYPE FOR FLEXIBLE CABLES



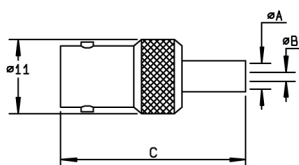
| Cable group | Cable group dia. | Part number  | Fig. | Dimensions (mm) |      | Captive center contact |
|-------------|------------------|--------------|------|-----------------|------|------------------------|
|             |                  |              |      | A               | B    |                        |
| RG179       | 2.6/75/S         | R142 154 000 | 1    | 3.1             | 0.6  | yes                    |
| RG59 / RG62 | 6/75/S           | R142 157 000 | 2    | 6.6             | 0.75 |                        |

### RIGHT ANGLE PLUGS FULL CRIMP TYPE FOR FLEXIBLE CABLES



| Cable group | Cable group dia. | Part number  | Fig. | Captive center contact | Note               |
|-------------|------------------|--------------|------|------------------------|--------------------|
| RG59 / RG62 | 6/75/S           | R142 184 000 | 1    | yes                    |                    |
|             |                  | R142 184 161 | 2    |                        | Commercial version |

### STRAIGHT JACKS FULL CRIMP TYPE FOR FLEXIBLE CABLES



| Cable group | Cable group dia. | Part number  | Dimensions (mm) |      |      | Captive center contact | Note                                 |
|-------------|------------------|--------------|-----------------|------|------|------------------------|--------------------------------------|
|             |                  |              | A               | B    | C    |                        |                                      |
| RG179       | 2.6/75/S         | R142 217 000 | 1.75            | 0.4  | 32.5 | yes                    |                                      |
| RG59 / RG62 | 6/75/S           | R142 242 000 | 6.6             | 0.75 | 29.5 |                        | Single piece body                    |
|             |                  | R142 242 161 |                 |      | 29   |                        | Single piece body/commercial version |

## Jacks and bulkhead jacks

## STRAIGHT SQUARE FLANGE JACKS CLAMP TYPE FOR FLEXIBLE CABLES

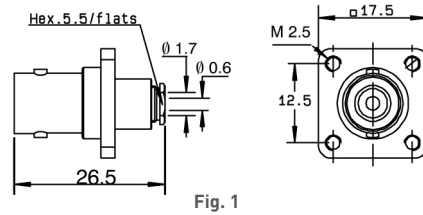
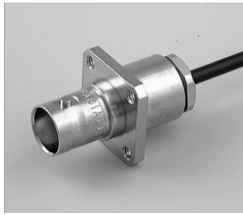


Fig. 1

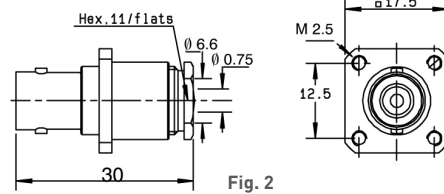
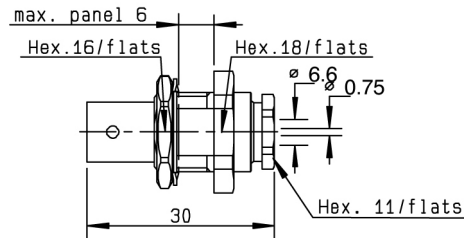


Fig. 2

| Cable group | Cable group dia. | Part number  | Fig. | Captive center contact | Panel drilling | Note           |
|-------------|------------------|--------------|------|------------------------|----------------|----------------|
| RG179       | 2.6/75/S         | R142 202 000 | 1    | yes                    | P01            | Unit packaging |
| RG59 / RG62 | 6/75/S           | R142 268 000 | 2    |                        |                |                |

## STRAIGHT BULKHEAD JACK CLAMP TYPE FOR FLEXIBLE CABLES



| Cable group | Cable group dia. | Part number  | Captive center contact | Panel drilling | Note         |
|-------------|------------------|--------------|------------------------|----------------|--------------|
| RG59 / RG62 | 6/75/S           | R142 329 000 | yes                    | P11            | Panel sealed |

## STRAIGHT BULKHEAD JACKS CRIMP TYPE FOR FLEXIBLE CABLES

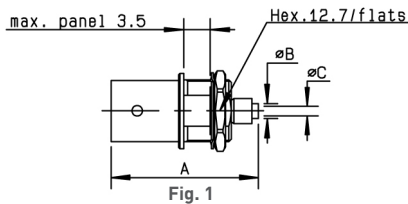


Fig. 1

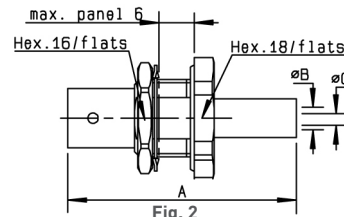
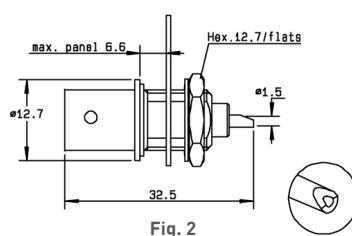
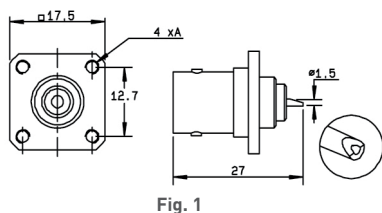


Fig. 2

| Cable group | Cable group dia. | Part number   | Fig.         | Dimensions (mm) |      |      | Captive center contact | Panel drilling                  | Note                                |
|-------------|------------------|---------------|--------------|-----------------|------|------|------------------------|---------------------------------|-------------------------------------|
|             |                  |               |              | A               | B    | C    |                        |                                 |                                     |
| RG179       | 2.6/75/S         | R142 306 500  | 1            | 26              | 2.95 | 0.4  | yes                    | P14                             | Reverse crimping/Commercial version |
|             |                  | R142A 306 500 |              |                 |      |      | no                     |                                 | Reverse crimping/ECO version        |
|             |                  | R142 306 503  |              |                 |      |      | yes                    |                                 | Reverse crimping                    |
|             |                  |               | R142 331 011 | 2               | 38   | 1.75 | 0.4                    |                                 | P11 or P16                          |
| BT3002      | 3.6/75/D         | R142A 325 106 | 36           |                 | 2.1  | 0.5  | no                     | Panel sealed/ECO version        |                                     |
| RG59 / RG62 | 6/75/S           | R142 334 161  | 35           |                 | 6.6  | 0.75 | yes                    | Panel sealed/Commercial version |                                     |
|             |                  | R142A 334 161 | 35           |                 | 3.8  | 0.7  |                        | Panel sealed/ECO version        |                                     |

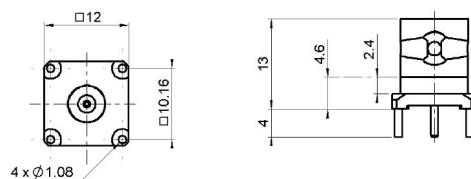
## Receptacles

### RECEPTACLES WITH SOLDER POT



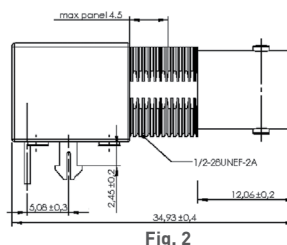
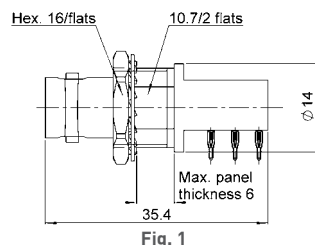
| Part number  | Fig. | Captive center contact | Panel drilling | Flange holes A | Note                                         |
|--------------|------|------------------------|----------------|----------------|----------------------------------------------|
| R142 412 000 | 1    | yes                    | P06            | 4 x M2.5       | Square flange + unit packaging               |
| R142 562 000 | 2    |                        | P14            |                | Bulkhead female receptacle<br>Unit packaging |

### STRAIGHT PCB FEMALE RECEPTACLES



| Part number  | Captive center contact | Panel drilling |
|--------------|------------------------|----------------|
| R142 426 000 | yes                    | P08            |

### RIGHT ANGLE PCB FEMALE RECEPTACLE



| Part number  | Fig. | Captive center contact | Panel drilling | Note           |
|--------------|------|------------------------|----------------|----------------|
| R142 684 130 | 1    | yes                    | P09 and P16    | Press-fit pins |
| R142 676 430 | 2    |                        | yes            | Harpoon legs   |

## Adapters

### IN SERIES ADAPTERS

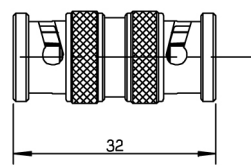


Fig. 1

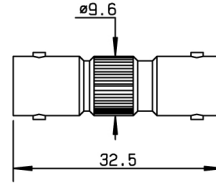


Fig. 2

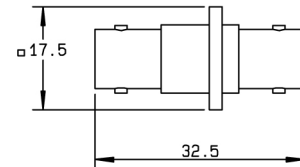


Fig. 3

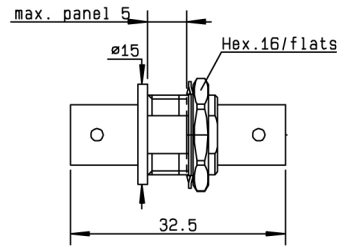


Fig. 4

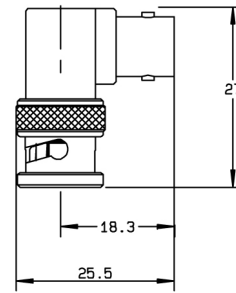


Fig. 5

| Part number  | Fig. | Captive center contact | Panel drilling | Note                               |
|--------------|------|------------------------|----------------|------------------------------------|
| R142 703 000 | 1    | yes                    |                | male - male                        |
| R142 704 000 | 2    |                        |                | female - female                    |
| R142 710 000 | 3    |                        | P01            | female - female square flange      |
| R142 720 000 | 4    |                        | P11            | female - female bulkhead           |
| R142 723 000 | 4    |                        | P11 or P16     | female - female insulated bulkhead |
| R142 770 000 | 5    |                        |                | male - female right angle          |

### TEE IN SERIES ADAPTERS

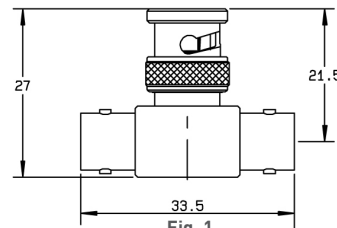


Fig. 1

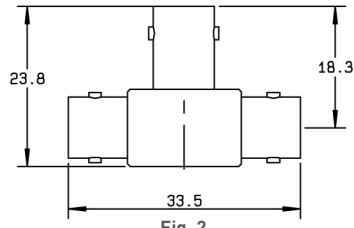


Fig. 2

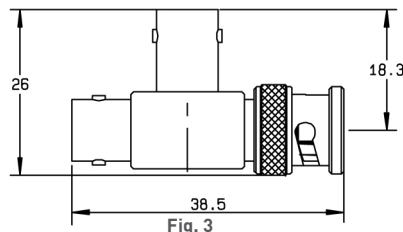


Fig. 3

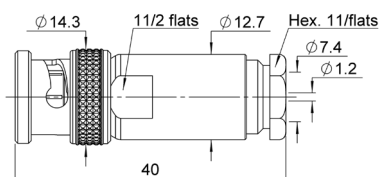
| Part number  | Fig. | Captive center contact | Note                       |
|--------------|------|------------------------|----------------------------|
| R142 780 000 | 1    | yes                    | male / female-female tee   |
| R142 782 000 | 2    |                        | female / female-female tee |
| R142 789 000 | 3    |                        | female / female-male tee   |

## Characteristics

| Test / Characteristics                                                                                                                                                     | Values / Remarks                            |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|
| Frequency range                                                                                                                                                            | DC - 10 GHz                                 |                                           |
| Impedance                                                                                                                                                                  | 50Ω                                         |                                           |
| Working voltage                                                                                                                                                            | 500 Vrms                                    |                                           |
| Dielectric withstanding voltage <ul style="list-style-type: none"> <li>Between center conductor and inner screen</li> <li>Between inner screen and outer screen</li> </ul> | Unmated connector<br>1500 Vrms<br>1000 Vrms | Mated connector<br>3000 Vrms<br>1000 Vrms |
| Temperature range                                                                                                                                                          | -55°C / +125°C                              |                                           |

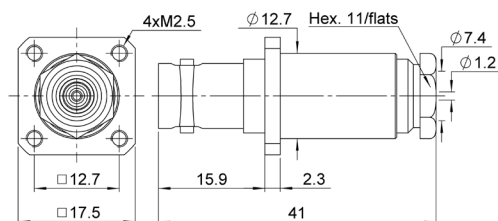
## Plug, jack and receptacle

### STRAIGHT PLUG CLAMP TYPE



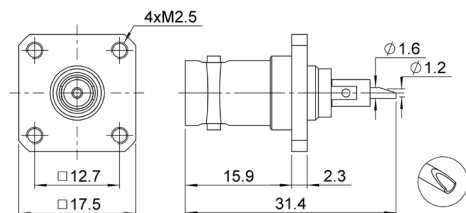
| Cable group dia. | Part number  |
|------------------|--------------|
| 7.3 / 50 / D     | R266 010 000 |

### STRAIGHT JACK CLAMP TYPE



| Cable group dia. | Part number  | Panel Drilling |
|------------------|--------------|----------------|
| 7.3 / 50 / D     | R266 260 000 | P10            |

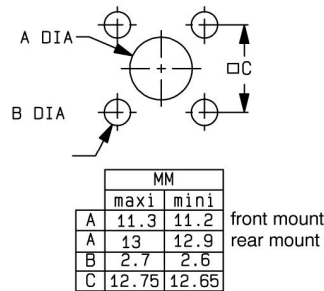
### RECEPTACLE



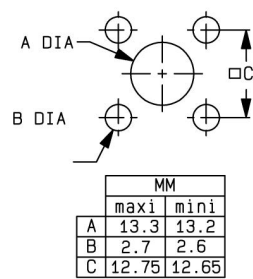
| Part number  | Panel Drilling |
|--------------|----------------|
| R266 403 000 | P10            |

Panel drilling

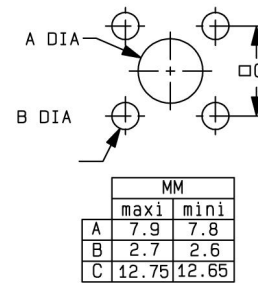
P01



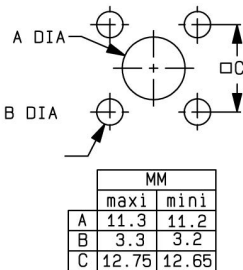
P02



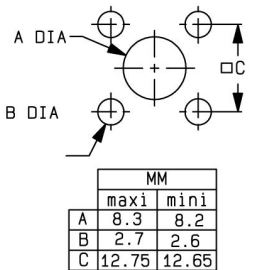
P03



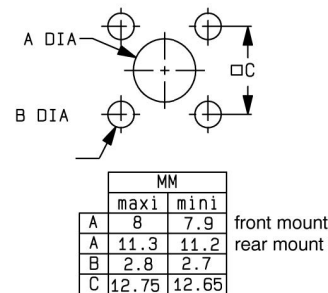
P04



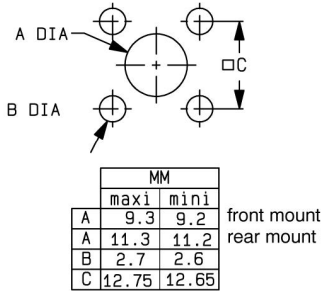
P05



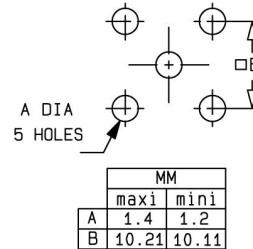
P06



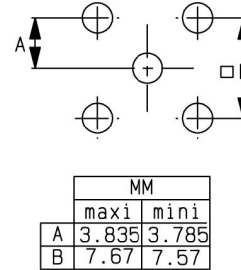
P07



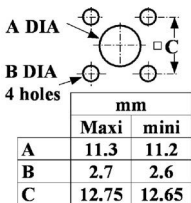
P08



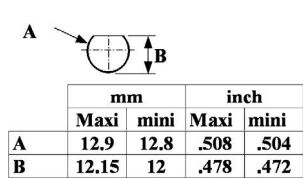
P09



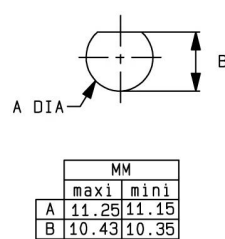
P10



P11

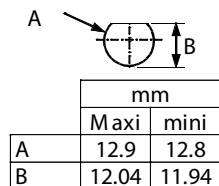


P12

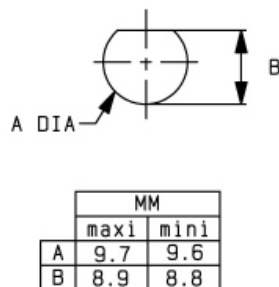


## Panel drilling

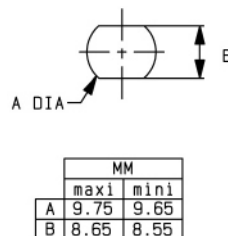
P13



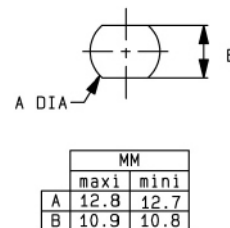
P14



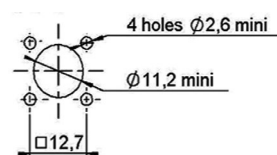
P15



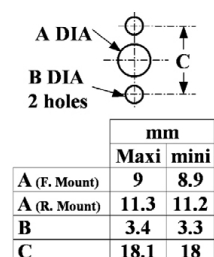
P16



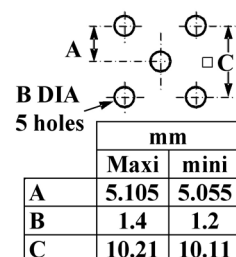
P17



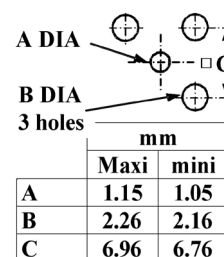
P18



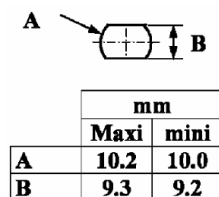
P19



P20



P21



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