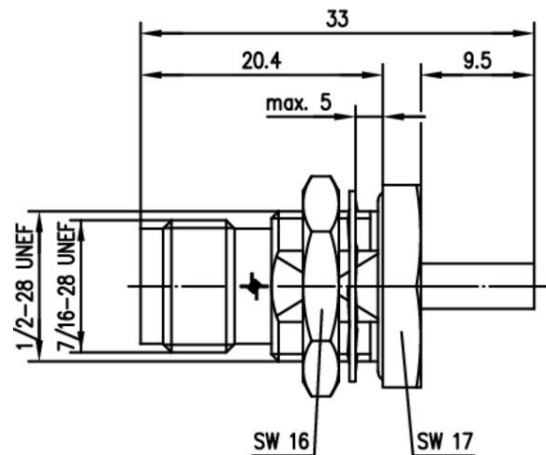
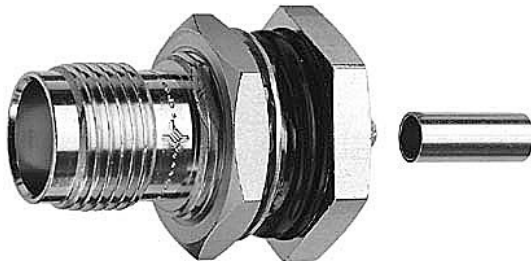


order number: J01011A0061

TNC Bulkhead Jack Crimp G7 (RG-316/U) crimp/crimp



| Technical Attributes |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| Z                    | 50 $\Omega$                                                           |
| Cable group; cable   | G7 (RG-316/U)<br>RG-188A/U<br>RG-174/U<br>KX 3B<br>RG-316/U<br>KX 22A |
| Remarks              | crimp/crimp                                                           |
| Mount. dim.          | Z04                                                                   |
| Assembly             | A3516                                                                 |
| Crimp die            | N01001A0009                                                           |

## Product description

The TNC series is a commonly used coax connector. The same size as BNC connectors, but with a threaded coupling mechanism, this connector can be used up to 11 GHz. Both 50  $\Omega$  and 75  $\Omega$  impedances are available. Connector styles are available for flexible, conformable and semi-rigid cable types. Versions of the TNC connector are available for mounting to printed circuit boards using both through-hole soldered and through-hole press-fit techniques. Both crimp and clamp cable termination processes are used for this series. Applications for these connectors range from signal and data to video transmission where vibration resistance is required. TNC's are a low-cost high-frequency solution for coax connections.

Mating face sealing for TNC connectors between plug and jack (mated) according to IP 68. The classifications are general statements for the relevant series. Individual connectors may deviate from the values shown. If in doubt, please consult our engineers.

| Mechanical Characteristics  |                       |
|-----------------------------|-----------------------|
| Recommended coupling torque | 0.46 - 0.69 Nm        |
| Durability (mating cycles)  | ≥ 500                 |
| Material: spring contacts   | CuBe2; CuNi1Pb1P(C97) |
| Material: outer conductor   | CuZn39Pb3             |
| Material: other metal parts | CuZn39Pb3             |
| Material: gaskets           | Silicone              |
| Material: insulators        | PTFE; PE              |
| Finish: Inner conductor     | Cu1Ni2Au0.8           |
| Finish: Outer conductor     | Cu2Ni5                |
| Finish: Other metal parts   | Cu2Ni5                |

| Climatic Characteristics                |           |
|-----------------------------------------|-----------|
| Climatic category acc. to IEC 60068 - 1 |           |
| Types with PTFE insulator               | 40/155/21 |
| Types with PE insulator                 | 40/75/21  |

| Electrical Characteristics                        |                               |
|---------------------------------------------------|-------------------------------|
| Contact resistance inner conductor                | ≤ 10 mΩ                       |
| Contact resistance outer conductor                | ≤ 2.5 mΩ                      |
| Insulation resistance                             | ≥ 5 GHz                       |
| Voltage proof                                     | 1.5 kV <sub>eff</sub> /50 Hz  |
| Impedance                                         | 50 Ω/(75 Ω)                   |
| Return loss: Straight style (valid for 50 Ω only) | ≥ 17.7 dB/11 GHz              |
| Return loss: Angle style (valid for 50 Ω only)    | ≥ 16.5 dB/11 GHz              |
| Working voltage                                   | ≤ 500 V <sub>eff</sub> /50 Hz |
| Frequency range up to (valid for 50 Ω only)       | 11 GHz                        |

| Standards     |  |
|---------------|--|
| IEC 60 169-17 |  |

#### Note

Combination connectors and cable clamps can be utilised to create a further number of TNC connector variations.