

The **RF-coaxial connector TNC 50 Ohm** for flexible coaxial transmission line from 3 up to 11 mm external diameter used for installations and equipment by the telecommunication and measurement engineering with a frequency range up to 4 GHz.

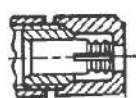
It is a small, light and moisture-proof coaxial connector with screw top and pin-socket-principle. This connectors are produced for the two mating compatible series 50 Ohm or 75 Ohm¹. For cable mounting, two versions - one with crimp connection and a second with combined solder/clamp connection - are available.

Additional Cable strain relief for the solder/clamp version

The version with solder/clamp connection can be equipped with additional clamping of the cable sheath and so provide a more effective cable strain relief².



Cable Plug
solder/clamp connection
with additional clamping
of the cable sheath



² Additional clamping
of the cable sheath
on request



Cable Plug



Cable Adaptor



Bulkhead Adaptor

¹ Notice the increase of the reflection coefficient at higher frequencies.

Electrical Characteristics (at 20°C and 65 % rel. humidity)

Surge Impedance	50 Ω
Frequency range	0 up to 4 GHz
Return loss (plug-socket inserted).....	≥ 19 dB
Contact resistor (plug-socket inserted)	
Inner conductor.....	≤ 3 mΩ
Outer conductor.....	≤ 1 mΩ
Insulation resistance.....	≥ 5 GΩ
Test voltage U_{eff}	
Connectors for cable diameter	≤ 4 mm 1000 V
Connectors for cable diameter	≥ 5 mm 1500 V
Operating voltage U_{eff}	
Connectors for cable diameter	≤ 4 mm 400V
Connectors for cable diameter	≥ 5 mm 500V

Operating Temperature range..... - 65 °C up to +165 °C

Mechanical Characteristics

Durability (mating cycles)

.....	≥ 1000
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Construction

Inner conductor.....	Brass/Beryllium copper, hard gold-plated
Dielectric.....	PTFE
Outer conductor.....	Brass corrosion resistant finish
Suspension parts.....	Stainless steel
Bracket parts	Brass/Copper wit corrosion resistant finish
Gasket	Silicon
Strain Relief Sleeve	Polyurethane (PUR)

RoHS..... compliant

The specified data serve only to describe the product and should not be considered legally binding, guaranteed properties. Depending on the application, design, type of cable and assembly method the specified values may differ. We reserve the right to make constructional changes, determine delivery and are not responsible for any errors and omissions.

Individual customized High Performance Cable Connectors

On the basis of our 90 years of experience as Developer and Producer of high quality cable connectors we are able to provide customer-specific solutions by manufacturing individual precision cable connectors from Damar & Hagen.

Options

Surface.....	special surfaces according to customers requirement, for the layer structure and also for the layer thicknesses
Cable connections.....	halogen-free cables, two braids cable, multi-wire cable, unusual cable diameter, different cable length, additional clamping of the cable sheath, Assembly by our company,
Dimensions.....	all dimensions, distances, nuts, tread length mounting holes, insulation bases etc. are variable according to customers requirement
Electrically variable.....	special resistors, circuits, contacts are possible According to customers requirement
Insulating parts, gaskets and contacts.....	other colours and materials are possible (e. g. Beryllium bronze for outer conductor contact)