

## TNC GENERAL DATASHEET

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### Applicable Standards

Interface according to

Standards: IEC 61169-8

### Electrical characteristics

Characteristic impedance		50 / 75	$\Omega$	
Frequency range		DC to 4 / DC to 2	GHz	
Return loss (typical)	DC - 1 GHz	$\geq 26$ / $\geq 24$	dB	straight, semi-rigid cable
	1 - 2 GHz	$\geq 22$ / $\geq 20$	dB	straight, semi-rigid cable
	2 - 4 GHz	$\geq 20$ / ----	dB	straight, semi-rigid cable
RF-Leakage	DC - 1 GHz	$\geq -65$	dB	Interface
Insertion loss		$\leq 0.1 \times \sqrt{f[\text{GHz}]}$	dB	
Insulation resistance		$\geq 5$	G $\Omega$	
Center contact resistance		$\leq 2,5$	m $\Omega$	
Outer contact resistance		$\leq 1$	m $\Omega$	
Working current			A DC	Data on request
Test voltage		1000	V rms	
Working voltage		500	V max.	
Intermodulation 3rd order	( 2x43dBm )	---	dBc	
Power handling	@ 1.0 GHz		W	Data on request
	@ 2.0 GHz		W	Data on request

### Mechanical characteristics

Durability (matings)		$\geq 500$		
Coupling nut retention force		-	N	
Center contact retention force (axial)		$> 27$	Nm	
Coupling torque		0,46 - 0,69	Nm	
Proof torque		max. 1,7	Nm	

### Materials

Outer contact	CuBe / CuZn / Diecast
Center contact	CuBe / CuZn
Crimp ferrule	Cu / CuZn
Other metal parts	CuZn
Dielectric	PTFE
Gasket	Rubber

### Standard plating

Outer contact	Ni / white bronze
Centre contact	Au
Crimp ferrule	Ni / white bronze
Other metal parts	Ni white bronze

### Environmental influences

Temperature range	-55°C up to +125°C
Test categories	DIN 40045 / IEC 55/125/56
Relative humidity	MIL-STD-202, Method 106
Thermal shock	MIL-STD-202, Method 107, Cond. B
Shock	MIL-STD-202, Method 213, Cond. J
Vibration	MIL-STD-202, Method 204, Cond. B
Corrosion	MIL-STD-202, Methode 101, Cond. B

RoHS

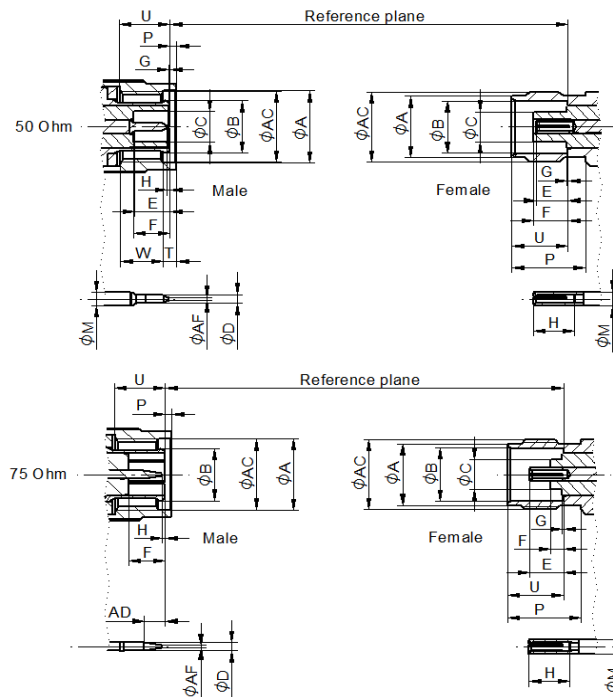
compliant

Date: 13.12.2019 U. Mayer

Revision:

Approved: 18.12.2019 P. Schuh

**TNC GENERAL DATASHEET**



	Male		Female	
	min.	max.	min.	max.
A	11,18		9,6	9,7
B			8,1	8,15
C	4,83			4,72
D	1,32	1,37		
E	5,33		4,55	5,23
F	5,28		max. 1,5 (at 75 Ohm)	5,28
G	0,15			0,15
H	0,35		4,95	
M	2,14 nom.		2,14 nom.	
P		1,98	10,52	
T	1,6			
U	5,38		8,31	8,51
W	3,96			
AC	7/16-28 UNEF-2B		7/16-28 UNEF-2A	
AF		0,64		

Dimension in mm

Some connectors may have a specification that differs from the above mentioned data.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Date	Alteration	Signature		
Date:	13.12.2019	U. Mayer	Revision:	
Approved:	18.12.2019	P. Schuh		