HUBER+SUHNER® DATA SHEET RF ASSEMBLIES
Test Lead: TL-P

Rev.: A

Description

High flexible Test Lead for Passive Intermodulation (PIM) and Return Loss with armour cable and 1x DIN 7/16 male straight and 1x N male straight connectors for frequency up to 4 GHz.



ID (Material/Item No.) **85027453**
Description (Product) **TL-P-11716-11N-03000-51**

Product Configuration

Length of Assembly	3000 mm +/- 30 mm (118.1 +/- 1.18 in)	
Connectors	DIN 7/16 straight male / N straight male	
	Coupling nuts:	Steel / DIN: Hex.32 mm, N: HEX.19 mm
	Body:	Brass / SUCOPLATE®,
	Center Contact:	Cu-Be / Gold plated
Cable	Inner Conductor:	Copper / Silver plated wire
	Dielectric:	PTFE
	Outer Conductor:	Braid / Tin plated
	Jacket Armour:	TPU black / max. ø 10.4 mm

Technical Data

Mechanical Data

Connector Interface	IEC 61169-4 /16	Bending Radius:		min. 50 mm (1.97 in)
Mating cycle *)	> 2000		repeated (50x)	min. 80 mm (3.15 in)
Retention Force	< 200 N		dynamic	min. 110 mm (4.30 in)
Weight	0.590 kg (1.30 lb)			
Mating Torque (Recom.)	DIN: 20 Nm / N: 3 Nm			
Crush Resistance	80 kN/m			

Environmental Data

Operating Temperature	- 15°C to + 65°C
Installation Temperature	- 10°C to + 55°C
Storage Temperature	- 40°C to + 85°C
RoHS, REACH	compliant
Water protection	IP 67, in mated condition

Electrical Data

Impedance	50 Ω +/-2 Ω
Operating Frequency	up to 4 GHz
Velocity of propagation	71 %
Capacitance	92 pF / m
Dielectric withstand voltage	5 kV rms
Screening effectiveness	> 100 dB up to 4 GHz
Passive Intermodulation **)	≥ -117 dBm (-160 dBc)

Frequency	1.0 GHz	2.0 GHz	3.0 GHz	4.0 GHz
Return Loss	- 29 dB	- 26 dB	- 23 dB	- 20 dB
Attenuation (max. at 25°C)	1.45 dB	2.10 dB	2.60 dB	3.05 dB
Power handling (seal level at 40°C)	560 W	390 W	320 W	280 W

General Information

*) Number of Mating: With use of torque wrench at recommended value, clean interface after each 20 mating's. Mated with connectors according IEC or MIL standard.

**) PIM Testing: 100%, according IEC 62037-2

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!
It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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