

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.) 85027450
Description (Product) TL-P-11716-11N-01500-51



Product Configuration

Length of Assembly 1500 mm +/- 15 mm (59.06 +/- 0.59 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	0.390 kg (0.86 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)	0.80 dB	1.15 dB	1.40 dB	1.60 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!
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