

HUBER+SUHNER® DATA SHEET RF ASSEMBLIES

Test Lead: TL-P

Rev.: A



Description

High flexible Test Lead for Passive Intermodulation (PIM) with armour cable and 2x DIN 7/16 male straight connectors for frequency up to 4 GHz.

ID (Material/Item No.)

85027254

Description (Product)

TL-P-11716-11716-03000-51



Product Configuration

Length of Assembly
Connector

3000 mm +/- 30 mm (118.1 +/- 1.18 in)
DIN 7/16 straight male (2x)

Coupling nut: Steel / Hex. 32 mm
Body: Brass / SUCOPLATE®
Center Contact: Cu-Be / Gold plated
Inner Conductor: Copper / Silver plated wire
Dielectric: PTFE
Outer Conductor: Braid / Tin plated
Jacket Armour: TPU black / max. Ø 10.4 mm

Cable

Technical Data

Mechanical Data

Connector Interface IEC 61169-4
Mating cycle *) > 2000
Retention Force < 200 N
Weight 0.590 kg (1.30 lb)
Mating Torque (Recom.) 20.0 Nm
Crush Resistance 80 kN/m

Bending Radius: single (1x) min. 50 mm (1.97 in)
repeated (50x) min. 80 mm (3.15 in)
dynamic min. 110 mm (4.30 in)

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	- 19 dB
Attenuation (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.



HUBER+SUHNER AG
RF Technology
9100 Herisau, Switzerland
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
www.hubersuhner.com

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