

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 2x DIN 7/16 male straight connectors for frequency up to 4 GHz.

ID (Material/Item No.)

85027448

Description (Product)

TL-P-11716-11716-01500-51

Product Configuration

Length of Assembly
Connector

1500 mm +/- 15 mm (59.06 +/-0.59 in)
DIN 7/16 straight male (2x)

Cable

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



Technical Data

Mechanical Data

Connector Interface

IEC 61169-4

Bending Radius:

Mating cycle *)

> 2000

repeated (50x)
dynamic

Retention Force

< 200 N

Weight

0.390 kg (0.86 lb)

Mating Torque (Recom.)

20.0 Nm

Crush Resistance

80 kN/m

min. 50 mm (1.97 in)

min. 80 mm (3.15 in)

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

> 110 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 connector 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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