

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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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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