HUBER+SUHNER® DATA SHEET RF ASSEMBLIES Test Lead: TL-8A

Rev.: A

Description

Test Lead assembly for indoor applications (Test and Measurement) consisting of a high flexible PE foamed cable with armouring protection and 2x N male straight connectors for frequency up to 8 GHz.

ID (Material/Item No.) 85006682

TL-8A-11N-11N-01500-51 **Description** (Product)

Product Configuration

Cable type 50Ω +/-1 Ω , PE Foam double screen

Steel wire spring, steel braid, TPU blue, max. dia. 10.4 mm Armour

Length of Assembly 1500 mm +/- 15 mm

Connector A N Straight male, knurl / hex. 19 mm, Quick-Lock

Nut: steel; body: brass/SUCOPLATE®; Center Contact: Cu-Be/Gold

Connector B N Straight male, knurl / hex. 19 mm, Quick-Lock

Nut: steel; body: brass/SUCOPLATE®; Center Contact: Cu-Be/Gold

Cable entry protection

Technical Data

Mechanical Data

Mating cycle *) > 3000 Bending Radius repeated (min.) 55 mm (preferred: 100 mm) IEC 61169-16 / MIL-STD-348A/304 Tensile Force (max.) 200 N Connector interface Recom. mating torque **) 1.0 Nm Weight 0.295 kg

Environmental Data

Operating Temperature - 5°C to + 85°C Storage Temperature - 40°C to + 85°C RoHS, REACH compliant

Water protection***) N-Connector without gasket on Interface

Electrical Data

Impedance 50 Ω +/-1 Ω Operating Frequency up to 8 GHz Velocity of propagation 82 % Insulation resistance $> 5 \times 10^3 M\Omega$ 82 pF / m Capacitance Time delay 4.3 ns / m Dielectric withstand voltage 500 V rms

Frequency 1 GHz 2 GHz 3 GHz 4 GHz 6 GHz 8 GHz Return Loss equal or better - 32 dB - 29 dB - 26 dB - 26 dB - 25 dB - 22 dB Attenuation (assembly) typically, at 25°C 0.54 dB 0.80 dB 1.00 dB 1.16 dB 1.50 dB 1.84 dB Power handling 150 W 80 W 50 W sea level, at 40°C 105 W 75 W 62 W > 65 dB > 50 dB Screening effectiveness > 80 dB > 76 dB > 70 dB > 60 dB Insertion Loss stability ****) < 0.02 dB < 0.03 dB < 0.04 dB < 0.05 dB < 0.08 dB < 0.10 dB Phase stability ****) +/- 1.5° el. +/- 2.5° el. +/- 4° el. +/- 5° el. +/- 8° el. +/- 10° el.

General Information

Number of Mating With use of torque wrench at recommended value, clean interface after each 20 matings, mated with connector according IEC or MIL standard

H+S description: 74 Z-0-0-321 // material/item number: 22651994 H+S torque wrench

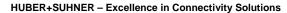
Waterproof with gasket: IP 67

****) Stability test One, 180° revers bends, 75 mm radius mandrel

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.





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