# **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 connectors 1x N male straight and 1x N female straight for frequency up to 8 GHz.

ID (Material/Item No.) 85021664

TL-8A-11N-21N-01500-51 **Description** (Product)

# **Product Configuration**

Cable type  $50\Omega$  +/-1 $\Omega$ , 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,

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

Connector B N Straight female

Body: steel; Center Contact: Cu-Be/Gold

PA, black 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 - 40°C to + 85°C Storage Temperature 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 105 W 75 W 62 W sea level, at 40°C > 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

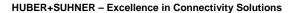
Waterproof with gasket: IP 67

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

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

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