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

Product Configuration
Cable type 50Ω +/-1Ω, PE Foam double screen
Armour Steel wire spring, steel braid, TPU blue, max. dia. 10.4 mm
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
Cable entry protection PA, black

Technical Data

Mechanical Data
Mating cycle *) > 3000 Bending Radius repeated (min.) 55 mm (preferred: 100 mm)
Tensile Force (max.) 200 N Connector interface IEC 61169-16 / MIL-STD-348A/304
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 50Ω +/-1Ω Operating Frequency up to 8 GHz
Velocity of propagation 82% Insulation resistance > 5 x 10³ MΩ
Capacitance 82 pF / m Time delay 4.3 ns / m
Dielectric withstand voltage 500 V rms

Return Loss

Frequency 1 GHz 2 GHz 3 GHz 4 GHz 6 GHz 8 GHz
Attenuation (assembly) equal or better -32 dB -29 dB -26 dB -26 dB -25 dB -22 dB
Power handling sea level, at 40°C 150 W 105 W 80 W 75 W 62 W 50 W
Screening effectiveness >80 dB >76 dB >70 dB >65 dB >60 dB >50 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 torque wrench H+S description: 74_Z-0-0-321 // material/item number: 22651994
***) Waterproof with gasket: IP 67
****) Stability test One, 180° revers bends, 75 mm radius mandrel