

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



Product Configuration

Cable type 50 Ω +/-1 Ω , 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, *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 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	50 Ω +/-1 Ω	Operating Frequency	up to 8 GHz
Velocity of propagation	82 %	Insulation resistance	> 5 x 10 ³ M Ω
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	typically, at 25°C	0.54 dB	0.80 dB	1.00 dB	1.16 dB	1.50 dB	1.84 dB
Screening effectiveness	sea level, at 40°C	150 W	105 W	80 W	75 W	62 W	50 W
Insertion Loss stability ****)		> 80 dB	> 76 dB	> 70 dB	> 65 dB	> 60 dB	> 50 dB
Phase stability ****)		< 0.02 dB	< 0.03 dB	< 0.04 dB	< 0.05 dB	< 0.08 dB	< 0.10 dB
		+/- 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

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.



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

HUBER+SUHNER – Excellence in Connectivity Solutions

DS-TL-8A-11N-11N-01500-51

DOC-0000413919

Rev.: A

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

HUBER+SUHNER:

[TL-8A-11N-11N-01500-51](#)