



Standard LISCA

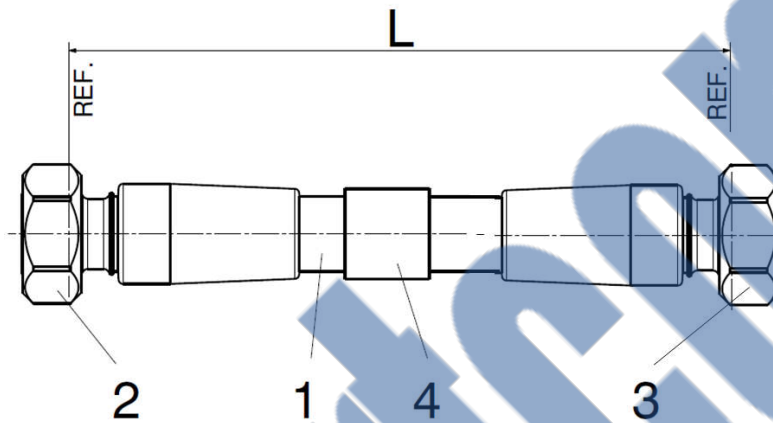
LIS-C9-11431X-11431X-XXXXX-51

SUCOFEED_12_HF, 2x straight male 4.3-10-X (HEX. nut)

Description

LISCA Assembly consisting of corrugated 1/2" high-flex coaxial cable with connectors 2x straight 4.3-10(X) male for frequencies DC to 6 GHz.
(LISCA = Low Loss Soldered Corrugated Cable Assemblies)

Mechanical Diagram



List of Components

Pos	Components	Description	Type
1	Cable type	Corrugated 1/2" High Flex with PE jacket	SUCOFEED_1/2" HF or equivalent cable
2	Connector type	4310(X) straight male (X= HEX. nut version)	LIS11_4310-50-9-XSTD
3	Connector type	4310(X) straight male (X= HEX. nut version)	LIS11_4310-50-9-XSTD
4	Marking	See Marking and Packing section	

Ordering Information

LIS-C9-11431X-11431X-XXXXX-51

XXXXX = Length of assembly in millimetres

Example: LIS-C9-11431X-11431X-02000-51

Jumper cable made with 2x straight male 4310(X) connectors using 1/2" high flex corrugated cable with length 2000 millimetres (6.5 ft).



Standard LISCA

LIS-C9-11431X-11431X-XXXXX-51

SUCOFEED_12_HF, 2x straight male 4.3-10-X (HEX. nut)

Electrical data

Property	Description	Value									
Impedance		50 Ω									
Frequency	Max. operating	6 GHz									
Return loss	Length	0.5m to 5m			5m to 8m			8m to 12m			
	DC ...1.0 GHz	≥ 28 dB			≥ 26 dB			≥ 26 dB			
	1.7 ... 2.2 GHz	≥ 26 dB			≥ 24 dB			≥ 22 dB			
Intermodulation	IM3 (2 x 20W)	-162 dBc (typical)									
RF power	At 40°C	... - 1000 MHz: ≥ 700 W ... - 2200 MHz: ≥ 500 W									
Max. Attenuation [dB at 20°C]	Length	0.5m	1m	1.5m	2m	2.5m	3m	3.5m	4m	5m	
	DC ÷ 1.0 GHz	0.07	0.13	0.20	0.26	0.33	0.39	0.46	0.52	0.65	
	1.0 ÷ 2.2 GHz	0.11	0.21	0.32	0.42	0.53	0.63	0.74	0.84	1.05	
	If Length > 5m use below calculation formula for attenuation										
	Cable	$IL = L \times (a \times \sqrt{f} + b \times f)$ L = cable length in m, a = 0.115, b = 0.014, f = frequency in GHz									
	Connectors	+ 0.04 dB									
	Example for L = 8 m										
	DC ÷ 1.0 GHz	(Cable: 0.99 dB) + (Connectors: 0.04 dB) = 1.03 dB									
	1.0 ÷ 2.2 GHz	(Cable: 1.55 dB) + (Connectors: 0.04 dB) = 1.59 dB									

Mechanical Data

Property	Description	Value
Cable length	Length is measured from the outer conductor interfaces for straight connectors	for cable up to 2m: +/-10mm for cable up to 5m: +/-30mm for cable > 5m: +/- 1 % of Length
Coupling nut torque	4.3-10(X) male connector (recommended)	5 ... 8 Nm
Bending radius	Single // Repeated (20 times)	min. 25 mm // min. 50 mm
	Cable bending must start after the moulded connector cable entry protection!	
Hanger spacing	Recommended distance	0.8 m

Environmental Data

Property	Description	Value
Temperature range	Operating // Installation Storage	-40° C to +85° C // -25° C to +60° C -70° C to +85° C
Waterproof rate	0.1 bar, 24 h, 20°C	IP68
RoHS (2011/65/EU)	Lead free solder	Compliant



Standard LISCA

LIS-C9-11431X-11431X-XXXXX-51

SUCOFEED_12_HF, 2x straight male 4.3-10-X (HEX. nut)

Requirement of included components

4.3-10(X) straight male connector (HEX. nut)

Parameter	Value
Interface	Meet std. IEC 61169-54
Coupling nut	HEX. 22 mm
Material	Body, nut and centre contact: Brass Insulator: PTFE
Plating	Body: Silver or Tremetal Centre contact: Silver Nut: Nickel or Tremetal

Corrugated SUCOFEED_12_HF cable

Parameter	Condition	Value
Jacket	PE, black, free of halogen	Max. Φ 13.5 mm

Marking and Packing

Marking	Description
Positioning label	If cable \leq 1m: in cable centre If cable $>$ 1m: 20 cm from connector 1
Printing label	Manufacturer's trade name/mark Date of manufacture, year and week in a four digit code (YYWW) or batch code
Packing	Description
	1 Assembly in a plastic bag, with protection on connector interface

WAIVER!

It is exclusively in written agreements that we provide our customer with warrants and representations as to the technical contained specifications and/or the fitness for any particular purpose. The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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

Issued: 16/10/2018

Revision: B

uncontrolled copy



HUBER+SUHNER

RF Division

www.hubersuhner.com