



LISCA LTE

LIS-C9-11431X-214310-XXXXX-52

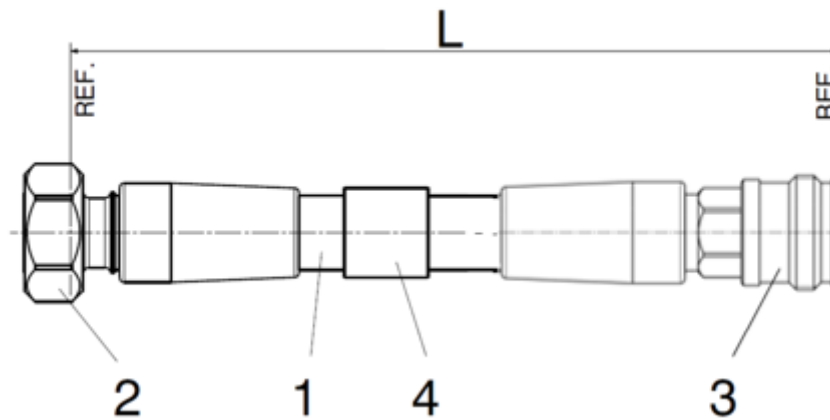
Cable: SUCOFEED 1/2" HF (High Flex),

Connectors: 1x straight male 4.3-10-X (HEX. nut), 1x straight female 4.3-10

Description

LISCA LTE Assembly consisting of corrugated 1/2" high-flex coaxial cable with connectors 1x straight 4.3-10(X) male and 1x straight 4.3-10 female 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 (S) 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 straight female	LIS21_4310-50-9-STD
4	Marking	See Marking and Packing section	

Ordering Information

LIS-C9-11431X-214310-XXXXX-52

XXXXX = Length of assembly in millimetres

Example: LIS-C9-11431X-214310-02000-52

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



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Electrical Data

Property	Description	Value								
Impedance		50 Ω								
Frequency	max. operating	6 GHz								
Return loss 100% tested	Length	Typical			Minimum					
		0.5m to 5m	5m to 8m	8m to 12m	0.5m to 5m	5m to 8m	8m to 12m			
	DC - 1.00 GHz	32 dB	31 dB	30 dB	29 dB	27 dB	26 dB			
	1.70 - 2.20 GHz	30 dB	29 dB	28 dB	28 dB	25 dB	24 dB			
	2.20 - 2.70 GHz	28 dB	27 dB	26 dB	26 dB	23 dB	22 dB			
	3.40 - 3.80 GHz	25 dB	24 dB	23 dB	22 dB	21 dB	20 dB			
Intermodulation 100% tested	IM3 (2x20W)	≤ -160 dBc (typical: -163 dBc) / at 1.8 GHz or alternative at 0.9 GHz								
RF power	40°C (sea level)	1 GHz: ≥ 780 W / 2.2 GHz: ≥ 520 W / 2.7 GHz: ≥ 470 W / 3.8 GHz: ≥ 390 W								
Max. Attenuation 100% tested [dB at 20°C]	Cable	Attenuation max. = $L \times (a \times \sqrt{f} + b \times f)$ L = length in m, a = 0.115, b = 0.014, f = in GHz				Typical cable attenuation	DC .. 1.0 GHz	0.11 dB/m		
					up to 2.2 GHz		0.17 dB/m			
					up to 2.7 GHz		0.19 dB/m			
					up to 3.8 GHz		0.23 dB/m			
		Connectors	+ 0.04 dB; up to 3.8 GHz							
		Length	0.5 m	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m	5.0 m	6.0 m
		DC ÷ 1.0 GHz	0.10	0.17	0.23	0.30	0.43	0.56	0.69	0.81
		up to 2.2 GHz	0.14	0.24	0.34	0.44	0.64	0.85	1.05	1.25
		up to 2.7 GHz	0.15	0.27	0.38	0.49	0.72	0.95	1.17	1.40
		up to 3.8 GHz	0.18	0.32	0.46	0.59	0.87	1.15	1.43	1.70
	Length	7.0 m	8.0 m	9.0 m	10.0 m	11.0 m	12.0 m			
	DC ÷ 1.0 GHz	0.94	1.07	1.20	1.33	1.46	1.59			
	up to 2.2 GHz	1.45	1.65	1.85	2.05	2.26	2.46			
	up to 2.7 GHz	1.63	1.85	2.08	2.31	2.53	2.76			
	up to 3.8 GHz	1.98	2.26	2.54	2.81	3.09	3.37			

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



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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

4.3-10 straight female connector

Parameter	Value
Interface	Meet std. IEC 61169-54
Material	Body: Brass Centre contact: Brass Insulator: PTFE
Plating	Body: Silver or Tremetal Centre contact: Silver

Corrugated 1/2" HF (High Flexible) cable

Parameter	Condition	Value
Jacket	PE, black	max. Φ 13.6 mm
	Free of halogen	IEC 60754-1
	UV resistance	DIN EN ISO 4892

Marking and Packing

Marking	Description
Positioning	If cable \leq 1m: in cable centre // If cable $>$ 1m: 20 cm from moulding of connector (No. 2)
Printing	Manufacturer's trade name/mark // PO or Batch no. // Product description
Packing	1 Assembly in a plastic bag, with protection on connector interface

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RF Division
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