LISCA LTE

LiS-C9-11431X-16431X-XXXXX-52

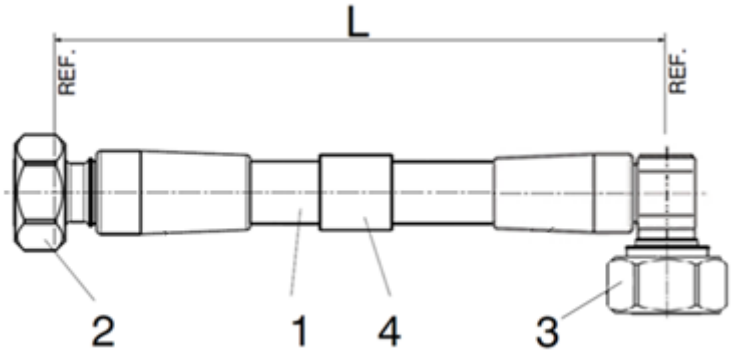
Cable: Corrugated 1/2" HF (High Flex)

Connectors: 1x straight male 4.3-10(X = HEX. nut) / 1x angle male 4.3-10(X = HEX. nut)

Description

LISCA LTE Assembly consisting of corrugated ½" high-flex coaxial cable with connectors 1x straight 4.3-10(X) male and 1x angle 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 ½" High Flex (S) with PE jacket	SUCOFEED_1/2" HF or equivalent
2	Connector type	4310(X = Hex. nut) straight male	LIS11_4310-50-9-XSTD
3	Connector type	4310(X = Hex. nut) angle male	LIS16_4310-50-9-XSTD
4	Marking	See Marking and Packing section	

Mechanical Data

Cable length	Length is measured from the outer conductor Ref. 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

Electrical Data

Impedance		50 Ω		
Frequency	max. operating	6 GHz		
Return loss (typ.) 100% tested	**Length**	**0.5m to 4m**	**>4m to 7m**	**>7m to 10m**
	DC - 1.00 GHz	32 dB	31 dB	30 dB
	1.70 - 2.20 GHz	30 dB	29 dB	28 dB
	2.20 - 2.70 GHz	28 dB	27 dB	26 dB
	3.40 - 3.80 GHz	25 dB	24 dB	23 dB
Intermodulation	IM3 / 100% tested	-117 dBm @ 2x20W (160 dBc) // typ. -120 dBm @ 2x20W (-163 dBc)		
RF Power	At 40°C / sea level	1.0 GHz: ≥ 780 W / 2.2 GHz: ≥ 520 W 2.7 GHz: ≥ 470 W / 3.8 GHz: ≥ 390 W		
Attenuation (typ.)	At 20°C / 100% tested	DC .. 1.0 GHz	≤ 0.11 dB/m (cable) + 0.040 dB (connector)	
		up to 2.2 GHz	≤ 0.17 dB/m (cable) + 0.045 dB (connector)	
		up to 2.7 GHz	≤ 0.19 dB/m (cable) + 0.050 dB (connector)	
		up to 3.8 GHz	≤ 0.23 dB/m (cable) + 0.060 dB (connector)	

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Environmental Data

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

Requirement of included components

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

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

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

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

Corrugated ½" HF (High Flexible) cable

Jacket	PE, black	max. Φ 13.6 mm
	Free of halogen	IEC 60754-1
	UV resistance	DIN EN ISO 4892
Performance	Relative propagation velocity	82 %

Marking and Packing

Marking	Positioning	If cable ≤ 1m: cable centre /If cable > 1m: 30 cm from moulding of connector (No. 2)
	Printing	Manufacturer / Part No / Jumper Serial No.
Packing	1 Assembly in a plastic bag, with protection on connector interface	

Ordering Information

LIS-C9-11431X-16431X-**XXXXX**-52

XXXXX = Length of assembly in millimetres

Example: LIS-C9-11431X-16431X-02000-52

Jumper cable made with connectors 1x straight male 4310(X) and 1x angle male 4310(X) using ½" high flex corrugated cable with length 2000 millimetres (6.5 ft).

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