

**LISCA LTE**

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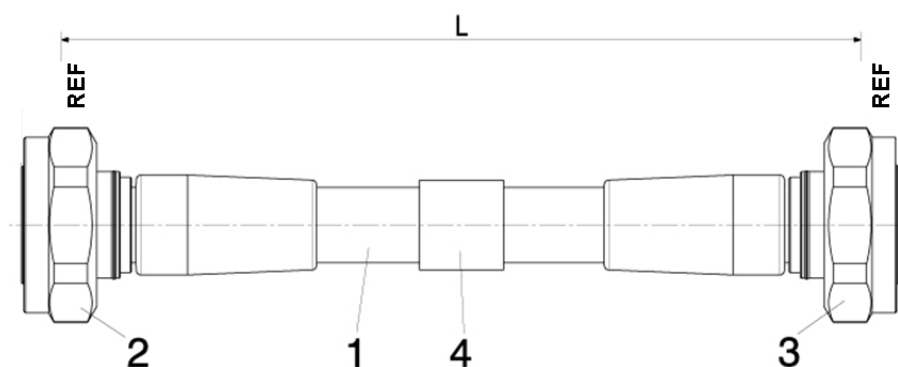
LIS-C12-11716-11716-XXXXX-52

SUCOFEED_1/2" (annular), 2 x DIN 7/16 male straight connectors

Description

LISCA LTE Assembly consisting of corrugated 1/2" flexible annular coaxial cable with connectors 2x straight DIN 7/16 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" flex annular with PE jacket	SUCOFEED_1/2" or equivalent
2	Connector type	DIN 7/16 straight male	LIS11_716-50-12
3	Connector type	DIN 7/16 straight male	LIS11_716-50-12
4	Marking	See Marking and Packing section	

Ordering Information

LIS-C12-11716-11716-XXXXX-52

XXXXX = Length of assembly in millimetres

Example: LIS-C12-11716-11716-02000-52

Jumper cable made with 2x DIN7/16 male straight connectors and 1/2" annular corrugated cable with length 2000 millimetres (6.5 ft).

Jumpers with rubber boot see: LIS-C12-11716B-11716B-XXXXX-52



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Electrical Data

Property	Description	Value									
Impedance		50 Ω									
Frequency	max. operating	6 GHz									
Return loss 100% tested	Length	0.5m to 5m			5m to 8m			8m to 12m			
	DC - 1.00 GHz	≥ 29 dB (typical 32 dB)			≥ 27 dB (typical 31 dB)			≥ 26 dB (typical 30 dB)			
	1.70 - 2.20 GHz	≥ 27 dB (typical 30 dB)			≥ 25 dB (typical 29 dB)			≥ 24 dB (typical 28 dB)			
	2.20 - 2.70 GHz	≥ 25 dB (typical 28 dB)			≥ 23 dB (typical 27 dB)			≥ 22 dB (typical 26 dB)			
	3.40 - 3.80 GHz	≥ 22 dB (typical 25 dB)			≥ 21 dB (typical 24 dB)			≥ 20 dB (typical 23 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: ≥ 1000 W / 2.2 GHz: ≥ 700 W / 2.7 GHz: ≥ 550 W / 3.8 GHz: ≥ 480 W									
Max. Attenuation 100% tested [dB at 20°C]	Cable	$IL = L \times (a \times \sqrt{f} + b \times f)$									
		L = cable length in m, a =0.075 , b = 0.012, f = frequency in GHz									
	Connectors	+ 0.04 dB									
	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	7.0 m	
	DC ÷ 1.0 GHz	0.08	0.13	0.17	0.21	0.30	0.39	0.48	0.56	0.65	
	up to 2.2 GHz	0.11	0.18	0.25	0.32	0.45	0.59	0.73	0.87	1.00	
	up to 2.7 GHz	0.12	0.20	0.27	0.35	0.51	0.66	0.82	0.97	1.13	
	up to 3.8 GHz	0.14	0.23	0.33	0.42	0.62	0.81	1.00	1.19	1.38	

Mechanical Data

Property	Description	Value
Cable length tolerance	Length is measured from the outer conductor interfaces of straight connectors	for cable up to 2m: +/-10mm for cable up to 5m: +/-30mm for cable > 5m: +/- 1 % of Length
Coupling nut torque	DIN 7/16 male (recommended)	25 ... 30 Nm
Bending radius	Single // Repeated (20 times)	min. 70 mm // min. 125 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

DIN 7/16 straight male connector

Parameter	Value
Interface	Meet std. IEC 61169-4
Coupling nut	HEX. 32 mm
Material	Body, nut and centre contact: Brass Insulator: PTFE
Plating	Body: Silver or Tremetal Centre contact: Silver Nut: Nickel or Tremetal

Corrugated 1/2" HF (High Flexible) cable

Parameter	Condition	Value
Jacket	PE, black	Max. Φ 16.3 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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Issued: 11/05/2021

Revision: J

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