



LISCA LTE

LIS-C9-11431X-11716-XXXXX-52

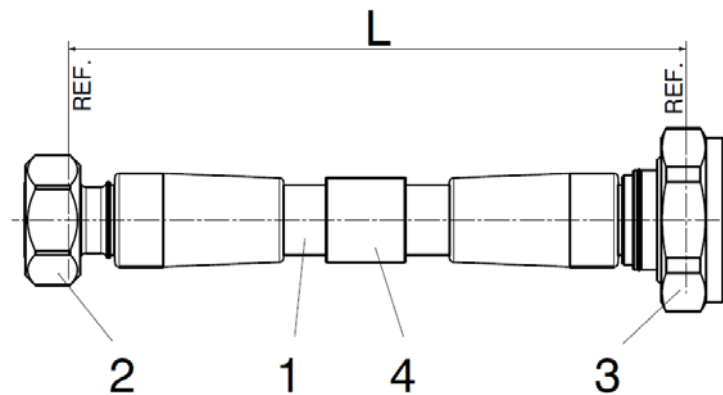
Cable: SUCOFEED 1/2" HF (High Flex),

Connectors: 1x straight male 4310(X = screwed) und 1x straight male DIN 7/16

Description

LISCA LTE Assembly consisting of corrugated 1/2" high flex coaxial cable with 1x straight 4310(X) male and 1x straight DIN 7/16 male connectors for frequencies DC to 6 GHz.
(LISCA = Low Loss Soldered Corrugated Cable Assemblies)

Mechanical Diagram



List of Components

Item	Components	Description	Type
1	Cable type	Corrugated coax cable 1/2" High Flex with PE jacket	SUCOFEED_1/2" HF or equivalent cable
2	Connector type	4310(X) straight male	LIS11_4310-50-9-XSTD
3	Connector type	DIN 7/16 straight male	LIS11_716-50-9-STD
4	Marking	See Marking and Packing section	

Ordering Information

LIS-C9-11431X-11716-XXXXX-52

XXXXX = Length of assembly in millimetres

Example: LIS-C9-11431X-11716-02000-52

Jumper cable made with 1x straight male 4310(X) and 1x straight male DIN7/16 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	Length	0.5m to 5m		5m to 8m		8m to 12m	
	DC ... 1.0 GHz	≥ 28 dB		≥ 26 dB		≥ 24 dB	
	1.0 ... 2.2 GHz	≥ 26 dB		≥ 24 dB		≥ 22 dB	
	2.2 ... 2.7 GHz	≥ 23 dB		≥ 22 dB		≥ 20 dB	
Intermodulation	IM3 (2x20W)	typical: -162 dBc // min. -150 dBc					
RF power (on sea level)	at 40°C	up to 1000 MHz: ≥ 700 W up to 2200 MHz: ≥ 500 W up to 2700 MHz: ≥ 370 W					
Attenuation [dB at 20°C]	Length	0.5m	1m	1.5m	2m	2.5m	3m
	DC ÷ 1.0 GHz	0.07	0.13	0.20	0.28	0.33	0.39
	up to 2.2 GHz	0.11	0.21	0.32	0.42	0.53	0.63
	up to 2.7 GHz	0.17	0.28	0.39	0.50	0.61	0.72
	Length	3.5m	4m	4.5m	5m	5.5m	6m
	DC ÷ 1.0 GHz	0.46	0.52	0.58	0.65	0.75	0.85
	up to 2.2 GHz	0.74	0.84	0.94	1.05	1.18	1.22
	up to 2.7 GHz	0.83	0.94	1.05	1.18	1.31	1.45
	Length	6.5m	7m	7.5m	8m		
	DC ÷ 1.0 GHz	0.95	1.05	1.15	1.25		
	up to 2.2 GHz	1.36	1.50	1.65	1.90		
	up to 2.7 GHz	1.60	1.75	1.90	2.05		

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	For 4310(X) male connector (recommended) For DIN 7/16 male connector (recommended)	min. 5 Nm min. 25 Nm
Bending radius	Single Repeated (15 times) Cable bending must start after the moulded connector cable entry protection!	min. 25 mm min. 50 mm

Environmental data

Property	Description	Value
Temperature range	Operating Installation	-40° C to +85° C -25° C to +60° C
Waterproof rate	0.1 bar, 24 h, 20°C	IP68
RoHS (2002/95/EC)	Lead free solder	Compliant



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Requirement of included components

4310(X) straight male connector for screwed application

Parameter	Value
Interface	Meet std. IEC 61169-xx (pending)
Coupling nut	HEX. 22 mm
Material	Body, nut and centre contact: brass Insulator: PTFE
Plating	Body and centre contact: silver

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 and centre contact: silver

Corrugated 1/2" HF (High Flexible) cable

Parameter	Condition	Value
Jacket	PE, black, free of halogen	max. Φ 13.6 mm

Marking and Packing

Marking	Description
Positioning	If cable \leq 1m: in cable centre If cable $>$ 1m: 20 cm from connector 1
Printing	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

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