



## MULTI-PORT Jumper

## LIS-C5-11MQ5X-5x214310-XXXXX-53

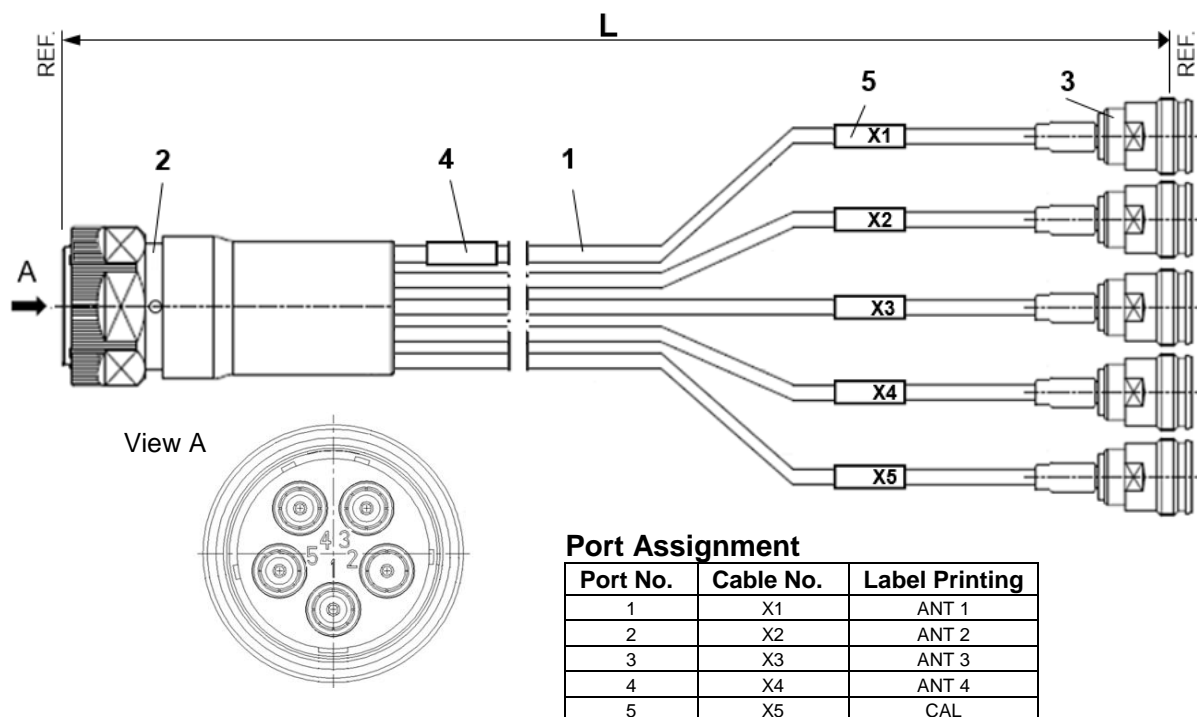
Cable: 5x SUCOFEEED 1/4" HFX (High Flex, X = cross linked)

Connectors: 1x straight male MQ4X (screw / HEX. nut) and 5x straight female 4.3-10

## Description

**Multi Coax Assembly** consisting of corrugated 1/4" high flex (X, cross linked) coaxial cable with connectors 1x straight male MQ4X and 5x straight female 4.3-10 for frequencies DC to 6 GHz.

## Mechanical Diagram



Port Assignment

Port No.	Cable No.	Label Printing
1	X1	ANT 1
2	X2	ANT 2
3	X3	ANT 3
4	X4	ANT 4
5	X5	CAL

## List of Components

Pos	Components	Description	Type
1	Cable type	Corrugated 1/4" High Flex cross linked with PE jacket	SUCOFEEED_1/4" HFX
2	Connector type	MQ4X straight male screw version	11_MQ4-50-5-X1
3	Connector type	4.3-10 straight female (5x)	LIS21_4310-50-5-STD
4,5	Marking	See Marking and Packing section	

## Electrical Data (values per single cable)

Impedance		50 Ω	Frequency: 6 GHz (max. operating)							
Return loss	100% tested	Frequency	Up to 5m			Frequency		Up to 5m		
		DC - 1.00 GHz	≥ 28 dB			3.30 - 4.20 GHz		≥ 21 dB		
		1.70 - 2.20 GHz	≥ 26.5 dB			4.40 - 5.00 GHz		≥ 19 dB		
		2.20 - 2.70 GHz	≥ 25 dB			5.15 - 5.95 GHz		≥ 17 dB		
Intermodulation		IM3 (2x20W) ≤ -155 dBc (typical: -163 dBc) / at 1.8 GHz or alternative at 0.9 GHz								
Max. Attenuation (at 20°C)		Length	0.5 m	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m	4.0 m	5.0 m
		DC ÷ 1.00 GHz	0.14 dB	0.25 dB	0.36 dB	0.47 dB	0.57 dB	0.68 dB	0.90 dB	1.12 dB
		up to 2.20 GHz	0.20 dB	0.37 dB	0.54 dB	0.71 dB	0.88 dB	1.05 dB	1.39 dB	1.73 dB
		up to 2.70 GHz	0.22 dB	0.41 dB	0.61 dB	0.80 dB	0.99 dB	1.18 dB	1.57 dB	1.95 dB
		up to 4.20 GHz	0.28 dB	0.53 dB	0.78 dB	1.03 dB	1.28 dB	1.53 dB	2.03 dB	2.53 dB
	up to 5.00 GHz	0.31 dB	0.59 dB	0.86 dB	1.14 dB	1.42 dB	1.70 dB	2.25 dB	2.81 dB	
	up to 5.95 GHz	0.34 dB	0.65 dB	0.96 dB	1.27 dB	1.58 dB	1.89 dB	2.50 dB	3.12 dB	
RF power		25°C (sea level)	150W @ 2GHz							

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**LIS-C5-11MQ5X-5x214310-XXXXX-53**

Cable: 5x SUCOFEED 1/4" HFX (High Flex, X = cross linked)

Connectors: 1x straight male MQ4X (screw / HEX. nut) and 5x straight female 4.3-10

**Mechanical Data**

Cable length	REF. to REF. of connector interfaces	up to 2m: +/-10mm // up to 3m: +/-30mm
Coupling nut torque	MQ4X or MQ5X male connector (recommended) 4.3-10 female connector (recommended)	25 Nm 5 ... 8 Nm
Bending radius	Single // Repeated (20 times)	min. 25 mm // min. 50 mm
Cable bending must start after the molded connector cable entry protection!		

**Environmental Data**

Temperature range	Operating // Installation // Storage	-40° C to +105° C // -25° C to +60° C // -70° C to +85° C
Waterproof rate	IP68 (0.1 bar, 1 h, 20°C)	RoHS (2011/65/EU) / Lead free solder : compliant

**Requirement of included components****MQ4X straight male connector (HEX. nut)**

Interface	MQ5 / Meet std. IEC 63138-3	Coupling nut: HEX. 32 mm
Material / Plating	Body: Brass / NiSn Nut: Brass / Ni or NiSn	Centre contact: CuBe / Silver Insulator PTFE

**4.3-10 straight female connector**

Interface	4.3-10 / Meet std. IEC 61169-54	Coupling nut: HEX. 22 mm
Material / Plating	Body: Brass / Silver or Trimetal Nut: Brass / Ni or Trimetal	Centre contact: Brass / Silver Insulator PTFE

**Corrugated 1/4" HFX (High Flexible, cross linked) cable**

Jacket	PEX, black (Polyethylene cross-linked)	Max. $\Phi$ 8.0 mm	UV resistance: compliant
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**Marking and Packing**

Positioning Label	Main label (No. 4): 10 cm from moulding MQ4X Cable label (No.5): 5 cm from moulding of connector No. 3
Printing	Main Label: Manufacturer's trade name/mark // PO or Batch no. // Product item No. Labels on cables: according mechanical diagram (page 1)
Packing	1 Assembly in a plastic bag, with protection on connector interfaces

**Ordering Information / Product Description**

LIS-C5-11MQ5X-5x214310-XXXXX-53 / XXXXX = Length of assembly in millimeters

Example: LIS-C5-11MQ5X-5x214310-02000-53

Jumper cable made with connectors 1x straight male MQ5X and 5x straight female 4.3-10 using corrugated cross linked cable 1/4" high flex with length 2000 millimeters (6.5 ft.).

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