MULTI-PORT Jumper

LIS-C5X-11MQ5X-5x11431X-XXXXX-53

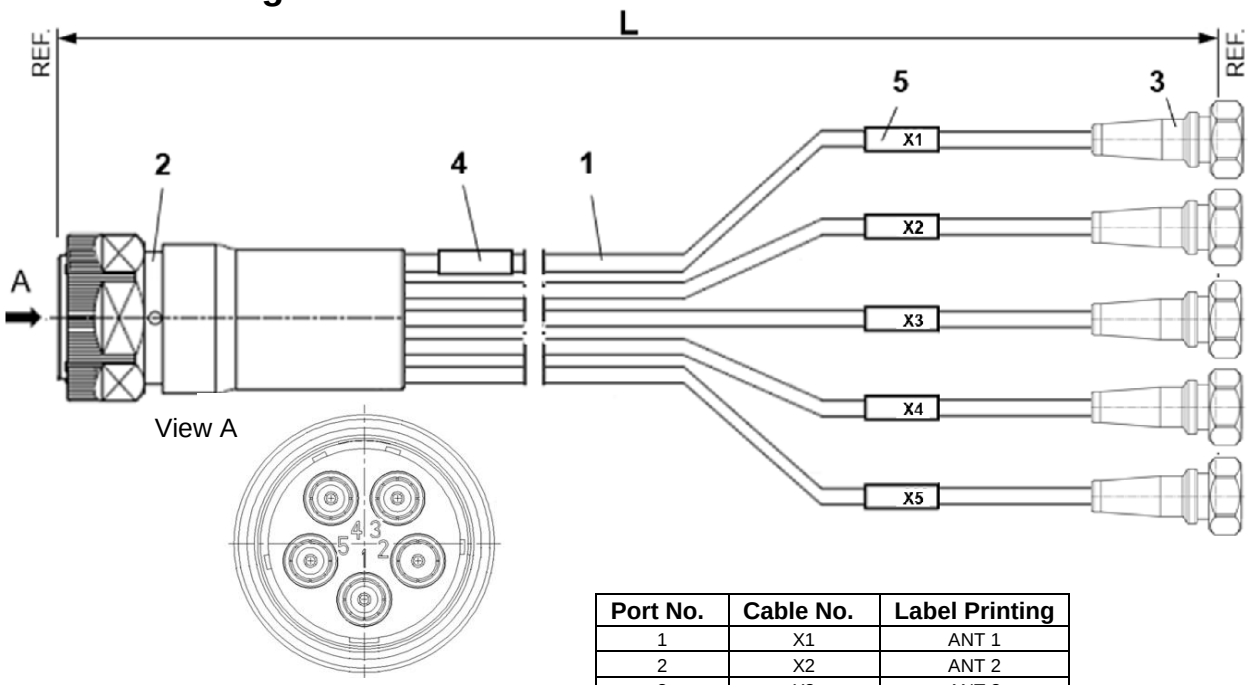
Cable: 5x SUCOFEED 1/4" HFX (High Flex, X = cross linked)

Connectors: 1x straight male MQ4X(screw/HEX.nut) + 5x straight male 4.3-10(X=screw/HEX.nut)

Description

Multi Coax Assembly consisting of corrugated 1/4" high flex (X, cross linked) coaxial cable with connectors 1x straight male MQ5X and 5x straight male 4.3-10(X) for frequencies DC to 6 GHz.

Mechanical Diagram



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

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List of Components

Pos	Components	Description	Type
1	Cable type	Corrugated 1/4" High Flex cross linked with PE jacket	SUCOFEED_1/4" HFX
2	Connector type	MQ5X straight male screw version	11_MQ5-50-5-X1
3	Connector type	4.3-10(X) straight male (5x)	LIS11_4310-50-5-XSTD
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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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(X) (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	-40º C to +105º C // -25º C to +60º C // -70º C to +85º C
Waterproof rate	IP68 (0.1 bar, 1 h, 20°C)	RoHS (2011/65/EU) / Lead free solder : compliant

Requirement of included components

MQ5X straight male connector (HEX. nut)

Interface	MQ5X / 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(X) straight male connector (HEX. nut)

Interface	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. Φ 8.0 mm	UV resistance: compliant

Marking and Packing

Positioning Label	Main label (No. 4): 10 cm from moulding MQ5X 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-C5X-11MQ5X-5x11431X-**XXXXX**-53 / **XXXXX = Length of assembly in millimeters**

Example: LIS-C5X-11MQ5X-5x11431X-02000-53

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

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