



## MULTI-PORT Jumper

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## LIS-C5X-11MQ4X-4x11NXX-XXXXX-53

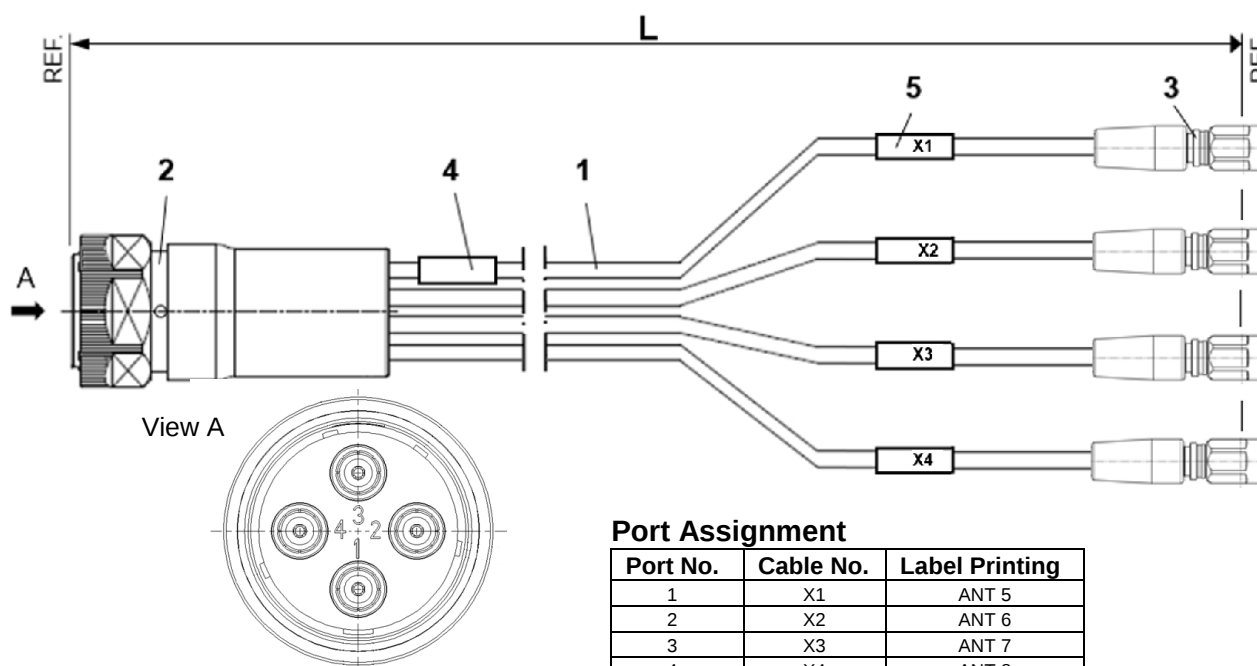
Cable: 4x SUCOFEED 1/4" HFX (High Flex, X = cross linked)

Connectors: 1x straight male MQ4X(screw/HEX.nut) + 4x straight male NEX10(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 MQ4X and 4x straight male NEX10(X) for frequencies DC to 6 GHz.

## Mechanical Diagram



Port Assignment

| Port No. | Cable No. | Label Printing |
|----------|-----------|----------------|
| 1        | X1        | ANT 5          |
| 2        | X2        | ANT 6          |
| 3        | X3        | ANT 7          |
| 4        | X4        | ANT 8          |

## 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 | NEX10(X) straight male (4x)                           | LIS11_NEX10-50-5-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.<br>Attenuation<br>(at 20°C) | 100% tested | 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                                                           |         |         |                 |         |          |         |         |

**MULTI-PORT Jumper****LIS-C5X-11MQ4X-4x11NXX-XXXXX-53**

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

Connectors: 1x straight male MQ4X(screw/HEX.nut) + 4x straight male NEX10(X=screw/HEX.nut)

**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)<br>NEX10(X) (recommended) | 25 Nm<br>1.5 ... 2.5 Nm (max. 3 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          | MQ4 / Meet std. IEC 63138-2                   | Coupling nut: HEX. 32 mm                        |
| Material / Plating | Body: Brass / NiSn<br>Nut: Brass / Ni or NiSn | Centre contact: CuBe / Silver<br>Insulator PTFE |

**NEX10(X) straight male connector (HEX. nut)**

|                    |                                                                 |                                                  |
|--------------------|-----------------------------------------------------------------|--------------------------------------------------|
| Interface          | NEX10(X) / Meet std. IEC 61169-71                               | Coupling nut: HEX. 11 mm                         |
| Material / Plating | Body: Brass / Silver or Trimetal<br>Nut: Brass / Ni or Trimetal | Centre contact: Brass / Silver<br>Insulator PTFE |

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

|        |                                           |               |                          |
|--------|-------------------------------------------|---------------|--------------------------|
| Jacket | PEX, black<br>(Polyethylene cross-linked) | Max. Ø 8.0 mm | UV resistance: compliant |
|--------|-------------------------------------------|---------------|--------------------------|

**Marking and Packing**

|                   |                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Positioning Label | Main label (No. 4): 10 cm from moulding MQ4X<br>Cable label (No.5): 5 cm from moulding of Connector Pos. 3                                   |
| Printing          | Main Label: Manufacturer's trade name/mark // PO or Batch no. // Product item No.<br>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-11MQ4X-4x11NXX-XXXXX-53 / XXXXX = Length of assembly in millimeters

Example: LIS-C5X-11MQ4X-4x11NXX-02000-53

Jumper cable made with connectors 1x straight male MQ4X and 4x straight male NEX10(X) using corrugated cross linked cable 1/4" high flex with length 2000 millimeters (6.5 ft.).

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