



All dimensions are in mm; tolerances: ± 3mm for A ≤ 300 mm; ± 1% for A > 300 mm
*) movably

Available variants

| Type | max. Insertion loss at 20 GHz | Marking | Weight (g) / pce |
|-----------------|--------------------------------|--|----------------------------|
| L99-A0481-XXX-Y | ≤ 0.0055 dB/mm * A mm + 0.6 dB | ROSENBERGER YYYYY-WW L99-A0481-XXX-Y FAC-RRRRRRR | 0.011 g/mm * A mm + 11.5 g |

XXX – length in mm = A

Y – pair matching (non, 2ps)

WW – week

YYYY – year

zzzz – individual serial no.

FAC – Factory Code

RRRRRRR – lot no.

Note:

max. Insertion Loss:

First constant = Cable attenuation in dB/mm; Second Constant = Connector left and Connector right +needed Adaptor

Weight:

First constant = Cable- and Armour- weight per mm; Second Constant = Connector left and Connector right weight per pce

Assembly parts

| | | |
|-----------------|----------------|--------------|
| Connector left | Mini Coax plug | 23S104-270L5 |
| Connector left | Mini Coax jack | 23K104-270L5 |
| Connector right | SMA plug | 32S102-270L5 |
| Cable | RTK 047 | |

Assembly parts

| | |
|----------------------|------------|
| Assembly instruction | 23 MV-A008 |
|----------------------|------------|

Technical Data Sheet

Rosenberger

Cable Set

Mini Coax Plug / Jack – SMA Plug – RTK 047

L99-A0481-XXX-Y

Electrical data

| | |
|-----------------------------|----------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 20 GHz |
| Return loss ¹ | ≥ 16 dB, DC to 20 GHz |
| Insertion loss ¹ | see table available variants |
| Phasematched by pairs | depending on Part Number |
| | non – non matched |
| | 2ps – max. 2 ps delay difference |

Individual testing

The S-Parameters (S11, S22, S21, S12) will be tested and the cable pairs are measured for phase matching.:

¹ Return Loss and Insertion Loss includes the measurement adaptor

Mechanical data

| | |
|----------------------|---------|
| Minimum bend radius: | |
| Single | 5.1. mm |
| Multiple | 10.2 mm |

Housing

| | |
|-----------|------------|
| 2 Channel | 23Z121-008 |
| 4 Channel | 23Z121-007 |
| 6 Channel | 23Z121-004 |
| 8 Channel | 23Z121-005 |

Tooling

| | |
|-----------------|------------|
| Extraction tool | 23W100-000 |
|-----------------|------------|

Environmental data

| | |
|-------------------|-----------------|
| Temperature range | -40°C to +115°C |
| RoHS | compliant |

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|-----------|----------|-----------|----------|------|---------------------------|------------|----------|
| F. Reiner | 17.09.19 | F. Reiner | 08.03.23 | b00 | 23-0367 | J. Rohloff | 08.03.23 |

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