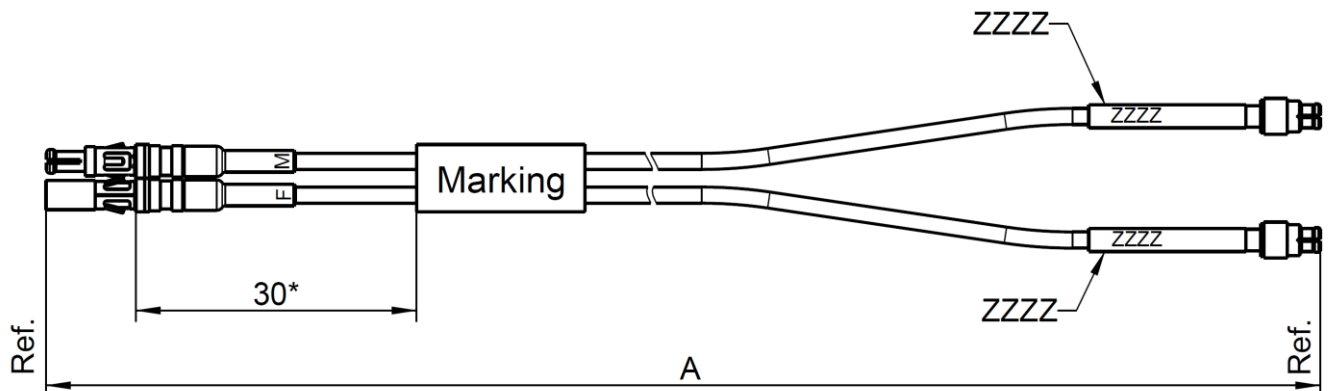


Technical Data Sheet

Rosenberger

Cable Set
Mini Coax Plug / Jack – Mini-SMP Jack – RTK 047

L99-A0487-XXX-Y



All dimensions are in mm; tolerances: $\pm 3\text{mm}$ for $A \leq 300\text{ mm}$; $\pm 1\%$ for $A > 300\text{ mm}$
*) movably

Available variants

| Type | max. Insertion loss at 40 GHz | Marking | Weight (g) / pce |
|-----------------|--|--|--|
| L99-A0487-XXX-Y | $\leq 0.0073\text{ dB/mm} * A\text{ mm} + 1.2\text{ dB}$ | ROSENBERGER YYY-YY L99-A0487-XXX-Y FAC-RRRRRRR | $0.011\text{ g/mm} * A\text{ mm} + 1.4\text{ g}$ |

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 | Mini-SMP jack | 18K101-270L5 |
| Cable | RTK 047 | |

Assembly parts

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

Cable Set

Mini Coax Plug / Jack – Mini-SMP Jack – RTK 047

L99-A0487-XXX-Y

Electrical data

Impedance 50 Ω
 Frequency DC to 40 GHz
 Return loss¹ ≥ 14 dB, DC to 20 GHz
 ≥ 10 dB, 20 GHz to 40 GHz
 Insertion loss¹ 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 fore 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 | 19.09.19 | H. Babinger | 19.01.22 | a00 | 22-s036 | J. Rohloff | 19.01.22 |

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Page
 2 / 2