



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

Available variants

| Type | max. Insertion loss at 20 GHz | Marking | Weight (g) / pce |
|-------------|--|---|--|
| L99-813-XXD | $\leq 0.0050 \text{ dB/mm} * A \text{ mm} + 0.60 \text{ dB}$ | ROSENBERGER YYYYY-WW L99-813-XXD FAC-RRRRRRR ssss | $0.044 \text{ g/mm} * A \text{ mm} + 42.5 \text{ g}$ |

XX – length in cm D=8 Channel A=XX*10
 WW – week YYYY – year ssss – serial no. FAC – Factory Code RRRRRRR – lot nr.

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

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RF_35/09.14/6.2

Technical Data Sheet

Rosenberger

Cable assembly

Mini Coax Plug/Jack - SMA Plug - RTK 047 Cable

L99-813-XXD

Assembly parts

| | | |
|-----------------|----------------|----------------------------------|
| Connector left | Mini Coax plug | 23S103-270L3 |
| Connector left | Mini Coax jack | 23K103-270L3 |
| Connector right | SMA plug | 32S102-270L5 |
| Cable | RTK 047 | |
| Housing | 23Z121-005 | (8 channel) Luranyl KR 2402 gray |

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 |
| Phase matched by pairs | max. 2ps 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 |

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.

| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|--------------|----------|------------------|----------|------|---------------------------|-------------------|----------|
| Martin Moder | 30.07.15 | Armin Maiwalder | 05.08.15 | b00 | 15-s309 | Kathrina Mitterer | 05.08.15 |

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