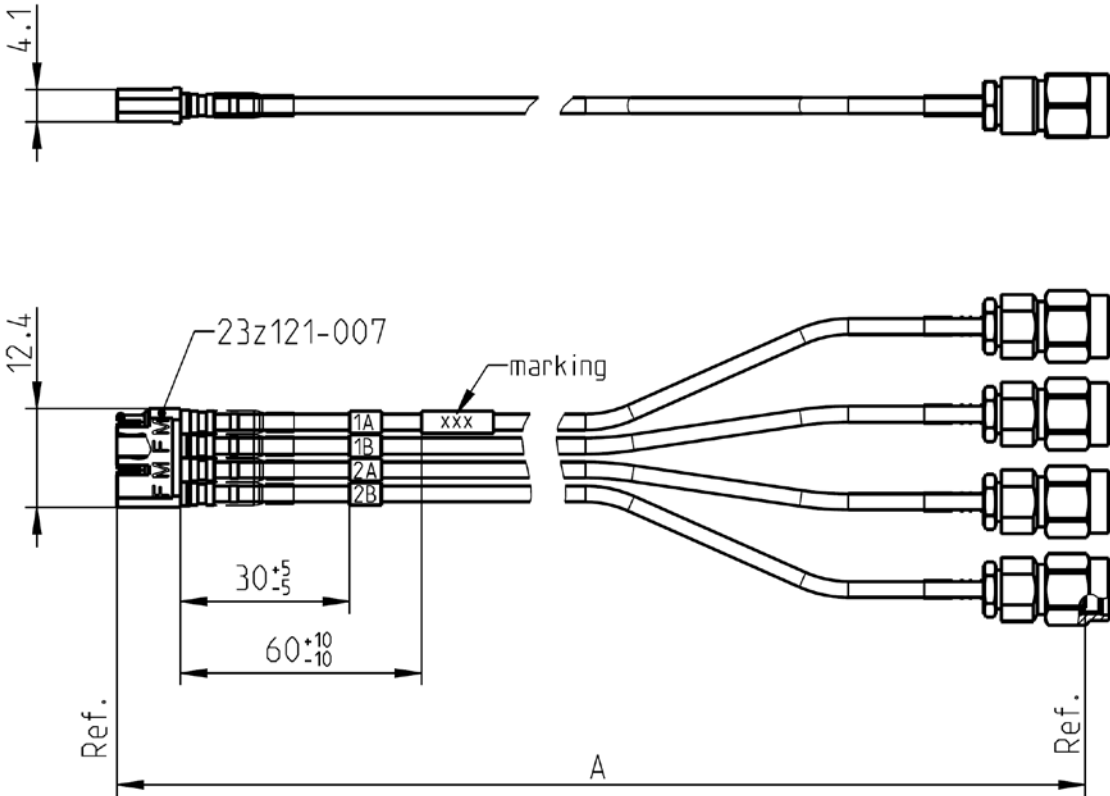


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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |                                                        |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------|----------------------------|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 | Rosenberger                                            |                            |
| Cable assembly<br>Mini Coax Plug/Jack - SMA Plug - RTK 047 Cable                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | L99-815-XXE                                            |                            |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                                        |                            |
| 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           |
| L99-815-XXE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ≤ 0.0050 dB/mm * A mm + 0.60 dB | ROSENBERGER YYYY-WW<br>L99-815-XXE<br>FAC-RRRRRRR ssss | 0,022 g/mm * A mm + 21,4 g |
| <div><div>XX – length in cm<br/>WW – week</div><div>E=4 Channel<br/>YYYY – year</div><div>A=XX*10<br/>ssss – serial no.</div><div>FAC – Factory Code</div><div>RRRRRRR – lot nr.</div></div> <div>Note: max. Insertion Loss:<br/>First constant = Cable attenuation in dB /mm; Second Constant = Connector left and Connector right +needed Adaptor</div> <div>Weight:<br/>First constant = Cable- and Armour- weight per mm; Second Constant = Connector left and Connector right weight per pce</div> |                                 |                                                        |                            |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | Page<br>1 / 2                                          |                            |

|                                                                                                                                                                                                                                                                                                                                              |                              |                  |          |                                                                                              |                           |                   |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|----------|----------------------------------------------------------------------------------------------|---------------------------|-------------------|---------------|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                         |                              |                  |          | Rosenberger                                                                                  |                           |                   |               |
| Cable assembly<br>Mini Coax Plug/Jack - SMA Plug - RTK 047 Cable                                                                                                                                                                                                                                                                             |                              |                  |          | L99-815-XXE                                                                                  |                           |                   |               |
| 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                                                                                                                                                                                                                                                                                                                                      | 23Z121-007                   |                  |          | (4 channel) Luranyl KR 2402 gray                                                             |                           |                   |               |
| Electrical data                                                                                                                                                                                                                                                                                                                              |                              |                  |          |                                                                                              |                           |                   |               |
| Impedance                                                                                                                                                                                                                                                                                                                                    | 50 Ω                         |                  |          |                                                                                              |                           |                   |               |
| Frequency                                                                                                                                                                                                                                                                                                                                    | DC to 20 GHz                 |                  |          |                                                                                              |                           |                   |               |
| Return loss <sup>1</sup>                                                                                                                                                                                                                                                                                                                     | ≥ 16 dB, DC to 20 GHz        |                  |          |                                                                                              |                           |                   |               |
| Insertion loss <sup>1</sup>                                                                                                                                                                                                                                                                                                                  | see table available variants |                  |          |                                                                                              |                           |                   |               |
| Phase matched by pairs                                                                                                                                                                                                                                                                                                                       | max. 5ps delay difference    |                  |          |                                                                                              |                           |                   |               |
| Individual testing:<br>The S-Parameters (S11; S22; S21; S12) will be tested and the cable pairs are measured for phase matching                                                                                                                                                                                                              |                              |                  |          |                                                                                              |                           |                   |               |
| <sup>1</sup> 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                                                                                                                                                                                                                                                                                                                                 | 27.07.15                     | Herbert Babinger | 31.07.15 | c00                                                                                          | 15-1020                   | Kathrina Mitterer | 31.07.15      |
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