



**Contents**

| Device                                                     | Part number | Quantity |
|------------------------------------------------------------|-------------|----------|
| Cable assembly<br>RPC-2.92 ruggedized jack / RPC-2.92 plug | LU1-005-600 | 2        |

**Documents**

Technical data sheet cable assembly:  
RPC-2.92 ruggedized jack / RPC-2.92 plug

LU1-005-XXX

**Electrical data**

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Impedance                    | 50 Ω                                                 |
| Frequency                    | DC to 40 GHz                                         |
| Return loss                  | ≥ 26 dB, DC to 4 GHz<br>≥ 17 dB, 4 GHz to 40 GHz     |
| Insertion loss               | ≤ 2.00 dB at 40 GHz                                  |
| Phase deviation:             |                                                      |
| After 90° bending            | ≤ 1.3°, DC to 4 GHz<br>≤ 6.0°, 4 GHz to 40 GHz       |
| Straight after 3x90° bending | ≤ 1.0°, DC to 4 GHz<br>≤ 4.0°, 4 GHz to 40 GHz       |
| Amplitude stability          | ≤ 0.03 dB, DC to 4 GHz<br>≤ 0.08 dB, 4 GHz to 40 GHz |
| Return loss stability        | ≥ 45 dB, DC to 4 GHz<br>≥ 35 dB, 4 GHz to 40 GHz     |
| RF-leakage                   | ≥ 100 dB up to 1 GHz                                 |

**Mechanical data**

|                     |       |
|---------------------|-------|
| Minimum bend radius | 60 mm |
|---------------------|-------|

**Environmental data**

|                                        |                             |
|----------------------------------------|-----------------------------|
| Temperature range<br>2002/95/EC (RoHS) | -40°C to +85°C<br>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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------|------|--------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Herbert Babinger                                                                                                                                       | 05/10/07 | Frank Tatzel | 01/03/11 | c00  | 11-0169                                                                                                            | Krautenbacher J. | 01/03/11      |
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