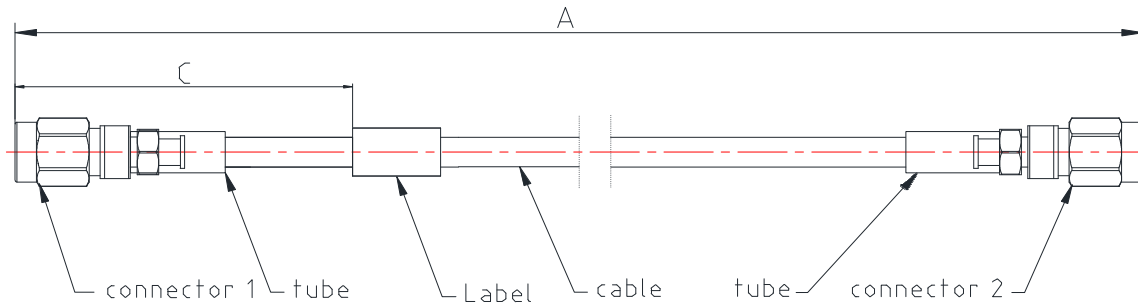


## CABLE ASSEMBLY RPC-1.85 MALE / RPC-1.85 MALE

## LU5-C312-XXX



All dimensions are in mm; tolerances according to ISO 2768 c

### Parts

|             |                                   |               |
|-------------|-----------------------------------|---------------|
| Connector 1 | RPC-1.85 male                     | R08S141-2U5S3 |
| Connector 2 | RPC-1.85 male                     | R08S141-2U5S3 |
| Cable       | RTK 092-70-YB(or equivalent type) |               |
| Tube        | Shrinking tube                    |               |
| Label       | Label Stick                       |               |

### Available Variants Weight

| Part Number   | Customer Number | Length A[mm] | C[mm]  | Insertion Loss<br>≤(dB) at 67GHz | Weight<br>[Gram] |
|---------------|-----------------|--------------|--------|----------------------------------|------------------|
| LU5-C312-100  | NA              | 100±10       | 35±10  | 1.9                              | 21.6             |
| LU5-C312-150  | NA              | 150±10       | 65±10  | 2.3                              | 22.5             |
| LU5-C312-200  | NA              | 200±10       | 85±10  | 2.6                              | 23.2             |
| LU5-C312-250  | NA              | 250±10       | 100±10 | 3.0                              | 24.0             |
| LU5-C312-254  | NA              | 254±10       | 100±10 | 3.0                              | 24.2             |
| LU5-C312-300  | NA              | 300±10       | 100±10 | 3.4                              | 24.9             |
| LU5-C312-305  | NA              | 305±10       | 100±10 | 3.4                              | 24.9             |
| LU5-C312-350  | NA              | 350±10       | 100±10 | 3.6                              | 25.3             |
| LU5-C312-500  | NA              | 500±10       | 100±10 | 3.9                              | 28.1             |
| LU5-C312-600  | NA              | 600±10       | 100±10 | 4.5                              | 29.8             |
| LU5-C312-650  | NA              | 650±10       | 100±10 | 4.8                              | 30.7             |
| LU5-C312-800  | NA              | 800±10       | 100±10 | 5.6                              | 33.8             |
| LU5-C312-914  | NA              | 914±10       | 200±10 | 6.5                              | 34.9             |
| LU5-C312-1000 | NA              | 1000±10      | 200±10 | 6.9                              | 36.3             |
| LU5-C312-1200 | NA              | 1200±10      | 200±10 | 8.3                              | 39.6             |
| LU5-C312-1500 | NA              | 1500±10      | 200±10 | 10.6                             | 44.5             |
| LU5-C312-2000 | NA              | 2000±10      | 200±10 | 13.8                             | 52.3             |
| LU5-C312-3000 | NA              | 3000±30      | 200±10 | 20.2                             | 69.1             |

### Electrical data

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Impedance                   | 50 Ω                                                 |
| Frequency                   | DC-67GHz                                             |
| Return Loss                 | ≥12.7dB to DC-67GHz                                  |
| Insertion loss              | see table available variants                         |
| Phase stability vs. Flexure | ±6°to 18GHz (Wrapped around a 50mm diameter mandrel) |

## Technical Data Sheet

# Rosenberger

CABLE ASSEMBLY  
RPC-1.85 MALE / RPC-1.85 MALE

**LU5-C312-XXX**

### Mechanical data

Single  
Multiple  
Cable Diameter  
9mm  
23mm  
2.33mm

### Environmental data

Temperature range  
RoHS  
-40°C to 125°C  
compliant

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| Draft       | Date     | Checker | Approved | Date     | Rev. | Engineering change number | Name | Date     |
|-------------|----------|---------|----------|----------|------|---------------------------|------|----------|
| Qiaochang'e | 11/02/20 | Huidong | Binhong  | 11/02/20 | a    | NA                        | Qiao | 11/02/20 |

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Page

2 / 2