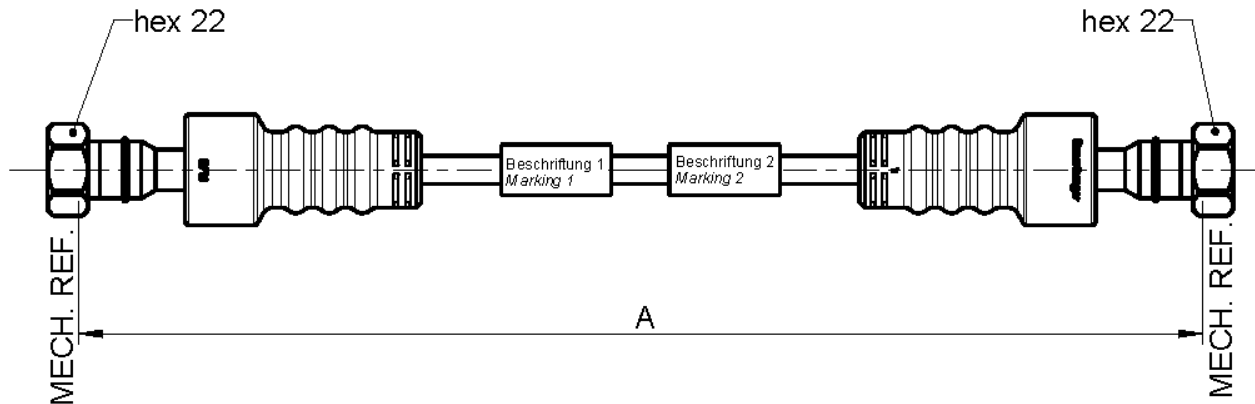




### Function Description

This part is a coaxial cable assembly for telecommunication equipment. It consists of 1/4" super flexible coaxial cable with PE jacket, two 4.3-10 male connectors and two Rosenberger Jumper Boots for additional protection of the connectors. The assembly is waterproof in mated condition and UV protected.

### Available Variants

The assembly is available in lengths from 0.5 m to 10 m in intervals of 0.5 m. Different feet and inch length are available on request.

### Assembly Parts

|                 |                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Connector       | 4.3-10 male connectors (screw-type) plated with white bronze                                                                           |
| Cable           | S-Link 1/4"S, PE jacket                                                                                                                |
| Marking 1       | Direct print onto the cable or one wrapping label<br>Marking includes manufacturer, part nr. & batch no.                               |
| Marking 2       | Direct print onto the cable or on wrapping label<br>Marking includes "Rosenberger factory made"<br>Position in the middle of the cable |
| Bend Protection | molding material TPE compound                                                                                                          |
| Protection Boot | Self-lubricating Silicone                                                                                                              |

### Electrical Data

|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| Impedance                              | 50 $\Omega$                                             |
| Frequency                              | DC to 2.7 GHz                                           |
| Return loss                            |                                                         |
| DC – 1 GHz                             | $\geq 32$ dB                                            |
| 1 – 2.2 GHz                            | $\geq 30$ dB                                            |
| 2.2 – 2.7 GHz                          | $\geq 28$ dB                                            |
| Insertion loss typ.                    |                                                         |
| DC – 1 GHz                             | $\leq 0.20$ dB/m (cable) + $0.01$ dB * $\sqrt{f}$ (GHz) |
| 1 – 2.2 GHz                            | $\leq 0.30$ dB/m (cable) + $0.01$ dB * $\sqrt{f}$ (GHz) |
| 2.2 – 2.7 GHz                          | $\leq 0.34$ dB/m (cable) + $0.01$ dB * $\sqrt{f}$ (GHz) |
| Intermodulation (3rd order @ 2 x 20 W) | typ. max.                                               |
|                                        | $\leq -120$ dBm $\leq -117$ dBm                         |
| Relative Velocity of Propagation       | 83 %                                                    |
| DC breakdown voltage                   | 2000 V                                                  |

### Mechanical Data

|                                                            |             |
|------------------------------------------------------------|-------------|
| Coupling torque (recommended)                              | 5 to 8 Nm   |
| Spanner flat on coupling nut                               | 22 mm       |
| Cable diameter, jacket                                     | 7.7 mm typ. |
| Tensile strength                                           | 500 N       |
| Recommended hanger spacing                                 | 0.6 m       |
| Minimum bend radius single                                 | 13 mm*      |
| Minimum bend radius repeated                               | 25 mm*      |
| *Bending starts behind connector incl. the kink protection |             |

### Environmental Data

|                                |                                       |
|--------------------------------|---------------------------------------|
| Operation temperature range    | -40 °C to +80 °C                      |
| Installation temperature range | -25 °C to +60 °C                      |
| Degree of protection           | IEC 60529, IP68 1 bar for 1 h (mated) |
| 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           |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|----------------|
| M. Wimmer                                                                                                                                 | 27.07.2015 | Chr. Janssen | 13.11.2017 | 100                                                                                                                                                    | 17-v776                   | S. Huber-Siegl | 13.11.2017     |
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