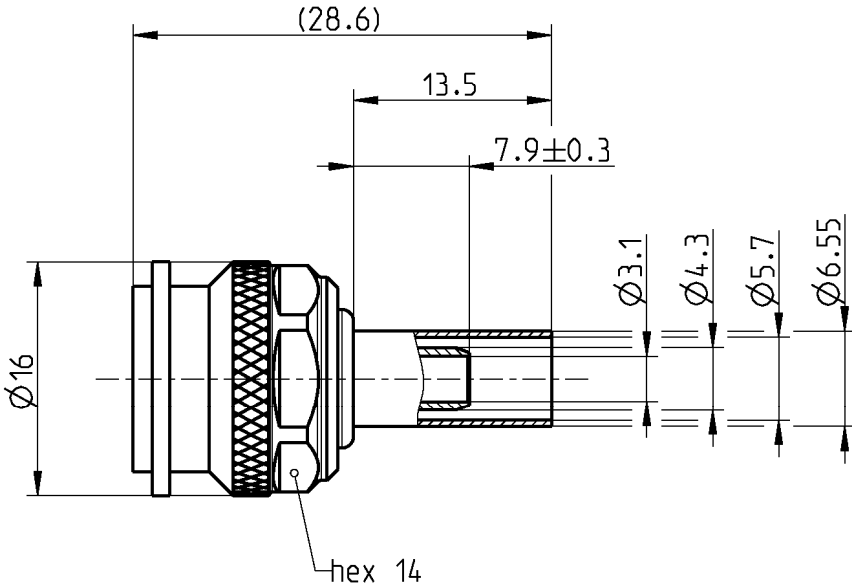


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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------|
| Technical Data Sheet                                                                                                                                                              |                 | Rosenberger                                                                  |
| TNC 50 Ω                                                                                                                                                                          | STRAIGHT PLUG   | 56S107-108N5                                                                 |
| <div></div> |                 |                                                                              |
| All dimensions are in mm; tolerances according to ISO 2768 m-H                                                                                                                    |                 |                                                                              |
| <b>Interface</b>                                                                                                                                                                  |                 |                                                                              |
| According to                                                                                                                                                                      |                 | IEC 60169-17, MIL-PRF-39012, DIN EN 122200                                   |
| <b>Documents</b>                                                                                                                                                                  |                 |                                                                              |
| Assembly instruction                                                                                                                                                              |                 | 51 P10                                                                       |
| <b>Material and plating</b>                                                                                                                                                       |                 |                                                                              |
| <b>Connector parts</b>                                                                                                                                                            |                 |                                                                              |
| Center contact                                                                                                                                                                    | Material        | Plating                                                                      |
| Outer contact                                                                                                                                                                     | Brass           | AuroDur®, gold plated                                                        |
| Body                                                                                                                                                                              | Brass           | Flash white bronze over silver(e.g. Optargen®)                               |
| Dielectric                                                                                                                                                                        | Brass           | Flash white bronze over silver(e.g. Optargen®)                               |
| Gasket                                                                                                                                                                            | PTFE            |                                                                              |
| Crimping ferrule                                                                                                                                                                  | NeopreneCR 50C6 |                                                                              |
|                                                                                                                                                                                   | Copper          | Flash white bronze over silver(e.g. Optargen®)                               |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br>www.rosenberger.de                                                                    |                 | Tel. : +49 8684 18-0<br>Fax : +49 8684 18-499<br>Email : info@rosenberger.de |
|                                                                                                                                                                                   |                 | Page<br>1 / 2                                                                |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|----------|------------------------------------------------------------------------------|---------------------------|-----------|---------------|
| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                   |          | Rosenberger                                                                  |                           |           |               |
| TNC 50 Ω                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | STRAIGHT PLUG     |          | 56S107-108N5                                                                 |                           |           |               |
| <div>Electrical data</div> <div>Impedance50 Ω</div> <div>FrequencyDC to 10 GHz</div> <div>Return loss≥ 30 dB, DC to 2.5 GHz</div> <div>≥ 20 dB, 2.5 to 4 GHz</div> <div>≥ 18 dB, 4 to 6 GHz</div> <div>Insertion loss≤ 0.05 dB, DC to 6 GHz</div> <div>Insulation resistance≥ 5 x10<sup>3</sup> MΩ</div> <div>Center contact resistance≤ 1.5 mΩ</div> <div>Outer contact resistance≤ 1 mΩ</div> <div>Test voltage1500 V rms</div> <div>Working voltage500 V rms</div> <div>Power handling (at 20 °C, sea level, VSWR 1.0) ≤ 80 W @ 2 GHz</div> <div>- Limitations are possible due to the used cable type -</div> <div>Mechanical data</div> <div>Mating cycles≥ 500</div> <div>Center contact captivation: axial ≥ 15 N</div> <div>Coupling test torque ≤ 1.7 Nm</div> <div>Recommended torque 0.46 Nm to 0.69 Nm</div> <div>Environmental data</div> <div>Temperature range-65 °C to +165 °C</div> <div>Thermal shockMIL-STD-202, Method 107, Condition B</div> <div>CorrosionMIL-STD-202, Method 101, Condition B</div> <div>VibrationMIL-STD-202, Method 204, Condition B</div> <div>ShockMIL-STD-202, Method 213, Condition G</div> <div>Moisture resistanceMIL-STD-202, Method 106</div> <div>RoHScompliant</div> <div>Tooling</div> <div>Crimping tool11W150-000</div> <div>Crimp insert11W150-208</div> <div>Suitable cables</div> <div>RG 142 B/U, RG 223 /U, RG 400 /U</div> <div>Weight</div> <div>Weight12.7 g/pce</div> |          |                   |          |                                                                              |                           |           |               |
| <div>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.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |                   |          |                                                                              |                           |           |               |
| Draft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date     | Approved          | Date     | Rev.                                                                         | Engineering change number | Name      | Date          |
| Inge Mühlauer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10.08.04 | Sa. Krautenbacher | 20.03.14 | f00                                                                          | 14-0352                   | T. Krojer | 20.03.14      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br>www.rosenberger.de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                   |          | Tel. : +49 8684 18-0<br>Fax : +49 8684 18-499<br>Email : info@rosenberger.de |                           |           | Page<br>2 / 2 |