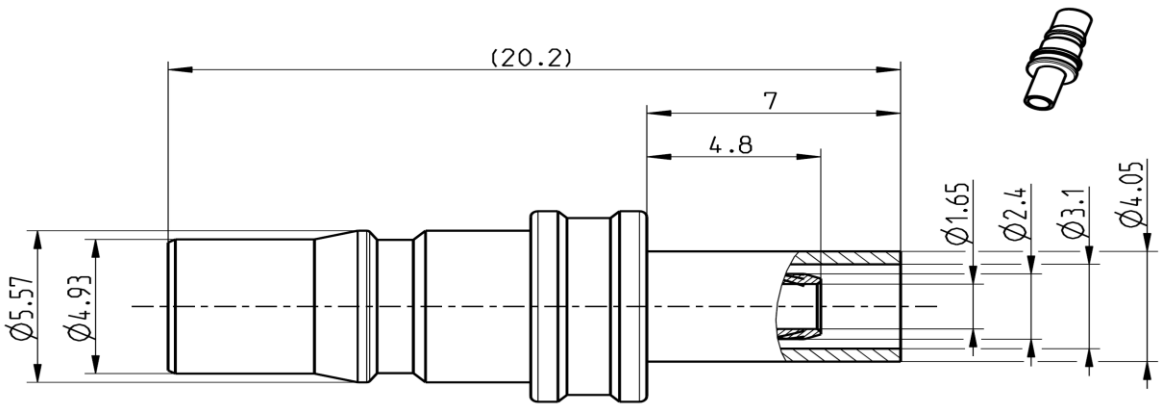
| Technical Data Sheet | | Rosenberger |
|---|---|---|
| QMA | STRAIGHT JACK | **28K101-102N5-NM** |




All dimensions are in mm; tolerances according to ISO 2768 m-H

## Interface

| | |
|---|---|
| According to | Rosenberger 28K000-000, series QMA<br>Rosenberger is an authorised QLF® manufacturer |

## Documents

| | |
|---|---|
| Assembly instruction | 28E |

## Material and plating

**Non-magnetic version**

| **Connector parts** | **Material** | **Plating** |
|---|---|---|
| Center contact | CuBe | AuroDur®, gold plated |
| Outer contact | Spring bronze | White bronze(e.g. Optalloy®) |
| Dielectric | PTFE | |
| Crimping ferrule | Spring bronze | Flash white bronze over silver(e.g. Optargen®) |





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## Electrical data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 28 dB, DC to 6 GHz |
| Insertion loss | ≤ 0.05 x $\sqrt{f(GHz)}$ dB, DC to 6 GHz |
| Insulation resistance | ≥ 5 x$10^3$ MΩ |
| Center contact resistance | ≤ 3 mΩ |
| Outer contact resistance | ≤ 2.5 mΩ |
| Test voltage, at sea level, 50Hz | 1200 V rms |
| Working voltage, at sea level, 50Hz | 600 V rms |
| RF-leakage | ≥ 95 dB up to 2 GHz<br>≥ 80 dB up to 4 GHz<br>≥ 70 dB up to 6 GHz |
| Intermodulation (3rd order) | ≤ -120 dBc @ 2 x 20 W |

*- Limitations are possible due to the used cable type –*

## Mechanical data

| | |
|---|---|
| Mating cycles | min. 100 |
| Center contact captivation: axial | ≥ 20 N |
| Engagement force | typ. 25 N |
| Disengagement force | typ. 20 N |
| Retention force for interface | 60 N min. |

## Environmental data

| | |
|---|---|
| Temperature range | -40°C to +85°C |
| Storage temperature | -40°C to +85°C |
| Thermal shock | IEC 60169-1 16.4 (-40 / +85°C) |
| Corrosion | IEC 60169-1 16.7 (48 hrs) |
| Vibration | IEC 60068-2-64 random |
| Damp heat, steady state | IEC 60169-1 16.3 (96 hrs) |
| 2002/95/EC (RoHS) | compliant |

## Tooling

| | |
|---|---|
| Crimp insert | 11W 150 402 |

## Suitable cables

RG 174

## Packing

| | |
|---|---|
| Standard | 100 pcs in bag |
| Weight | 2,33 g/pce |



| Draft | Date | Approved | Date |
|---|---|---|---|
| Michelmann Folke | 17.01.06 | C. Kainzmaier | 07.06.18 |

| Rev. | Engineering change number | Name | Date |
|---|---|---|---|
| B00 | 18-0940 | M. Margardt | 07.06.18 |

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