



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

**Interface**

|              |             |   |
|--------------|-------------|---|
| According to | NEX10 side: | NEX10®                                      |
|              | 7-16 side:  | IEC 60169-4, VG 95250, EN 122190, DIN 47223 |

**Material and Plating**

**Connector parts**

|                |             | <b>Material</b> | <b>Plating</b>               |
|----------------|-------------|-----------------|------------------------------|
| Center contact | NEX10 side: | CuBe            | Silver, 3-6 µm               |
| Center contact | 7-16 side:  | CuBe            | Silver, 3-6 µm               |
| Outer contact  | NEX10 side: | Brass           | White bronze(e.g. Optalloy®) |
| Outer contact  | 7-16 side:  | Brass           | White bronze(e.g. Optalloy®) |
| Body           |             | Brass           | White bronze(e.g. Optalloy®) |
| Dielectric     |             | PTFE            |                              |

7-16  
NEX10

Adaptor  
7-16 Jack – NEX10® Jack

**60K189-K00N1**

**Electrical Data**

Impedance 50 Ω  
 Frequency DC to 8.3 GHz  
 Return loss ≥ 30 dB @ DC to 4 GHz  
 Insertion loss ≤ 0.03 x √f [GHz] dB  
 Insulation resistance ≥ 5 GΩ  
 Center contact resistance ≤ 2.0 mΩ, NEX10 side ≤ 0.4 mΩ, 7-16 side  
 Outer contact resistance ≤ 1.0 mΩ, NEX10 side ≤ 1.5 mΩ, 7-16 side  
 Working voltage 500 V rms  
 RF-leakage ≥ 110 dB @ DC to 6 GHz for tool tightened plugs  
 ≥ 90 dB @ DC to 3 GHz for tool-less plugs  
 ≥ 70 dB @ 3 to 6 GHz for tool-less plugs  
 Power handling 100 W @ 2.0 GHz and 85°C ambient temperature  
 Intermodulation (3<sup>rd</sup> order) ≥ 166 dBc (2 x 43 dBm) @ 0.4 – 4.0 GHz

**Mechanical Data**

|                    |            |             |
|--------------------|------------|-------------|
|                    | NEX10 side | 7-16 side   |
| Mating cycles      | ≥ 100      | min. 500    |
| Recommended torque | 1.5 Nm     | 25 to 30 Nm |

**Environmental Data**

Temperature range -55 °C to +125 °C operating temperature  
 Thermal shock IEC 61169-1 9.4.4  
 Vibration IEC 61169-1 9.3.3 and IEC 60068-2-64  
 Shock IEC 61169-1 9.3.14  
 Degree of protection (mated pair) IEC 60529, IP68 24h / 1m  
 RoHS compliant

**Tooling**

N/A

**Suitable Cables**

N/A

**Weight**

67.5 g/pc

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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



|  |            |             |            |      |  |              |               |
|--|------------|-------------|------------|------|--|--------------|---------------|
| Draft  | Date       | Approved    | Date       | Rev. | Engineering change number  | Name         | Date          |
| F. Fraunhofer  | 03.04.2017 | Chr. Janßen | 01.02.2021 | b00  | 20-1927  | B. Wollitzer | 01.02.2021    |
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