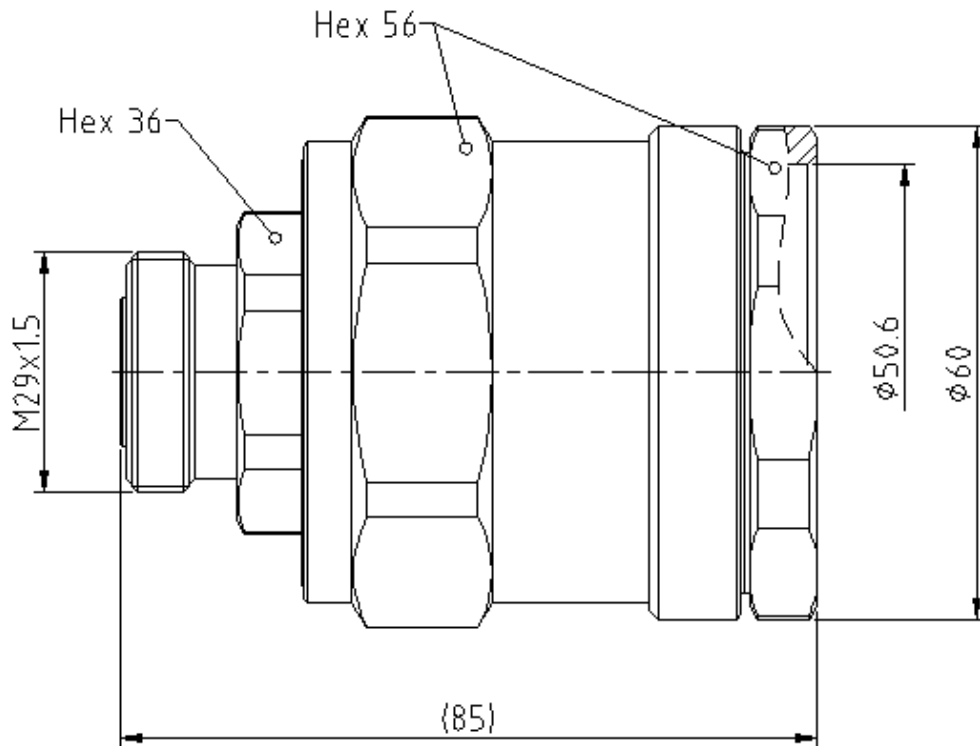


All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 61169-4, VG 95250, EN 122190, DIN 47223

Documents

Assembly instruction

MA_60144

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

Spring bronze
Brass
Brass
PTFE&TPX
Silicone

Plating

Silver, 3-6 µm
Flash white bronze over silver(e.g. Optargen®)
Nickel, 2.5-5 µm

Technical Data Sheet

Rosenberger
Rosenberger Site Solutions, LLC

7-16

STRAIGHT JACK
(1-5/8"R)

60K1D7-C07N1

Electrical data

Impedance	50 Ω
Frequency	DC to 2.7 GHz
Return loss	$\geq 35\text{dB}$ @ DC to 1 GHz $\geq 30\text{dB}$ @ 1 GHz to 2.7 GHz
Insertion loss	$\leq 0.05\text{dB}$
Insulation resistance	$\geq 10\text{ G}\Omega$
Center contact resistance	$\leq 0.4\text{ m}\Omega$
Outer contact resistance	$\leq 1.5\text{ m}\Omega$
Test voltage (at sea level)	4000 V rms
Working voltage (at sea level)	2700 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	1800 W @ 1 GHz 800 W @ 4 GHz
Intermodulation (3 rd order)	$\geq 158\text{ dBc}$ (2 x 43 dBm)

- Limitations are possible due to the used cable type

Mechanical data

Mating cycles	≥ 500
Center contact captivation: axial	$\geq 200\text{ N}$
radial	$\geq 2\text{ Ncm}$
Coupling torque (recommended)	25 to 30 Nm
Proof torque	$\leq 35\text{ Nm}$

Environmental data

Temperature range	-45 °C to +85 °C
Rapid change of temperature	DIN EN 122190, Sub-clause 4.6.7
Corrosion resistance	DIN EN 122190, Sub-clause 4.6.10
Vibration	DIN EN 122190, Sub-clause 4.6.3
Climatic category	DIN EN 122190, Sub-clause 4.6.5 (45/85/21)
Damp heat	DIN EN 122190, Sub-clause 4.6.6
Degree of protection (mated pair)	IEC 60529, IP68
2002/95/EC (RoHS)	compliant

Tooling

Crimping tool	60W110-C07
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Suitable cables

SL 158R Series (recommended)

Packing

Standard	1 pce in bag
Weight	492.1g/pce

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
zhuguangchao	01/03/11	Roger	07/04/11	1.0	11-m001	zhuguangchao	01/03/11

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