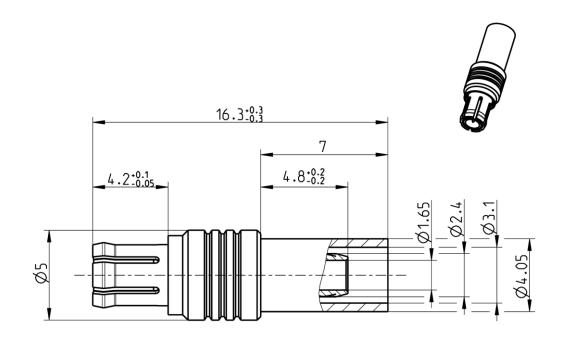
Technical Data Sheet		Rosenberger		
MCX	Straight Plug	29S111-102L5		



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

Interface	
According to	CECC 22220, IEC 61169-36

Documents		
Assembly instruction		29 A

Material and plating				
Connector parts	Material	Plating		
Center contact	Brass	AuroDur®, gold plated		
Outer contact	CuBe	AuroDur®, gold plated		
Dielectric	PTFE			
Crimping sleeve	Copper	Gold 0.1 um min		

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Technical Data Sheet Rosenberger

MCX

Straight Plug

29S111-102L5

Electrical data

Impedance 50Ω

Frequency DC to 6 GHz

Return loss \geq 25 dB, DC to 1 GHz

 ≥ 20 dB, 1 to 4 GHz

Insertion loss $\leq 0.05 \text{ x} \sqrt{f(GHz)} dB$, DC to 4 GHz

 $\begin{array}{lll} \mbox{Insulation resistance} & \geq 1 \ \mbox{G}\Omega \\ \mbox{Center contact resistance} & \leq 5.0 \ \mbox{m}\Omega \\ \mbox{Outer contact resistance} & \leq 2.5 \ \mbox{m}\Omega \\ \mbox{Test voltage} & 750 \ \mbox{V rms} \\ \mbox{Working voltage} & 335 \ \mbox{V rms} \\ \mbox{Contact Current} & 1.5 \ \mbox{DC max}. \end{array}$

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles ≥ 500 Center contact captivation $\geq 10 \text{ N}$ Engagement force $\leq 25 \text{ N}$

Disengagement force 8 N min. to 20 N max.

Environmental data

Temperature range -55°C to +155°C

Thermal shock CECC 22 220, Chapter 4.6.7 Vibration CECC 22 220, Chapter 4.6.3 Corrosion CECC 22 220, Chapter 4.6.10 Moisture resistance CECC 22 220, Chapter 4.6.6

RoHS compliant

Tooling

Crimping tool 11W150-000 Crimp insert 11W150-402

Suitable cables

RG 316 /U, RG 174 A/U, RG 188 A/U

Weight

Weight 0.8 g/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.

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



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
König A.	27.09.06	Chr. Janßen	04.11.20	c00	20-1927	S. Huber-Siegl	04.11.20

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