

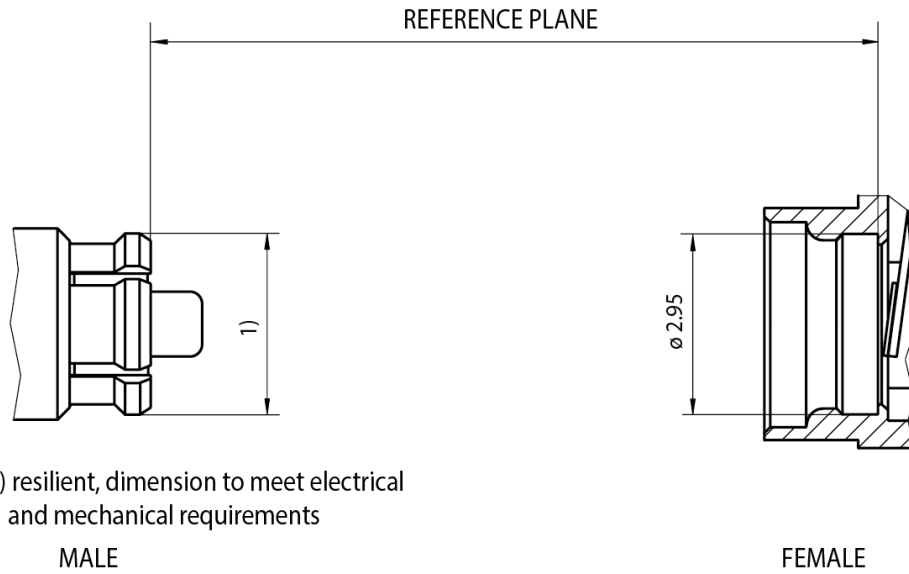
Technical Data

Rosenberger

16

FMC

16-000-000_TD



1) resilient, dimension to meet electrical and mechanical requirements

MALE

FEMALE

Interface

According to

Rosenberger FMC

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RFB00035

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	04.02.2019	Chr. Janßen	04.02.2019	a00	19-s083	J_Krautenbac	12.03.2019
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O. Box 1260 D-84526 Tittmoning Germany www.rosenberger.com					Tel. : +49 8684 18-0 Email : info@rosenberger.com		Page 1 / 2

Technical Data**Rosenberger**

16

FMC

16-000-000_TD

Electrical data

Impedance	50 Ω
Frequency range	DC to 10 GHz
Return loss (cable connector straight)	≥ 23 dB (typ.)
Insertion loss	≤ 0.1 x √f [GHz] dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	500 V rms
Working voltage	335 V rms
Power handling	50 W @ 2.2 GHz
Contact Current	≤ 1.2 A DC
RF-leakage - Interface	≥ 80 dB @ DC to 3 GHz ≥ 65 dB @ 3 GHz to 10 GHz

Mechanical data

Mating cycles	≥ 100
Engagement force	Full detent: ≤ 68 N Limited detent: ≤ 45 N Smooth bore: ≤ 9 N
Disengagement force	Full detent: ≥ 22 N Limited detent: ≥ 9 N Smooth bore: ≥ 2.2 N
Axial misalignment	± 0.3 mm
Radial misalignment	4°
Board-to-board distance (min.)	6.05 mm (solder paste thickness not included)

Environmental data

Temperature range	-40 °C to +105 °C
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4 (-40 °C to +105 °C)
Damp heat	IEC 60169-1, Sub-clause 16.3 (+40 °C, 56d)
Mixed flowing gas	DIN EN 60068-2-60, Method 4 (10d)
Vibration	IEC 61169-1, Sub-clause 9.3.3 (10-2000 Hz, 15g)
Shock	IEC 60169-1, Sub-clause 15.8 (50g, 11 ms, half-sine)
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

Material**Connector parts**

	Material	Plating
Spring loaded contact parts	CuBe	Au
Center contact	CuZn / CuBe	Au
Outer contact	CuZn / CuBe	Au
Dielectric	PTFE / LCP	

While the information (including technical data) has been carefully compiled to the best of our knowledge at the time of publication, the information is provided "AS IS" without warranties of any kind either express or implied. Apart from this, no statement herein shall be construed as recommendation to infringe existing patents. Individual values may deviate depending upon circumstances including but not limited to application, design, type of cable, assembly and workmanship. Furthermore, we reserve the right to change the design and technical specification of our products when deemed necessary.

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
Chr. Janßen	04.02.2019	Chr. Janßen	04.02.2019	a00	19-s083	J_Krautenbac	12.03.2019
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O. Box 1260 D-84526 Tittmoning Germany www.rosenberger.com					Tel. : +49 8684 18-0 Email : info@rosenberger.com		Page 2 / 2