

Telegärtner 7-16 Straight Jack G23 (1/2" Flex) SIMFix

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Description

The Telegärtner 7-16 Straight Jack G23 (1/2" Flex) SIMFix is a high-performance coaxial RF connector designed for demanding telecommunications and data communication applications. It features a 7/16 DIN Female connector with a straight body, suitable for free-hanging mounting. This connector is engineered to attach seamlessly to 1/2" corrugated cable types using a captivated attachment mechanism, ensuring secure and reliable connections.

Constructed from brass with copper alloy inner contacts, this connector boasts excellent conductivity and durability. Its PTFE/Teflon insulator ensures high resistance to temperature fluctuations, making it suitable for environments ranging from -40 °C to 85 °C. The connector can handle a peak power of 2 kW and maintains an input impedance of 50 Ω, making it ideal for high-frequency applications up to 3 GHz.

The Telegärtner 7-16 Straight Jack G23 is designed for robustness, withstanding over 500 mating...

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RF Connector Interface

RF Interface	Body Shape	Mounting
7/16 DIN Female	Straight	Free Hanging

RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	3 GHz	Inner Contact Resistance:	$\leq 0.4 \text{ m}\Omega$
Peak Power:	1.8 kW	Insulation Resistance:	$\geq 10000 \text{ m}\Omega$
PIM, 3rd Order:	$\leq -155 \text{ dBc}$	Outer Contact Resistance:	$\leq 0.2 \text{ m}\Omega$
RF Operating Voltage:			$\leq 2700 \text{ Vrms}$

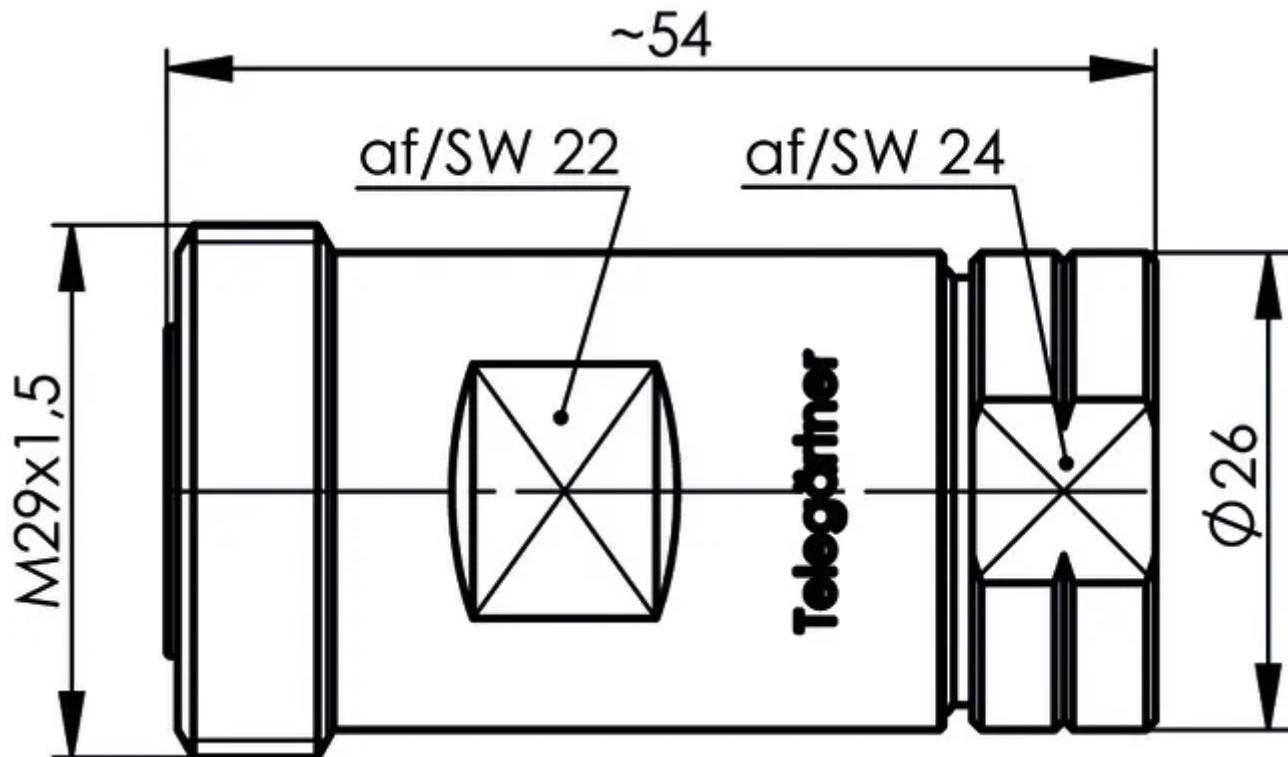
VSWR Measurement

Frequency	Return Loss	Insertion Loss
1000 MHz	$\leq 40 \text{ dB}$	0.03 dB
2000 MHz	$\leq 36 \text{ dB}$	0.08 dB
3000 MHz	$\leq 34 \text{ dB}$	0.18 dB

Physical Specification

Cable Group:	1/2 Corrugated	Conductor Attachment:	Cable, Captivated
Body Material:	Brass	Contact Material:	Copper Alloy
Insulator Material:	PTFE / Teflon	Contact Plating:	Copper-Silver Alloy (Cu2Ag5 / Cu2Ag3)
Dimensions:	55 x 26	Min. Operating Temperature:	-40 °C
Weight:	160 g	Max. Operating Temperature:	85 °C
Compliance/Certifications:	RoHS	Ingress Protection:	IP68
Mechanical Compliance:	IEC 60529: IP Code	Mating Cycles:	> 500

Drawing



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