

# 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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## Telegärtner



As family-owned company the Telegärtner Group has developed to an international network of affiliated companies specialising in intermediate and end products for telecommunications and data communications for customers with the most exacting demands for high-tech applications over the last 70 years.

Since the company was set up in 1945 Telegärtner has seen steady growth and has continually expanded ...

# RF Connector Interface

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

## RF Specification

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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:			$\leq 2700 \text{ Vrms}$

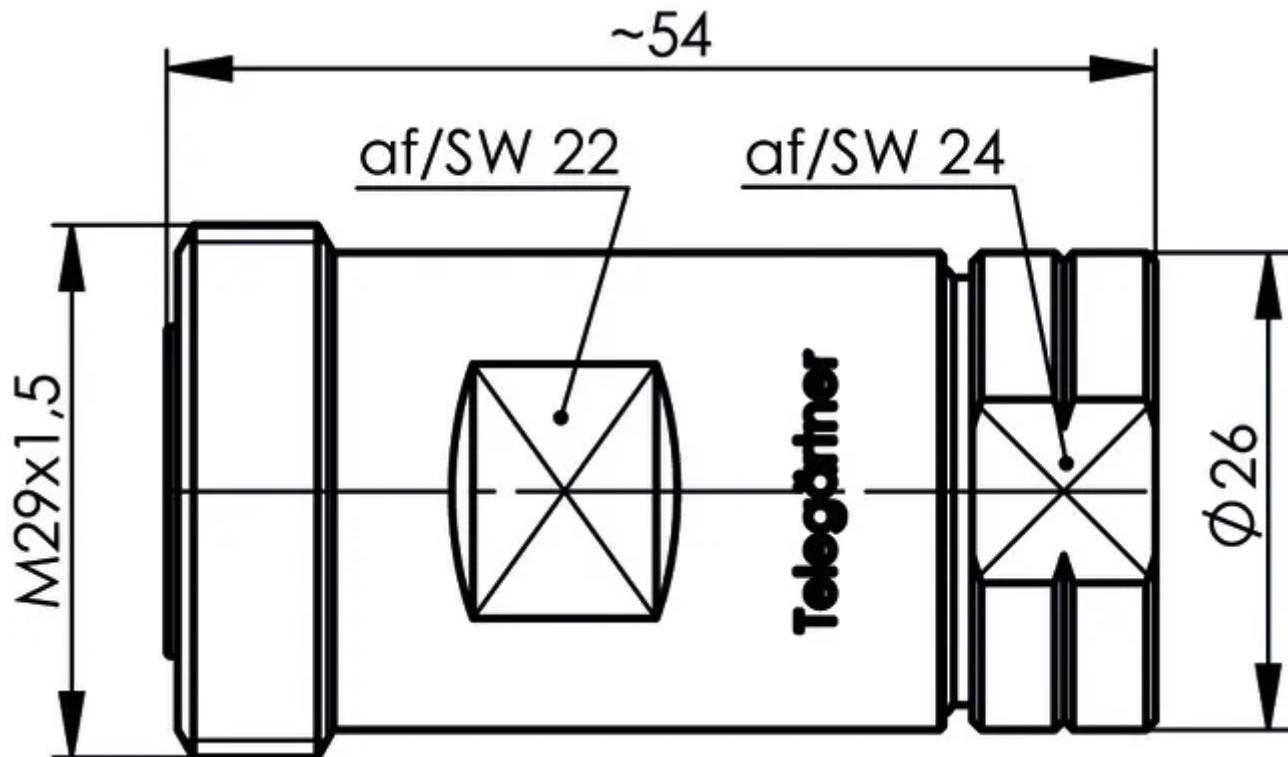
## VSWR Measurement

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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