

Powertec Wireless Technology ABN: 42 082 948 463 PO Box 1034, Ashmore City Queensland, Australia, 4214 sales@powertec.com.au 1300 769 378

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

SKU: ACC-TG-00029 MPN: 100024482

## 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  $\Omega$ , 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...

Read More





#### 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

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

# RF Specification

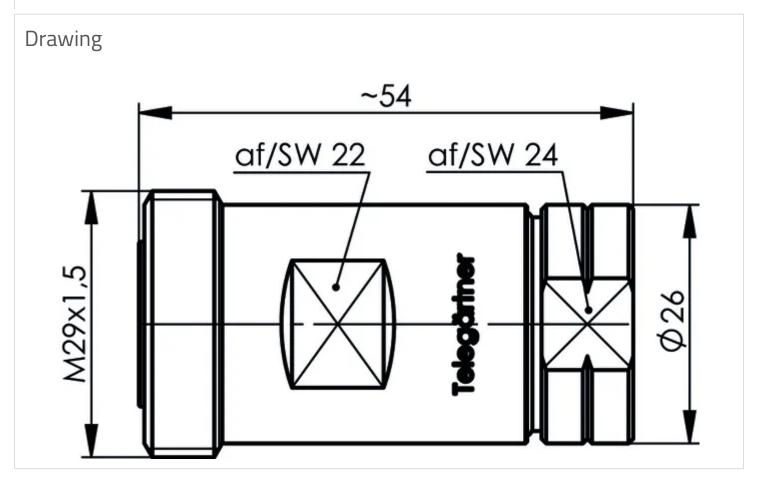
Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	3 GHz	Inner Contact Resistance:	≤ 0.4 mΩ
Peak Power:	1.8 kW	Insulation Resistance:	≥ 10000 mΩ
PIM, 3rd Order:	≤ -155 dBc	Outer Contact Resistance:	≤ 0.2 mΩ
		RF Operating Voltage:	≤ 2700 Vrms

### **VSWR** Measurement

Frequency	Return Loss	Insertion Loss
1000 MHz	≤ 40 dB	0.03 dB
2000 MHz	≤ 36 dB	0.08 dB
3000 MHz	≤ 34 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		CuzAg5)
Weight:	160 g	Min. Operating Temperature:	-40 °C
Compliance /Contifications		Max. Operating Temperature:	85 °C
Compliance/Certifications:	RoHS	Ingress Protection:	IP68
Mechanical Compliance:	IEC 60529: IP Code	Making Cualso	. 500
		Mating Cycles:	> 500



Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

