

Telegärtner 7-16 Angle Plug G23 (1/2" Flex) SIMFix Pro IP 68

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Description

The Telegärtner 7-16 Angle Plug G23 is a high-performance coaxial RF connector designed for robust telecommunications and data communication applications. This 7/16 DIN male connector features a right-angle body and is ideally suited for connecting 1/2" corrugated cables. Its durable construction, with a brass body and copper-silver alloy plating, ensures excellent conductivity and reliability. The connector is engineered to endure over 500 mating cycles, making it suitable for repeated connections in demanding environments.

With an operational frequency range extending from 0 to 3 GHz, this connector supports a wide array of RF applications, including cellular networks and broadcast systems. It maintains a low voltage standing wave ratio (VSWR) across its frequency range, ensuring minimal signal reflection and power loss. The Telegärtner 7-16 Angle Plug G23 also boasts a high power handling capability of up to 2 kW and an RF operating...

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RF Connector Interface

RF Interface	Body Shape	Mounting
7/16 DIN Male	Right Angle	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:			$\leq 2700 \text{ Vrms}$

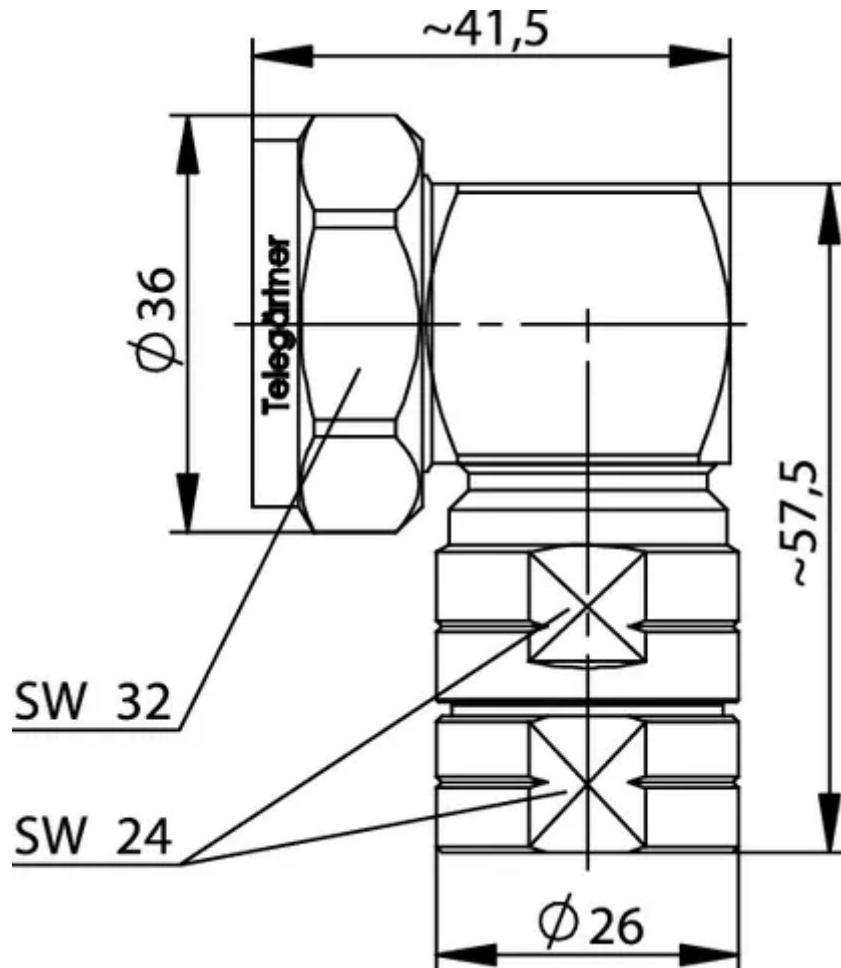
VSWR Measurement

Frequency	VSWR	Return Loss	Insertion Loss
1000 MHz	$\leq 1.1:1$	$\leq 38 \text{ dB}$	0.05 dB
2000 MHz	$\leq 1.2:1$	$\leq 34 \text{ dB}$	0.05 dB
2700 MHz	$\leq 1.3:1$	$\leq 30 \text{ dB}$	0.1 dB

Physical Specification

Cable Group:	1/2 Corrugated	Conductor Attachment:	Cable, Captivated
Body Material:	Brass	Contact Material:	Brass
Body Plating:	CuSnZn3	Contact Plating:	Copper-Silver Alloy (Cu2Ag5 / Cu2Ag3)
Insulator Material:	PTFE / Teflon	Min. Operating Temperature:	-40 °C
Dimensions:	41.5 x 36 x 57.5	Max. Operating Temperature:	85 °C
Weight:	240 g	Ingress Protection:	IP68
Compliance/Certifications:	RoHS	Mating Cycles:	> 500

Drawing



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