

# Telegärtner 4.3-10 straight jack, clamp/clamp, G21 (1/2"), SIMFix Pro

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## Description

The Telegärtner 4.3-10 straight jack, known for its robust design and reliable performance, is a high-quality coaxial RF connector used in telecommunications and data communications. This connector is ideal for applications requiring low passive intermodulation (PIM) levels, making it suitable for high-frequency signal transmission in mobile network infrastructure. It supports a frequency range from 0 to 6 GHz, ensuring optimal signal integrity across various communication systems.

Designed for use with 1/2" corrugated cable types, this connector employs a cable-clamp attachment mechanism that ensures a secure and stable connection. Its brass construction with CuSnZn3 plating and inner copper alloy contacts with copper-silver alloy plating contribute to efficient electrical conductivity and durability. The connector is engineered to withstand over 100 mating cycles, ensuring long-term performance stability.

With an insulation resistance...

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RF Connector Interface



| RF Interface  | Body Shape | Mounting     |
|---------------|------------|--------------|
| 4.3-10 Female | Straight   | Free Hanging |

## RF Specification 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 ...

|                  |            |                           |             |
|------------------|------------|---------------------------|-------------|
| Start Frequency: | 0 GHz      | Input Impedance:          | 50          |
| Stop Frequency:  | 6 GHz      | Inner Contact Resistance: | ≤ 1 mΩ      |
| PIM, 3rd Order:  | ≤ -155 dBc | Insulation Resistance:    | ≥ 5000 mΩ   |
|                  |            | Outer Contact Resistance: | ≤ 0.5 mΩ    |
|                  |            | RF Operating Voltage:     | ≤ 2500 Vrms |

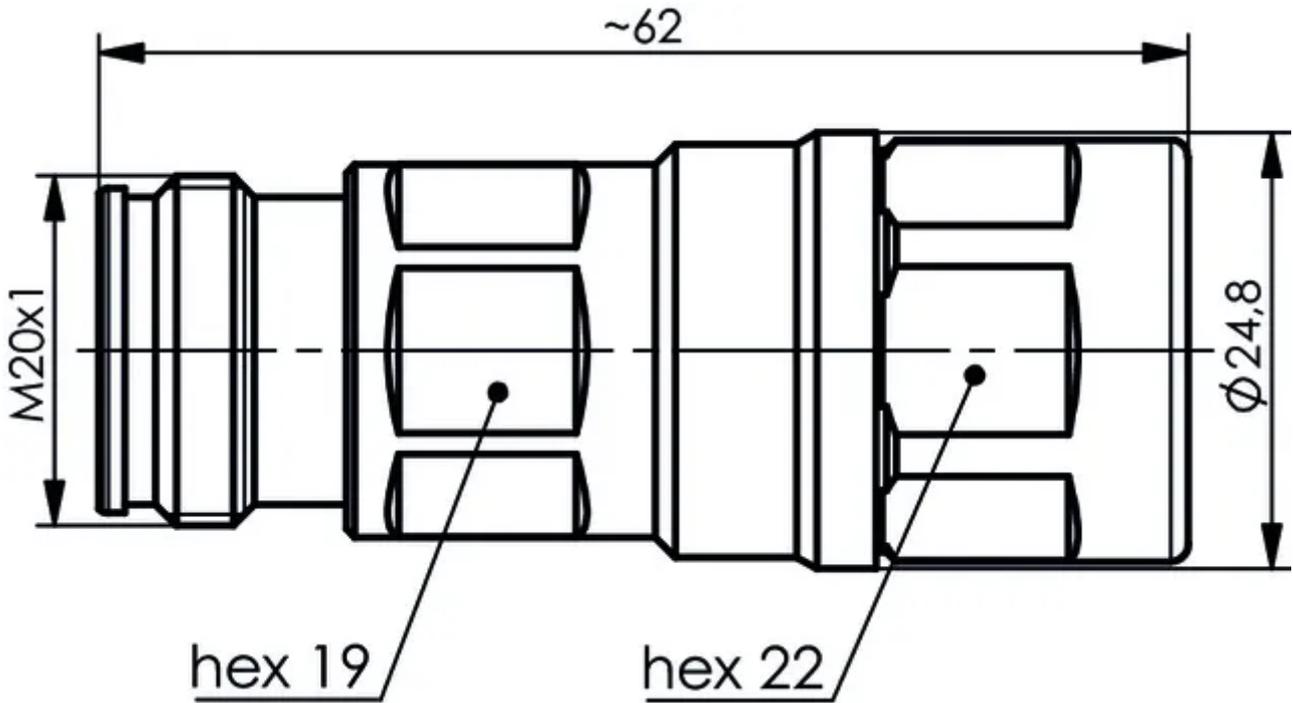
#### VSWR Measurement

| Frequency | Return Loss | Insertion Loss |
|-----------|-------------|----------------|
| 2000 MHz  | ≤ 36 dB     | 0.1 dB         |
| 4000 MHz  | ≤ 32 dB     | 0.1 dB         |
| 8000 MHz  | ≤ 28 dB     | 0.1 dB         |

## Physical Specification

|                            |                |                             |                                       |
|----------------------------|----------------|-----------------------------|---------------------------------------|
| Cable Group:               | 1/2 Corrugated | Conductor Attachment:       | Cable, Captivated                     |
| Body Material:             | Brass          | Contact Material:           | Copper Alloy                          |
| Body Plating:              | CuSnZn3        | Contact Plating:            | Copper-Silver Alloy (Cu2Ag5 / Cu2Ag3) |
| Insulator Material:        | Topas COC      | Min. Operating Temperature: | -40 °C                                |
| Dimensions:                | 62 x 24.8      | Max. Operating Temperature: | 85 °C                                 |
| Compliance/Certifications: | RoHS           | Ingress Protection:         | IP68                                  |
|                            |                | Mating Cycles:              | > 100                                 |

Drawing



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