



NEX10®

COMPACT. FLEXIBLE. LOW-PIM.

RF Connectors and Jumper Cables
for Mobile Communications: NEX10®.

CONNECTORS FOR SMALL CELL APPLICATIONS

The NEX10® Series

Ever-increasing amounts of data have made further developments of global mobile networks essential. Above all, the development of 5G – the next generation of mobile communications – is creating new and more diverse tasks for the mobile communications industry.

The new NEX10® connector system* was developed to meet the existing and future demands of these upcoming small cell mobile networks. The NEX10® interface offers excellent PIM performance in a robust design and compact size.

*Produced under license

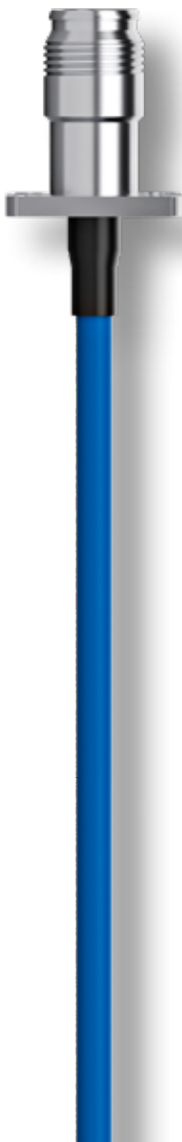
Electrical Parameters

| | |
|---------------------------------|---|
| Frequency Range | DC to 20 GHz |
| PIM (Passive Intermodulation) | ≥ 166 dBc @ 2 × 43 dBm |
| Return loss (typ.) | ≥ 36 dB @ DC to 4 GHz ≥ 34 dB @ 4 GHz – 6 GHz ≥ 30 dB @ 6 GHz – 10 GHz ≥ 20 dB @ 10 GHz – 20 GHz |
| Power handling | 100 W (@ 2 GHz, 85 °C) |
| Mating cycles | ≥ 100 |
| Impedance | 50 Ohm |
| Recommended torque / screw type | 1.5 Nm |
| Degree of protection | IP68 (1 m, 24 hours) |

The NEX10® interface is perfect for applications, such as small cells, distributed antenna systems (DAS) and MIMO antennas. With the optional push-pull and screw type locking mechanisms, this connector series is suitable for indoor and outdoor applications.



Universal Jack



Screw



Push-Pull



DIMENSIONS AND CABLE TYPES

Cable Types

Jack NEX10®



Plug NEX10®



Optimized for: Semiflex Cables



UT-85



UT-141



UT-250

Superflexible Corrugated Cables



1/4"



3/8"

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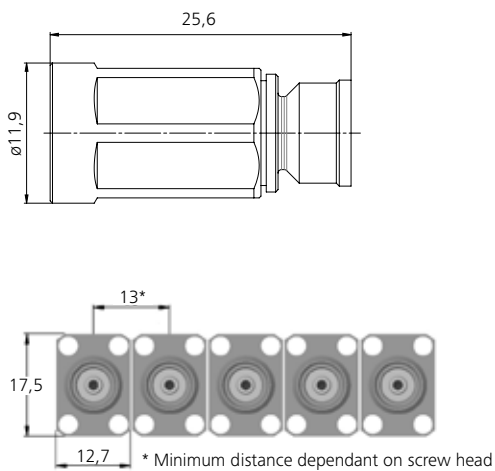
Compact RF Connector Series for Mobile Radios

- 5G ready
- Small Form Factor
- -166 dBc dynamic PIM stability
- Plug optimized for 1/4" and 3/8" Cables
- Frequency up to 20 GHz

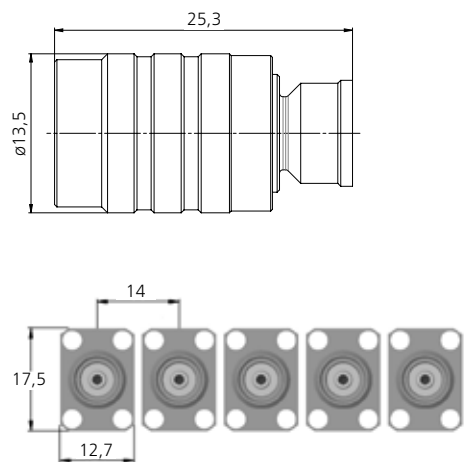


Mechanical Dimensions

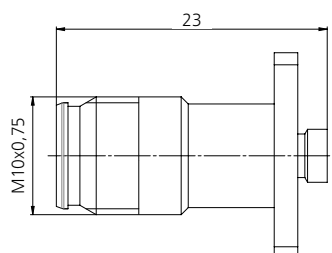
Screw Type Plug



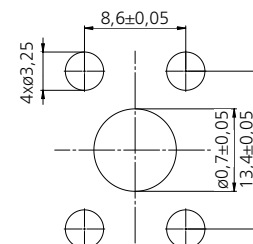
Push-Pull Type Plug



Universal Jack



Mounting Dimensions



Order Information

| NEX10® Straight Plug | Order no. | Cable group | Type | Remark/ Mounting dim. |
|---|-----------|--------------|----------------|--------------------------|
|  | 100025575 | G11 (UT-85) | Screw | |
| | 100025580 | G11 (UT-85) | Push-Pull | |
| | 100025576 | G10 (UT-141) | Screw | |
| | 100025581 | G10 (UT-141) | Push-Pull | |
| NEX10® Angle Plug | | | | |
|  | 100025579 | G10 (UT-141) | Screw | |
| | 100025584 | G10 (UT-141) | Push-Pull | |
| NEX10® Straight Jack | | | | |
|  | 100025585 | G11 (UT-85) | | |
| | 100025586 | G10 (UT-141) | | |
| NEX10® Panel Jack | | | | |
|  | 100025587 | G11 (UT-85) | 12.7 x 17.5 mm | Z178 |
| | 100025588 | G10 (UT-141) | 12.7 x 17.5 mm | Z178 |
|  | 100032937 | G11 (UT-85) | 20 x 20 mm | Z179 |
| | 100032936 | G10 (UT-141) | 20 x 20 mm | Z179 |
| NEX10® Bulkhead Jack | | | | |
|  | 100025589 | G11 (UT-85) | | Z04 |
| | 100025590 | G10 (UT-141) | | Z04 |

Order Information

| Adapter 4.3-10 to NEX10® | Order no. | Description | Type | Remark/ Mounting dim. |
|---|-----------|-------------|---------------|--------------------------|
|  | 100025343 | f-m | Screw | |
|  | 100025344 | f-f | | |
|  | 100025345 | m-f | Screw | |
|  | 100025346 | m-m | Screw - Screw | |
| Adapter NEX10® to 3.5 | | | | |
|  | 100025606 | m-f | Screw | |
|  | 100025607 | f-f | | |
|  | 100025608 | f-m | | |
|  | 100025609 | m-m | Screw | |
| NEX10® Adapter | | | | |
|  | 100025591 | f-f | | |
|  | 100025592 | f-f | Bulkhead | Z180 |
|  | 100025593 | m-m | Screw - Screw | |
|  | 100025594 | m-f | Screw | |

NEX10[®]

JUMPER CABLES



Besides high-quality connectors for cables and devices, Telegärtner also offers factory-made jumper cables with the new NEX10[®] connector series*, following the highest quality standards.

Adding NEX10[®] jumpers to the portfolio makes Telegärtner the perfect partner for components in a wide range of mobile communications applications due to a full portfolio of all common mobile communication connectors. Telegärtner's convincing service enables customer-specific solutions as well as fast delivery times – even for small batch sizes.

*Produced under license

Order Information

| Superflexible 1/4" Jumper Cables | Order no. | Plug left side | Plug right side | Length |
|---|-----------|-------------------|-------------------|--------|
|  | 100025771 | NEX10® male Screw | NEX10® male Screw | 1.0 m |
| | 100025774 | NEX10® male Screw | NEX10® male Screw | 2.0 m |
| | 100025777 | NEX10® male Screw | NEX10® male Screw | 3.0 m |
|  | 100025772 | NEX10® male Screw | 4.3-10 male Screw | 1.0 m |
| | 100025775 | NEX10® male Screw | 4.3-10 male Screw | 2.0 m |
| | 100025778 | NEX10® male Screw | 4.3-10 male Screw | 3.0 m |
|  | 100025773 | NEX10® male Screw | N male | 1.0 m |
| | 100025776 | NEX10® male Screw | N male | 2.0 m |
| | 100025779 | NEX10® male Screw | N male | 3.0 m |
| Superflexible 3/8" Jumper Cables | | | | |
|  | 100025780 | NEX10® male Screw | NEX10® male Screw | 3.0 m |
| | 100025783 | NEX10® male Screw | NEX10® male Screw | 4.0 m |
| | 100025786 | NEX10® male Screw | NEX10® male Screw | 5.0 m |
|  | 100025781 | NEX10® male Screw | 4.3-10 male Screw | 3.0 m |
| | 100025784 | NEX10® male Screw | 4.3-10 male Screw | 4.0 m |
| | 100025787 | NEX10® male Screw | 4.3-10 male Screw | 5.0 m |
|  | 100025782 | NEX10® male Screw | N male | 3.0 m |
| | 100025785 | NEX10® male Screw | N male | 4.0 m |
| | 100025788 | NEX10® male Screw | N male | 5.0 m |

Telegärtner
Karl Gärtner GmbH

Lerchenstr. 35
D-71144 Steinenbronn

Tel. +49 71 57/1 25-0
Fax +49 71 57/1 25-5120

info@telegaertner.com
www.telegaertner.com

Your distributor: