In addition to the wide range of coaxial connectors, Telegärtner offers suitable coaxial cables with a characteristic impedance of either 50 or 75 Ohm. This makes it easy to select the right transmission media for coaxial cables. Coaxial cables are available in several standard designs, ensuring that the right material is used for the right application. Coaxial cables are made primarily from rated RG cables, high-quality PTFE cables, Low Loss cables as well as Semi Flex cables.

More Customised: assembling RF cables online

Do you need an assembly RF cable with coaxial connectors matching your exact requirements? Then you have come to the right place. Tele-Gärtner is your partner when it comes to simple, quick and easy assembly. You can find all the COAX products in the overview in our Online Catalogue.

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Simple RG Cables

- Single or double braid as inner conductor
- Jacket made of PTFE or other compound material
- Available in 50 Ohm and 75 Ohm
- For many various applications

Low Loss Cables

- Single or double braid as inner conductor
- High-quality jacket made of PTFE or other compound material
- Available in 50 Ohm and 75 Ohm
- For many various applications
- High-temperature resistant

Coaxial Cables

- Urban-friendly input mask ...
- ... and creation of a clear specification (PDF)
- User-friendly input mask ...
- ... and creation of a clear specification (PDF)

Coaxial Cables

Coaxial Cables in Bulk Rings or on Cable Drums

- X-bend 58 PUR
- RG-58 Types
- Low Loss 400 Rail FR LS ZH
- Low Loss HD

Portfolio Highlights

Coaxial Cables

Coaxial Cables

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- Low Loss 400 Rail FR LS ZH
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More Customised: assembling RF cables online

Do you need to assemble RF cables with coaxial connectors meeting your own special specifications but are too busy to order according to your requirements? Then the CoAX configurator will help you do this. 

... simple, easily available to try around the clock... 

... fast, and allows you to configure your customized assembly with just a few clicks. Thanks to its logical and easy-to-understand user guidance, you will quickly find out how your wanted and required cable assemblies are put together. 

... your individuality, and when you finally try it out, information is provided so that you can configure your own individual cable assembly.

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Coaxial Cables

Simple RG Cables
- well-known standard worldwide
- single or double braid as outer conductor
- jacket made of PTFE or FEP
- resistant to oil, UV radiation and chemicals
- available in 50 Ohm and 75 Ohm
- for many various applications
- high-temperature resistant

Low Loss Cables
- foil and single braid as outer conductor in combination with foamed dielectric for lowest signal loss
- jacket made of PTFE, for other compound material
- available in 50 Ohm and 75 Ohm
- for applications in harsh environments
- high-temperature resistant

Semi Flex Cables
- very dense outer conductor braid that has been treated to be highly screening effective. Available with or without PTFE jacket ( PDT/ PHD application pending)
- halogen free, keeps the shape after bending
- available in 50 Ohm
- can be installed in highly electrically radiation sensitive environments or even in environments that require electro magnetic interference containment
- for frequencies up to 18 GHz
### General Design of Coaxial Cables

<table>
<thead>
<tr>
<th>Type</th>
<th>Inner Conductor</th>
<th>Dielectric</th>
<th>Outer Conductor</th>
<th>Cable Jacket</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-213 LS ZH L01002C0000</td>
<td>2,25 stranded Cu</td>
<td>PE foam</td>
<td>2,25 stranded CuS</td>
<td>LSZH black</td>
</tr>
<tr>
<td>RG-179 L01000C0000</td>
<td>0,48 stranded CW</td>
<td>PTFE</td>
<td>1,5 PE single Cu</td>
<td>FEP brown-transparent</td>
</tr>
<tr>
<td>RG-58 PVC L01000B0004</td>
<td>0,9 stranded CuZ</td>
<td>PE single CuZ</td>
<td>4,95 PVC black</td>
<td>-</td>
</tr>
<tr>
<td>RG-59 L01001B0001</td>
<td>0,6 solid CW</td>
<td>PE single Cu</td>
<td>6,15 PVC black</td>
<td>-</td>
</tr>
<tr>
<td>RG-174 UL L01000C0009</td>
<td>0,48 stranded CW</td>
<td>PE single Cu</td>
<td>2,65 PVC black</td>
<td>-</td>
</tr>
<tr>
<td>RG-58 FRNC L01020B0025</td>
<td>0,93 stranded CuZ</td>
<td>PE single CuZ</td>
<td>4,9 FRNC black</td>
<td>-</td>
</tr>
<tr>
<td>RG-58 PE L01000B0004</td>
<td>0,9 stranded CuZ</td>
<td>PE single CuZ</td>
<td>4,95 PE black</td>
<td>-</td>
</tr>
<tr>
<td>RG-223 L01001C0003</td>
<td>0,9 solid CuS</td>
<td>PE double CuS</td>
<td>5,4 PVC black</td>
<td>-</td>
</tr>
</tbody>
</table>

### Criteria for Selecting Suitable Coaxial Cables

A survey of technical characteristics is shown in the product table of this brochure. Using this table will help you pick easily and quickly the right cable for your application. The most important characteristics are briefly described below.

- **Impedance 50 Ohm or 75 Ohm**
  - Almost every system works with 50 Ohm technology. For broadcast and video applications, 75 Ohm systems are used.

- **Insertion Loss (Attenuation)**
  - Insertion loss describes the loss of power along an electrical line (ratio of input to output power). Insertion loss is a parameter which is used to assess the non-reflecting behaviour of cables of the same type. The signal attenuation is significantly lower, especially when using higher frequencies.

- **Screening Effectiveness**
  - Screening effectiveness describes how well a cable prevents electrical energy escaping from or entering into a transmission line. Improving this value is achieved by applying multiple braids, foil underbraid (see Coating) or the material (FEP Jacket) in the outer conductor.

- **Temperature Range**
  - Improving the material used, cables can be applied in different ambient temperature ranges. Cables with the symbol can be used in extreme low temperatures. Cables with FEP (Jacket) can be applied from -30°C. For RG-58 Cables, RGF-58 and RG-59, the temperature limits are given in the table.
approx. 200°C. PTFE or FEP jackets are furthermore resistant to oil, UV radiation or chemicals. Depending on the materials used, cables may be applied in different ambient temperature ranges. Braid (Low Loss Cables) or tin-soaked braids (Semi Flex Cables) as the outer conductor. Entering into a transmission line. Improving this value is achieved by applying double braids, foil under screening effectiveness describes how well a cable prevents electrical energy escaping from or significantly lower, especially when using higher frequencies. Insertion loss describes the total electrical loss along an electrical line (ratio of input to output power). Insertion loss (Attenuation) systems are used. General Design of Coaxial Cables

### Technical Changes Reserved.

Criteria for Selecting Suitable Coaxial Cables

A variety of technical characteristics is shown in the product table of this brochure. Using this table will help you easily and quickly find the right cable for your application. The most important characteristics are briefly described here:

- **Impedance 50 Ohm or 75 Ohm**
  - Almost every system needs to fulfill impedances for transmission and video applications. 75 Ohm systems are used.

- **Insertion Loss (Attenuation)**
  - Insertion loss describes the total electrical loss along an electrical line (ratio of input to output power). Insertion loss (Attenuation) systems are used. Low Loss Cables for maximum are characterized to a particular degree. Bar, low values of insertion loss (Attenuation) describe cables of the same type. The signal attenuation is significantly lower, especially when using higher frequencies.

- **Screening Effectiveness**
  - Screening effectiveness describes how much and a cable prevents electrical energy escaping from or entering into a transmission line. Improving this value is allowed by applying double braids, foil under bonding (Low Loss Cables) or non-corrosive (Semi Flex Cables) as the outer conductor.

- **Temperature Range**
  - Improving on the material used, cables may be applied in different ambient temperature ranges. Cables with the yellow picture are characterized in accordance with PVC, cables with the grey picture may be used up to approx. 120°C. PTFE or FEP cables are further temperature resistance on request. General Design of Coaxial Cables
In addition to the wide range of coaxial connectors, Telegärtner offers suitable coaxial cables with a characteristic impedance of either 50 or 75 Ohm. This makes it easier for engineers and technicians to choose exactly the right cable for their specific needs. The portfolio includes standard RG cables, high-quality PTFE cables, Low Loss cables as well as hand-formable and highly shielded Semi Flex cables. Furthermore, the portfolio also includes UL approved versions for selected cable types.

Coaxial cables can be ordered ex stock in coiled and tied standard unit rings. Selected types are also available on complete cable drums.

More Customised: assembling RF cables online

Do you want to assemble RF cables with coaxial connectors according to your own specifications and at your own pace? Then the COAX configurator is just what you need.

... simple: A product assembly wizard and detailed price breakdown are available online.
... fast: Create your own assembly quickly and easily to find out how much you can save.
... your orientation: And if you need any further information, you can retrieve it in order to configure your individual cable assembly.

Coaxial Cables

X-bend 58 PUR

- 50 Ohm
- used for drag chains
- very flexible and robust
- very flexible and flame retardant
- flame retardant made of PE or flame retardant compound material

Low Loss 400 Rail FR LSZH

- 50 Ohm
- approved for installation and use in trains
- very robust
- highly flame retardant according to DIN 4102-B1
- low attenuation
- flame retardant

Low Loss HD

- 75 Ohm
- designed for studio equipment and broadcast vans
- sufficient for high-speed transmission
- flame retardant jacket and thus well-suited for indoor applications

Low Loss 50-003

- 50 Ohm
- designed for studio equipment and broadcast vans
- sufficient for high-speed transmission
- flame retardant jacket and thus well-suited for indoor applications

Simple RG Cables

- Single or double blind as a single conductor
- jacket made of PTFE or FEP
- available in 50 Ohm and 75 Ohm
- for many various applications

RG Cable with Jacket Made of PTFE/FEP

- Single or double blind as a single conductor
- high-quality jacket made of PTFE or FEP
- available in 50 Ohm and 75 Ohm for HDTV applications
- for applications in harsh environments
- high-temperature resistant

Low Loss Cables

- 50 Ohm
- used for drag chains
- very flexible and robust
- designed for approx. 2 million bending cycles
- resistant to oil and UV radiation, flame retardant, halogen free

Semi Flex Cables

- 50 Ohm
- used for high-frequency applications
- flexible design with inner conductor made of 19 strands
- available with jacket made of PVC, PE or flame retardant compound material

User-friendly input mask ...

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http://www.telegaertner.com/news

Coaxial Cables

in Bulk Rings or on Cable Drums

Please note the terms of delivery at www.telegaertner.com

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