In addition to the wide range of coaxial connectors, Tele-
"gärtner offers suitable coaxial cables with a characteristic
impedance of either 50 or 75 Ohm. This enables a one-stop
shopping process for connectors and cables for our custo-
mers. Using the Coax Configurator, customers can also
easily create and order their own cable assemblies online.

The coaxial cable range at Telegärtner includes standard RG
cables, high-quality PTFE cables, Low Loss cables as well as
hand-formable and highly shielded Semi Flex cables. Furth-
ermore, the portfolio also includes UL-approved versions for
special cables. Telegärtner can be ordered as stock-in and to
order worldwide. The technical data are also available on
Telegärtner’s website.

Coaxial Cables

- 50 Ω
- used for digital cables
- very flexible and robust
- designed for indoor use
- suitable for rough environments
- shielded jacket and thus well-suited for
  indoor installation

- 75 Ω
- designed for studio equipment and broadcast uses
- very flexible
- flame retardant jacket and thus well-suited for
  indoor installation

User-friendly input mask ...

More Customised: assembling RF cables online

For you to assemble RF cables with coaxial connectors
you can either order them online or order them in store.

... simple, easily available to you on the click ... fast, ... and above you can configure your customised
assembly with a few clicks. Thanks to input and output
plug-in designs ... your orientation ... and from then on. If you
still have questions in order to configure your
individual cable assembly.

… simple,
... fast,
... user-oriented,
... and from then on.

More Customised: assembling RF cables online

User-friendly input mask ...

More Customised: assembling RF cables online

More Customised: assembling RF cables online

more customized:

Simple Rig Cables

- well known standard worldwide
- single or double braid as outer conductor
- jacket made of PTFE or another compound material
- available in 50 Ohm and 75 Ohm
- for many various applications

Low Loss Cables

- 50 Ω
- very flexible and robust
- designed for indoor use
- suitable for rough environments
- shielded jacket and thus well-suited for
  indoor installation

- 75 Ω
- designed for studio equipment and broadcast uses
- very flexible
- flame retardant jacket and thus well-suited for
  indoor installation
4.3-10 Serie
HF Steckverbinder für Mobilfunk-Anwendungen

COAX
ONLINE CATALOGUE
www.telegaertner.com

You can find all the COAX products in the overview in our
Simple RG Cables
• well-known standard worldwide
• single or double braid as outer conductor
• jacket made of PVC, PE or other compound material
• available in 50 Ohm and 75 Ohm
• for many various applications

RG Cable with Jacket Made of PTFE/FEP
• single or double braid as outer conductor
• high-quality jacket made of PTFE or FEP
• resistant to oil, UV radiation and chemicals
• available in 50 Ohm and 75 Ohm
• for applications in harsh environments
• 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
• for long transmission lines
• available in 50 Ohm and also in 75 Ohm for HDTV

Semi Flex Cables
• very dense outer conductor braid that has been extruded to be suitable for very high screening effectiveness
• available with or without PTFE jacket (can be applied in parallel)
• hard to handle, keeps the shape after bending
• available in 50 Ohm
• can be installed in highly electrically radiating environments or in areas where there are many electromagnetic interferences

In addition to the wide range of coaxial connectors, Tele-gärtner offers suitable coaxial cables with a characteristic impedance of either 50 or 75 Ohm. This allows a quick and easy combination of connectors and cables for a wide range of applications. The cables are available in many lengths and ready-made and can be used for various applications such as in automotive applications or in devices where the cables must not become too flexible. A range of high-quality RG cables, low-loss cables as well as semi-flexible cables is available in the Coaxial Cables online shop. Furthermore, the portfolio also includes UL approved versions for selected cable types.

Coaxial Cables
in Bulk Rings or on Cable Drums

For individually assembled RF cables

More Customised: assembling RF cables online

Do you need to assemble RF cables with coaxial connectors whereby the cables should be well suited to your requirements? Then the Coax Configurator is the tool for you. It enables you to configure your assembly with a few clicks. Thanks to a logical and easy-to-understand user guidance, even non-experts can do their things comfortably.

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

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Do you need to assemble RF cables with coaxial connectors whereby the cables should be well suited to your requirements? Then the Coax Configurator is the tool for you. It enables you to configure your assembly with a few clicks. Thanks to a logical and easy-to-understand user guidance, even non-experts can do their things comfortably.
Coaxial Cables

In addition to the wide range of coaxial connectors, Telegärtner also provides complete cables with a characteristic impedance of either 50 or 75 Ohm. This makes a wide range of applications possible. The COAX series can be used in applications where good shielding is required. The cables are made of high-quality materials and coated with a PTFE jacket. For exact dimensions, please refer to the drawing.

Simple RG Cables

- well-known standard worldwide
- single or double braid as outer conductor
- jacket made of PTFE or FEP
- suitable for indoor use
- available in 50 Ohm and 75 Ohm
- for many different applications

Low Loss Cables

- foil and single braid conductor in combination with foamed dielectric for lowest signal loss
- jacket made of PTFE, or other compound material
- for long transmission lines
- available in 50 Ohm and also in 75 Ohm for HDTV

Semi Flex Cables

- very dense outer conductor braid that has been treated for high screening effectiveness
- available with or without PTFE jacket (application pending)
- high flexibility, low signal after bending
- available in 50 Ohm
- can be installed in highly electrically radiating environments or devices (e.g., motor or transformer) without generating electromagnetic interference
- for frequencies up to 18 GHz

Coaxial Cables in Bulk Rings or on Cable Drums

- for individually assembled RF cables

User-friendly input mask ...

... and creation of a clear specification (PDF)

Do you want to assemble RF cables with coaxial connectors according to your own needs? Then the COAX configurator is just what you need!

Simple, easily available from stock
- fast, and above all you can configure your customised assembly with a few clicks. Thanks to its input guidance, you are guided through the process step by step.

Your individualisation: and now you finally have the information you require in order to configure your individual cable assembly.

More Customised: assembling RF cables online

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PORTFOLIO HIGHLIGHTS

X-bend 58 PUR

- 50 Ohm
- used for drag chains
- very flexible and robust
- resistant to oil and UV radiation, flame retardant, halogen free

RG-58 Types

- 50 Ohm
- very common coax cable for various applications
- flexible design with inner conductor made of 19 strands
- jacket made of PVC, PE or flame retardant compound material

Low Loss 400 Rail FR LS ZH

- 50 Ohm
- approved for installation and use in trains
- highly flame retardant according to EN 45545-2, NFF 16101
- low attenuation
- halogen free

Low Loss HD

- 50 Ohm
- designed for studio equipment and broadcast rates
- flexible design with inner conductor made of 19 strands
- resistant jacket and thus well-suited for indoor installations

Low Loss Cables

- 50 Ohm
- suitable for installation and use in trains
- very robust
- highly flame retardant according to EN 45545-2, NFF 16101
- low attenuation
- halogen free

Low Loss 400 Rail FR LS ZH

- 50 Ohm
- approved for installation and use in trains
- very robust
- highly flame retardant according to EN 45545-2, NFF 16101
- low attenuation
- halogen free

RG Cable with Jacket Made of PTFE/FEP

- single or double braid as outer conductor
- high-quality jacket made of PTFE or FEP
- suitable for indoor use
- available in 50 Ohm and 75 Ohm
- very flexible
- flame retardant
- for many different applications
**Criteria for Selecting Suitable Coaxial Cables**

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

- **Impedance 50 Ohm or 75 Ohm**
- **Insulation Loss (Attenuation)**
- **Screening Effectiveness**
- **Temperature Range**

### General Design of Coaxial Cables

<table>
<thead>
<tr>
<th>Inner Conductor: Copper</th>
<th>Copper</th>
<th>Copper, Copper-Aluminium, Copper-Aluminium-Silicon</th>
<th>Copper-Aluminium-Silicon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation: PTFE, FEP</td>
<td>PTFE, FEP</td>
<td>PVC, PE</td>
<td>PVC, PE</td>
</tr>
</tbody>
</table>

### Technical Characteristics

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

- **Impedance 50 Ohm or 75 Ohm**
- **Insulation Loss (Attenuation)**
- **Screening Effectiveness**
- **Temperature Range**

### Table: Criteria for Selecting Suitable Coaxial Cables

<table>
<thead>
<tr>
<th>Type</th>
<th>Order No.</th>
<th>Length / Order No.</th>
<th>Cable Ø [mm]</th>
<th>Design Material</th>
<th>Ø [mm]</th>
<th>Material</th>
<th>Ø [mm]</th>
<th>Material</th>
<th>Ø [mm]</th>
<th>...</th>
<th>Min. Bend. Radius [mm]</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>RG-174</td>
<td>L01000D0009</td>
<td>100 L01000T0009 500</td>
<td>G7 0.48 stranded Cu 1.52 PE single CuZ 2.85 PVC black</td>
<td>66</td>
<td>97</td>
<td>142</td>
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**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 select 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 Impedance is required.

- **Technical Characteristics**
  - A variety of technical characteristics is shown in the product table of this brochure. Using this table will help you easily and quickly select the right cable for your application.

### General Design of Coaxial Cables

#### Inner Conductor:
- made of copper-plated/alu.
- tinned copper/plated steel wire
- copper/aluminium/steel

#### Insulation:
- PE
- PTFE

#### Jacket:
- Low Loss
- FRNC
- LSZH

---

### Technical Changes Reserved.
More Customised: assembling RF cables online

Do you need to assemble RF cables with coaxial connectors matching your own specifications? And do you want to ensure that your requirements are taken into account? Then get COAX online configurator from Tele-Gärtner for all products you want and...
• simple: units available to you around the clock
• fast, and above all to configure your customized assembly with just a few clicks. Thanks to input and output signal monitoring, your configuration is...
• user orientated: until of how you really need it. In formation you require in order to configure your individual cable assembly.

User-friendly input mask ...

... and creation of a clear specification (PDF)

In addition to the wide range of coaxial connectors, Tele-Gärtner offers suitable coaxial cables with a characteristic impedance of either 50 or 75 Ohm. This enables a one-stop shopping process for connectors and cables for our customers. Using the Coax Configurator, customers can also easily create and order their own cable assemblies online.

The coaxial cable range at Telegärtner 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 encompasses special cables like a suitable cable for drag chains or a railway-approved Low Loss cable. Telegärtner also offers 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.

X-bend 58 PUR
• 50 Ω
• used for drag chains
• very flexible and robust
• resistant to oil and UV radiation, flame resistant, fire retardant

RG-58 Types
• 50 Ω
• very common coax cable for various applications
• flexible design with inner conducter made of Cu braid
• designed for use with made of PVC, PE or flame retardant component material

Low Loss 400 Rail FR LS ZH
• 50 Ω
• approved for installation and use in trains
• very robust
• Flame-Rated retardent according to EN 60332-3-22, NF 603323
• low attenuation
• fire retardant

Low Loss HD
• 75 Ω
• designed for studio equipment and broadcast rates
• highly flexible and thus well-suited for indoor installations

The portfolio

Coaxial Cables

in Bulk Rings or on Cable Drums

Simple RG Cables
• single or double braid as outer conductor
• jacket made of PTFE or other compound material
• available in 50 Ohm and 75 Ohm
• for many various applications

RG Cable with Jacket Made of PTFE/FEP
• single or double braid as outer conductor
• high-quality jacket made of PTFE or other compound material
• available in 50 Ohm and 75 Ohm
• for applications in harsh environments
• high-temperature resistant

Low Loss Cables
• full single braid as outer conductor in combination with foamed dielectric for lowest signal losses
• jacket made of PTFE, or other compound material
• available in 50 Ohm and 75 Ohm
• for long transmission lines
• available in 50 Ohm and also in 75 Ohm for HDTV

Semi Flex Cables
• very same outer conductor braid that has been extended for high screening effectiveness
• available with or without PTFE jacket (application specific)
• flame retardant, keeps the shape after bending
• available in 50 Ohm
• can be installed in highly electrically radiating environments due to its design which prevents (dis)charges or damps low frequency electromagnetic fields
• for frequencies up to 18 GHz

Coaxial Cables

in Bulk Rings or on Cable Drums