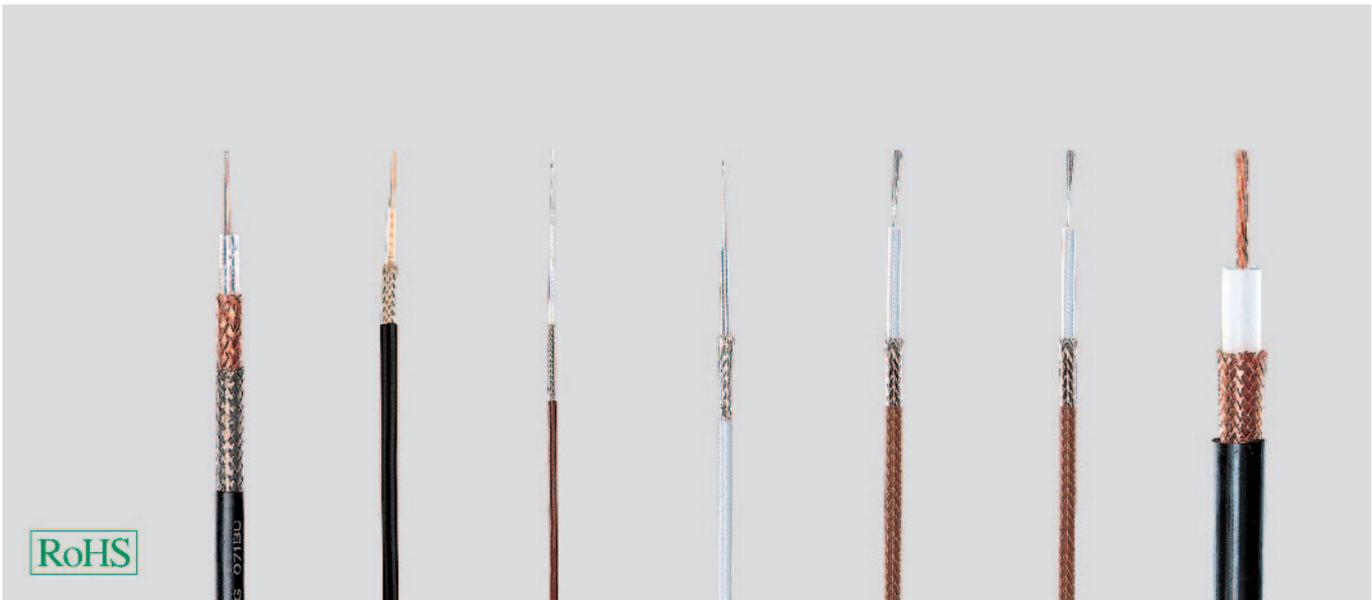


# RG-Coaxial Cables



RG-Type.../U	71	174	178	179	180	187	213
Part No.	40006	40197	40007	40008	40009	40010	40012
<b>Cable structure</b>							
Inner conductor ø mm	1 x 0,65 Steel/copper, bare	7 x 0,16 Steel/copper, bare	7 x 0,1 Steel/copper, silvered	7 x 0,75 Copper, bare			
Insulation ø mm	3,7 PE, hollow	1,52 PE	0,86 PTFE	1,6 PTFE	2,6 PTFE	1,6 PTFE	7,24 PE
Outer conductor	2 braids Copper, bare Tinned copper	Braid Tinned copper	Braid Silvered copper	Braid Silvered copper	Braid Silvered copper	Braid Silvered copper	Braid Copper, bare
Outer jacket	PE	PVC	FEP	FEP	FEP	PFA	PVC
Min. bending radius ca. mm	30	15	10	15	25	15	50
Temperature range °C	-50 to +70	-35 to +80	-55 to +200	-55 to +200	-55 to +200	-55 to +200	-35 to +80
Cu weight kg/km	48,0	7,0	6,4	7,3	11,0	8,5	79,0
Approx. outer ø mm	6,2	2,8	1,8	2,54	3,7	2,65	10,3
Approx. weight kg/km	62	11	8	16	28	17	159
<b>Electrical characteristics</b>							
<b>Impedance (Ohm)</b>	<b>93 ± 3</b>	<b>50 ± 2</b>	<b>50 ± 2</b>	<b>75 ± 3</b>	<b>95 ± 5</b>	<b>75 ± 3</b>	<b>50 ± 2</b>
Frequency range							
f (max) GHz	3	1	3	3	3	3	3
Propagation velocity v/c	0,83	0,66	0,7	0,7	0,7	0,7	0,66
Attenuation at 20°C (dB/100m)							
100 MHz	10,5	30,0	43,0	28,0	20,0	28,0	7,0
200 MHz	15,0	45,0	62,0	41,0	33,0	41,0	10,2
500 MHz	24,5	73,0	102,0	69,0	-	69,0	17,0
800 MHz	32,5	93,0	134,0	92,0	-	92,0	23,0
Approx. capacitance pF/m	42,5	101,0	93,0	63,0	50,0	64,0	101,0
Rel. velocity of propagation %	83	70	70	70	70	70	100
Insulation resistance MΩm x km min.	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>
Loop resistance max. (Ωm/km)	136	360	860	840	840	840	10
Nominal peak voltage kVs	1,5	1,1	1,1	1,3	1,6	1,3	5,2
Dielectric strength 50 Hz kVeff	3,0	2,0	2,0	2,0	2,0	2,0	2,0

Dimensions and specifications may be changed without prior notice.

## Application

Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as per cable type.

## Note

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.
- The colour at FEP and PFA outer jacket is black or transparent as per production outlet.
- RG-Coaxial types are in accordance with US-Military specifications MIL-C-17.
- RG/U: R=Radio, G=Guide, U=Utility