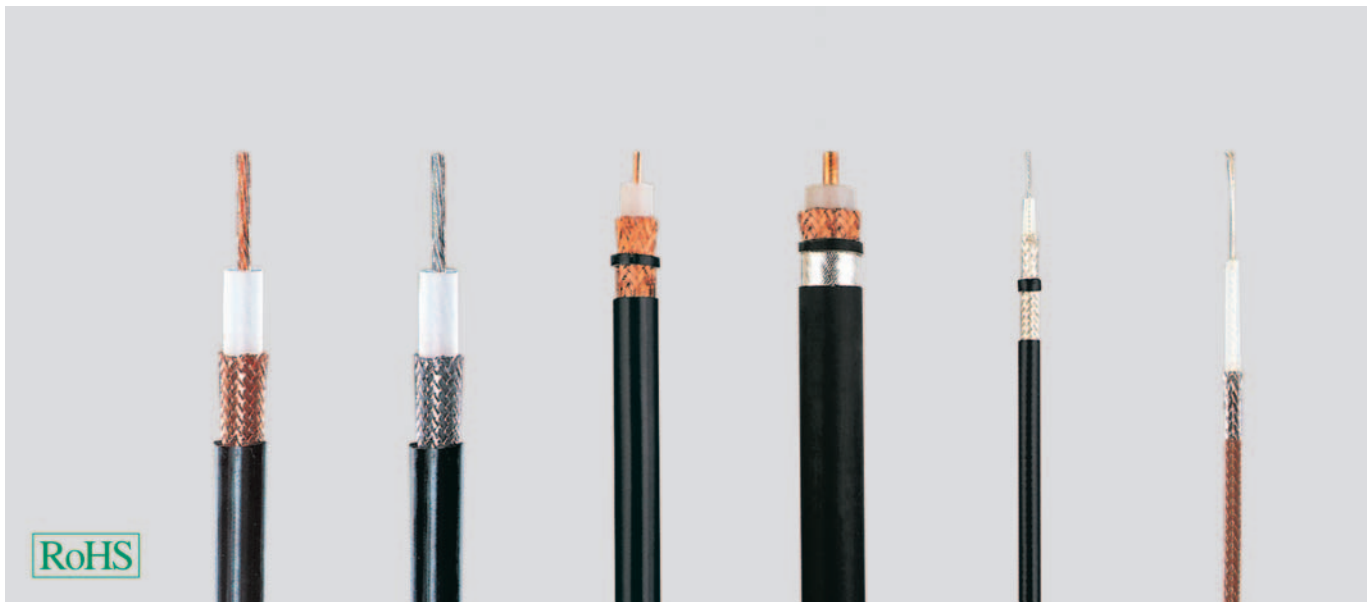


# RG-Coaxial Cables



Type	RG 213	RG 214 U	RG 217	RG 218	RG 223 U	RG 316 B/U
Part no.	40012	40011	40200	40201	40202	40203
<b>Cable structure</b>						
Inner conductor diameter mm	7 x 0,8	7 x 0,8	1 x 2,7	1 x 4,95	1 x 0,9	7 x 0,2
Insulation Ø mm	7,24 PE	7,24 PE	9,4 PE	17,3 PE	2,95 PE	1,52 PTFE
Outer conductor	Braid Copper, bare	2 braids 2x silvered copper	2 braids Copper, bare	Braid Copper, bare	2 braids 2x silvered copper	Braid Silvered copper
Outer sheath	PVC	PVC	PVC	PVC	PVC	PTFE/ alt. FEP
Min. bending radius approx. mm	50	50	70	110	25	15
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-55 to +200
Copper weight kg/km	85,0	120,0	187,0	348,0	44,0	9,0
Outer Ø approx. mm	10,3	10,8	13,84	22,1	5,2	2,5
Weight approx. kg / km	159	198	300	710	60	15
<b>Electrical characteristics</b>						
<b>Impedance (Ohm)</b>	<b>50 ± 2</b>	<b>50 ± 2</b>	<b>50 ± 2</b>	<b>50 ± 2</b>	<b>50 ± 2</b>	<b>50 ± 2</b>
Frequency range						
f (max.) GHz	3	11	3	3	3	3
Propagation velocity v/c	0,7	0,7	0,66	0,66	0,7	0,7
Attenuation at 20°C (db/100m)						
100 MHz	7	7	4,8	2,9	17	28
200 MHz	10,2	10,2	7,1	4,5	23	40
500 MHz	17	17	12,3	8,1	38	68
800 MHz	23	23	16,8	11,2	50	90
1000 MHz	-	-	-	-	-	-
1350 MHz	-	-	-	-	-	-
1750 MHz	-	-	-	-	-	-
Capacitance pF/m	101	101	101	101	101	95
Rel. velocity of propagation %	100	67	100	100	67	70
Insulation resistance MOhm x kmmin.	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. (Ohm/km)	10	10	5	2	36	310
Nominal peak voltage kVs	5	5	7	11	2	1
Dielectric strength 50 Hz kVeff	10	10	10	15	5	2

Dimensions and specifications may be changed without prior notice.

## 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 outer sheath at PTFE is brown 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

## 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.