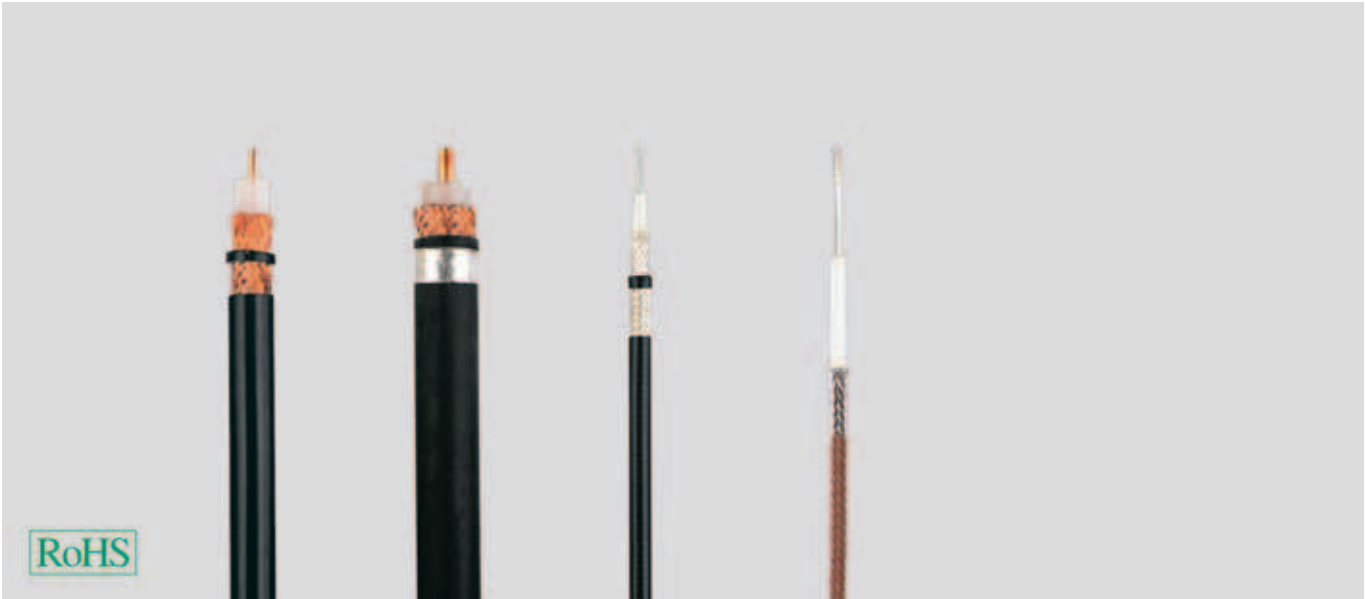


# RG-Coaxial Cables



Type	RG 217	RG 218	RG 223 U	RG 316 B/U
Part no.	40200	40201	40202	40203
<b>Cable structure</b>				
Inner conductor Ø mm	1 x 2,7 Copper, bare	1 x 4,95 Copper, bare	1 x 0,9 Silvered copper	7 x 0,2 Steel/copper, silvered
Insulation Ø mm	9,4 PE	17,3 PE	2,95 PE	1,52 PTFE
Outer conductor	2 braids Copper, bare	Braid Copper, bare	2 braids 2x silvered copper	Braid Silvered copper
Outer sheath	PVC	PVC	PVC	PTFE/ alt. FEP
Min. bending radius app. mm	70	110	25	15
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-55 to +200
Copper weight kg/km	187,0	348,0	44,0	9,0
Outer Ø app. mm	13,84	22,1	5,2	2,5
Weight app. kg / km	300	710	60	15

## Electrical characteristics

Impedance (Ohm)	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Frequency range				
f (max.) GHz	3	3	3	3
Propagation velocity v/c	0,66	0,66	0,7	0,7
Attenuation at 20°C (db/100m)				
100 MHz	4,8	2,9	17	28
200 MHz	7,1	4,5	23	40
500 MHz	12,3	8,1	38	68
800 MHz	16,8	11,2	50	90
1000 MHz	-	-	-	-
1350 MHz	-	-	-	-
1750 MHz	-	-	-	-
Capacitance pF/m	101	101	101	95
Rel. velocity of propagation %	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>
Loop resistance				
max. (Ohm/km)	5	2	36	310
Nominal peak voltage kVs				
	7	11	2	1
Dielectric strength				
50 Hz kV eff	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.