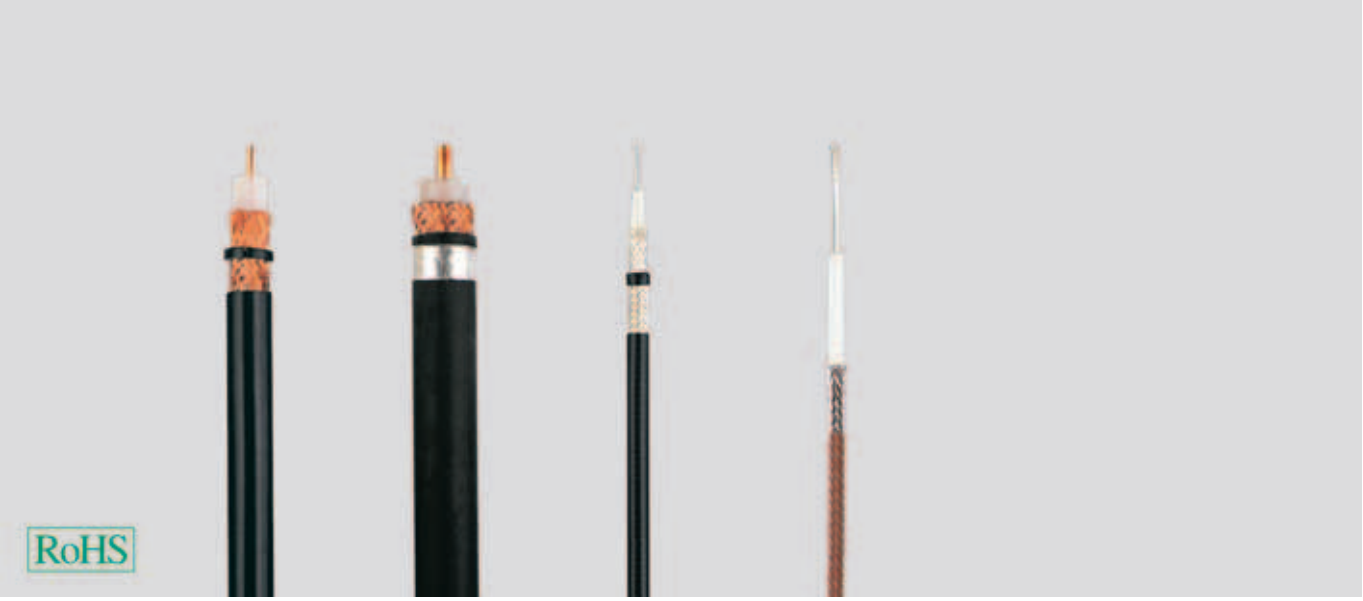
RG-Coaxial Cables



Type	**RG 217**	**RG 218**	**RG 223 U**	**RG 316 B/U**
Part no.	40200	40201	40202	40203
Cable structure				
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	-	-	-	-
CapacitancepF/m	101	101	101	95
Rel. velocity of propagation %	100	100	67	70
Insulation resistance MOhm x kmmin.	10^5	10^5	10^5	10^5
Loop resistance max. (Ohm/km)	5	2	36	310
Nominal peak voltagekVs	7	11	2	1
Dielectric strength 50 Hz kV eff	10	15	5	2
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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.