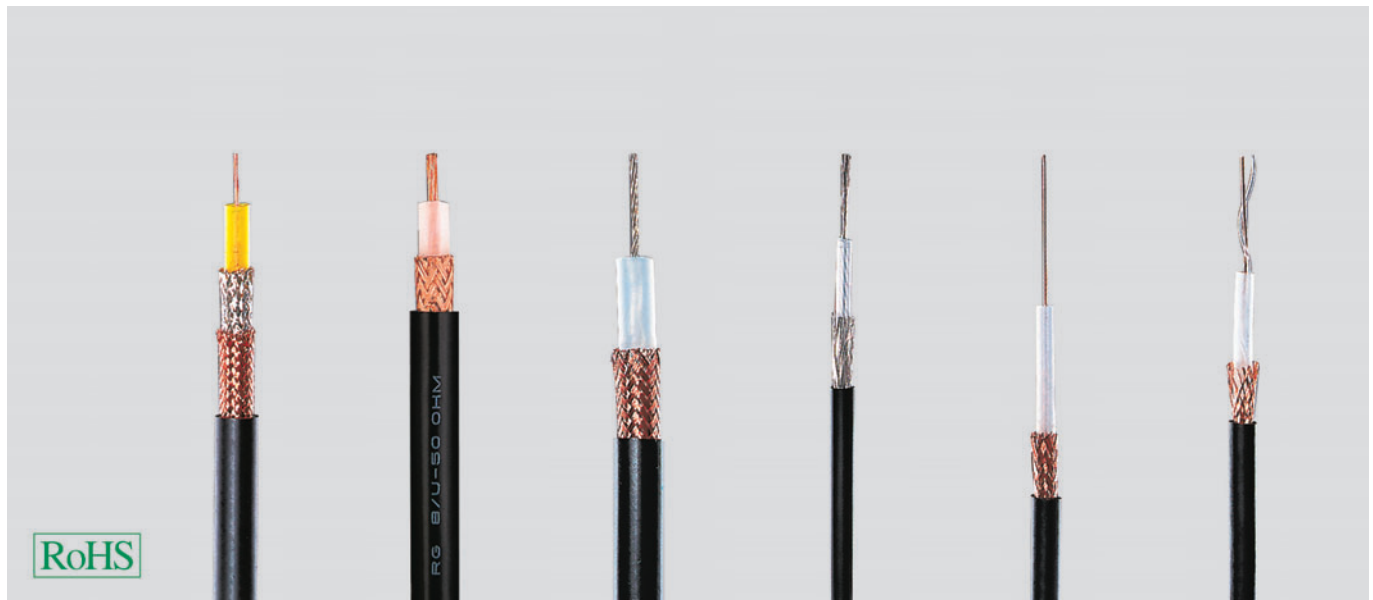


RG-Coaxial Cables



Type RG.../U	6	8	11	58	59	62
Part no.	40001	40013	40002	40003	40004	40005

Cable structure

Inner conductor diameter mm	1 x 0,72	7 x 0,72	7 x 0,4	19 x 0,18	1 x 0,6	1 x 0,65
	Steel/copper, bare	Copper, bare	Tinned copper	Tinned copper	Steel/copper, bare	Steel/copper, bare
Insulation Ø mm	4,7 PE	6,4 PE	7,3 PE	2,95 PE	3,7 PE	3,7 PE, hollow
Outer conductor	2 braids Silvered copper Copper, bare	Braid Copper, bare	Braid Copper, bare	Braid Tinned copper	Braid Copper, bare	Braid Copper, bare
Outer jacket	PVC	PVC	PVC	PVC	PVC	PVC
Min. bending radius approx. mm	40	50	50	25	30	30
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-35 to +80
Copper weight kg/km	67,0	62,0	58,0	21,0	26,0	26,0
Outer Ø approx. mm	8,4	9,5	10,3	4,95	6,2	6,15
Weight approx. kg / km	115	128	140	38	57	52

Electrical characteristics

Impedance (Ohm)	75 ± 3	50 ± 2	75 ± 3	50 ± 2	75 ± 3	95 ± 5
Frequency range						
f (max.) GHz	3	3	3	3	3	3
Propagation velocity v/c	0,66	0,66	0,66	0,66	0,66	0,83
Attenuation at 20 °C (dB/100m)						
100 MHz	8,8	8	7,5	17	11,5	10,5
200 MHz	13,5	10,8	11	24	16,5	15
500 MHz	21	17	18,5	39	27	24,5
800 MHz	27,5	25	24	51	35	32,5
1000 MHz	-	26,5	30	56	41	35
1350 MHz	-	30,6	-	-	-	-
1750 MHz	-	35	-	-	-	-
Capacitance pF/m	67	101	67	101	67	42,5
Rel. velocity of propagation %	67	66	67	67	67	83
Insulation resistance MOhm x km min.	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Loop resistance max. (Ohm/km)	110	11	23	53	171	155
Nominal peak voltage kVs	2,8	5,1	5,2	2,5	3,5	1,1
Dielectric strength 50 Hz kVeff	7	9,5	10	5	7	3

Dimensions and specifications may be changed without prior notice. (RM01)

Note

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.
- 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.