

RG-Coaxial cables



RG-Type ... /U	6	8	11	58	058	59	062
Part No.	40001	40013	40002	40014	40003	40004	40005
Cable structure							
Inner conductor	StCu-bare	Cu-bare	Cu-tinned	Cu-bare	Cu-tinned	StCu-bare	StCu-bare
∅ mm	1 x 0,72	7 x 0,72	7 x 0,4	16 x 0,20	19 x 0,18	1 x 0,6	1 x 0,65
Insulation	PE	PE	PE	PE	PE	PE	PE-air
∅ mm	4,7	6,4	7,3	2,95	2,95	3,7	3,7
Outer conductor	2 braidings	braiding	2 braidings	2 braidings	braiding	2 braidings	braiding
	2 x Cu-silverplated	Cu-bare	Cu-bare	Cu-bare	Cu-bare	2 x Cu-silverplated	Cu-silverplated
Outer jacket	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Min. bending radius approx. mm	40	50	50	25	25	30	30
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 bis +80	-35 to +80	-35 to +80	-35 to +80
Cu weight kg/km	67,0	62,0	58,0	21,0	21,0	26,0	26,0
Approx. outer ∅ ca. mm	8,4	9,5	10,3	4,95	4,95	6,2	6,15
Approx. weight kg/km	115	128	140	38	38	57	52
Electrical characteristics							
Impedance (Ohm)							
	75 ± 3	50 ± 2	75 ± 3	50 ± 2	50 ± 2	75 ± 3	93 ± 5
Frequency range f (max) GHz	3	3	3	3	3	3	3
Propagation velocity v/c	0,66	0,66	0,66	0,66	0,66	0,66	0,83
Attenuation at 20 °C (dB/100 m)							
100 MHz	8,8	8,0	7,5	17,0	17,0	11,5	10,5
200 MHz	13,5	10,8	11,0	24,0	24,0	16,5	15,0
500 MHz	21,0	17,0	18,5	39,0	39,0	27,0	24,5
800 MHz	27,5	25,0	24,0	51,0	51,0	35,0	32,5
1000 MHz	-	26,5	30,0	57,2	56,0	41,0	35,0
1350 MHz	-	30,6	-	63,4	-	-	-
1750 MHz	-	35,0	-	-	-	-	-
Approx. capacitance pF/m	67	101	67	101	101	67	42,5
Rel. velocity of propagation %	67	66	67	67	67	67	83
Insulation resistance MOhm x km min.	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Loop resistance max. (Ohm/km)	110	11,5	23	53	53	171	13
Nominal peak voltage kVs	2,8	5,1	5,2	2,5	2,5	3,5	1,1
Dielectric strength 50 Hz kVeff	7,0	9,5	10	5,0	5,0	7,0	3,0

RG ... /U = Basetype to MIL-C-17

Continuation ▶

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.

– 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. Further types available on request. Please also note our multi-core versions.

RG/U: R = Radio, G = Guide, U = Utility