

RG-Coaxial Cables



RG-Type.../U	6	8	11	58	058	59	62
Part No.	40001	40013	40002	40014	40003	40004	40005
Cable structure							
Inner conductor ø mm	1 x 0,72 Steel/copper, bare	7 x 0,72 Copper, bare	7 x 0,4 Tinned copper	16 x 0,2 Copper, bare	19 x 0,18 Tinned copper	1 x 0,6 Steel/copper, bare	1 x 0,65 Steel/copper, bare
Insulation ø mm	4,7 PE	6,4 PE	7,3 PE	2,95 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 Copper, bare	Braid Tinned copper	Braid Copper, bare	Braid Copper, bare
Outer jacket	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Min. bending radius ca. mm	40	50	50	25	25	30	30
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +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 ø 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/100m)							
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	67,0	101,0	67,0	101,0	101,0	67,0	42,5
Rel. velocity of propagation %	67	66	67	67	67	67	83
Insulation resistance MΩm x km min.	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Loop resistance max. (Ωm/km)	110	11	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	10,0	5,0	5,0	7,0	7,0

Dimensions and specifications may be changed without prior notice.

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.

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