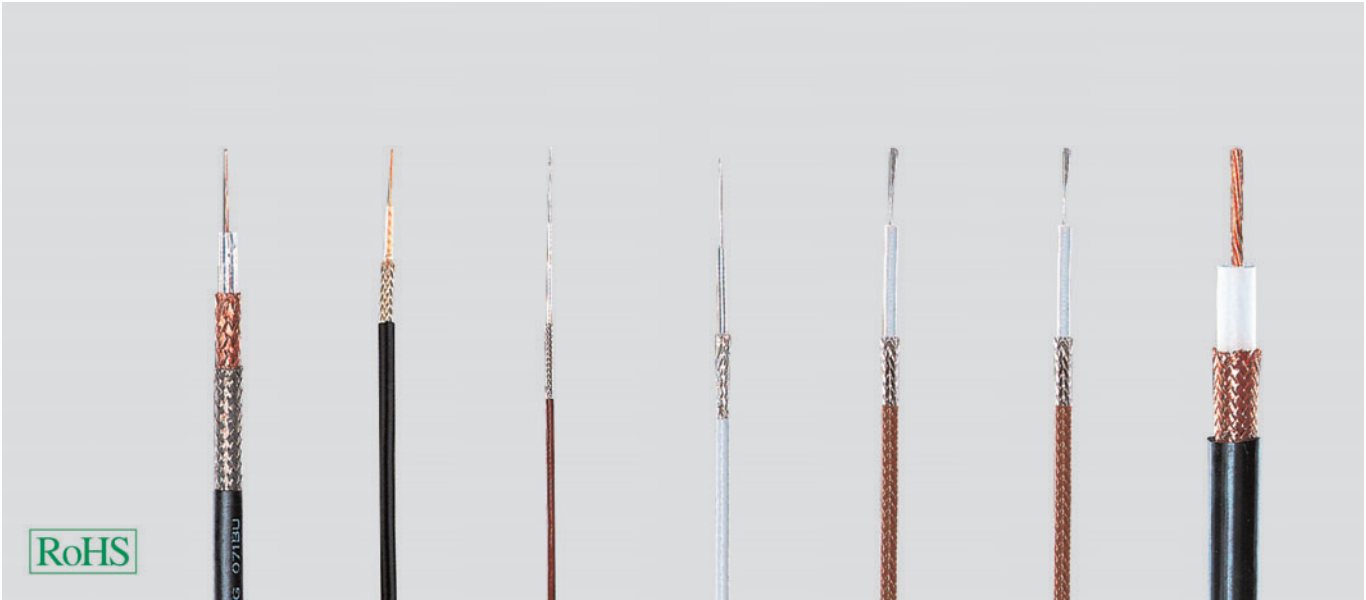


RG-Coaxial Cables



Type RG.../U	71	174	178	179	180	187	213
Part no.	40006	40197	40007	40008	40009	40010	40012
Cable structure							
Inner conductor diameter mm	1 x 0,65 Steel/copper, bare	7 x 0,16 Steel/copper, bare	7 x 0,1 Steel/copper, silvered	7 x 0,1 Steel/copper, silvered	7 x 0,1 Steel/copper, silvered	7 x 0,1 Steel/copper, silvered	7 x 0,75 Copper, bare
Insulation Ø mm	3,7 PE, hollow	1,52 PE	0,86 PTFE	1,6 PTFE	2,6 PTFE	1,6 PTFE	7,24 PE
Outer conductor	2 braids Copper, bare Tinned copper	Braid Tinned copper	Braid Silvered copper	Braid Silvered copper	Braid Silvered copper	Braid Silvered copper	Braid Copper, bare
Outer jacket	PE	PVC	FEP	FEP	FEP	PFA	PVC
Min. bending radius approx. mm	30	15	10	15	25	15	50
Temperature range °C	-50 to +70	-35 to +80	-55 to +200	-55 to +200	-55 to +200	-55 to +260	-35 to +80
Copper weight kg/km	48,0	7,0	6,4	7,3	11,0	8,5	79,0
Outer Ø approx. mm	6,2	2,8	1,8	2,54	3,7	2,65	10,3
Weight approx. kg / km	62	11	8	16	28	17	159

Electrical characteristics

Impedance (Ohm)	95 ± 3	50 ± 2	50 ± 2	75 ± 3	95 ± 5	75 ± 3	50 ± 2
Frequency range							
f (max.) GHz	3	1	3	3	3	3	3
Propagation velocity v/c	0,83	0,66	0,7	0,7	0,7	0,7	0,66
Attenuation at 20°C (dB/100m)							
100 MHz	10,5	30	43	28	20	28	7
200 MHz	15	45	62	41	33	41	10,2
500 MHz	24,5	73	102	69	-	69	17
800 MHz	32,5	93	134	92	-	92	23
Capacitance pF/m	42,5	101	93	63	50	64	101
Rel. velocity of propagation %	83	70	70	70	70	70	100
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)	136	360	860	840	840	840	10
Nominal peak voltage kVs	1,5	1,1	1,1	1,3	1,6	1,3	5,2
Dielectric strength							
50 Hz kVeff	3	2	2	2	2	2	10

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.
- The colour at FEP and PFA outer jacket is black 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.