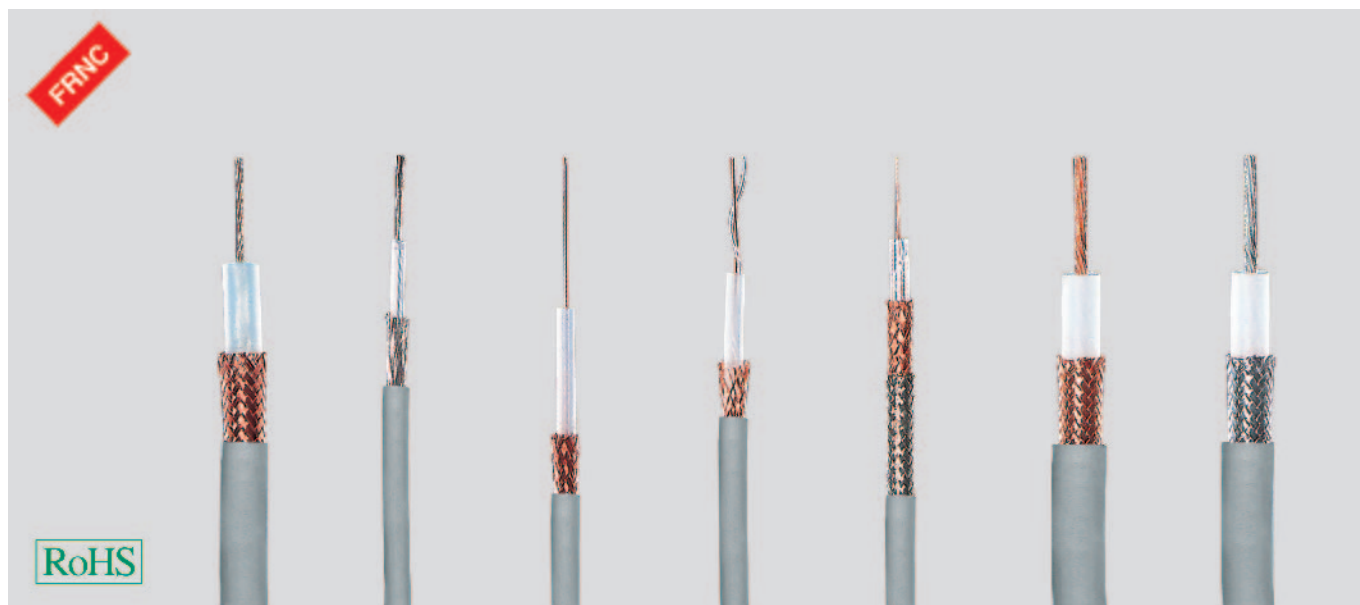


# Halogen-Free RG-Coaxial Cables



RG-Type.../U Part No.	11 40190	058 40191	59 40192	62 40193	71 40194	213 40195	214 40196
<b>Cable structure</b>							
Inner conductor ø mm	7 x 0,4 Tinned copper	19 x 0,18 Tinned copper	1 x 0,6 Steel/copper, bare	1 x 0,65 Steel/copper, bare	1 x 0,65 Steel/copper, bare	7 x 0,75 Copper, bare	7 x 0,75 Silvered copper
Insulation ø mm	7,3 PE	2,95 PE	3,7 PE	3,7 PE, hollow	3,7 PE, hollow	7,24 PE	7,24 PE
Outer conductor	Braid Copper, bare	Braid Tinned copper	Braid Copper, bare	Braid Copper, bare	2 braids Copper, bare Tinned copper	Braid Copper, bare	2 braids 2x silvered copper
Outer jacket	HM2	HM2	HM2	HM2	HM2	HM2	HM2
Min. bending radius ca. mm	50	25	30	30	30	50	50
Temperature range °C	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-50 to +70	-35 to +80	-35 to +80
Cu weight kg/km	58,0	21,0	26,0	26,0	48,0	79,0	119,0
Approx. outer ø mm	10,3	5,4	6,4	6,4	6,9	10,3	10,8
Approx. weight kg/km	144	38	57	54	64	155	205
<b>Electrical characteristics</b>							
<b>Impedance (Ohm)</b>	<b>75 ± 3</b>	<b>50 ± 2</b>	<b>75 ± 3</b>	<b>93 ± 5</b>	<b>93 ± 3</b>	<b>50 ± 2</b>	<b>50 ± 2</b>
Frequency range							
f (max) GHz	3	3	3	3	3	3	11
Propagation velocity v/c	0,66	0,66	0,66	0,85	0,85	0,66	0,66
Attenuation at 20°C (dB/100m)							
3 MHz	1,3	2,9	2,0	2,0	2,0	1,2	1,2
10 MHz	2,4	5,3	3,8	3,7	3,7	2,3	2,3
100 MHz	7,8	17,0	12,2	12,0	12,5	7,5	7,5
200 MHz	11,3	24,4	17,6	17,3	17,3	10,9	10,9
500 MHz	18,7	39,2	27,2	24,7	24,7	17,2	17,2
800 MHz	23,4	47,8	35,2	34,6	34,6	22,6	22,6
Approx. capacitance pF/m	68,0	-	68,0	42,5	42,5	101,0	101,0
Rel. velocity of propagation %	67	67	67	43	43	101	101
Insulation resistance							
MΩm x km min.	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>
Loop resistance max. (Ωm/km)	23	53	171	13	136	10	10
Nominal peak voltage kVs	5,0	1,9	2,3	0,75	0,75	5,0	5,0
Dielectric strength							
50 Hz kVeff	10,0	5,0	7,0	3,0	3,0	10,0	10,0

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 where no flame propagation under behaviour in fire is permitted. 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.
- H-outer jacket = halogen-free material (HM2)
- RG-Coaxial types are in accordance with US-Military specifications MIL-C-17.
- RG/U: R=Radio, G=Guide, U=Utility
- FRNC = Flame Retardant Non-Corrosive