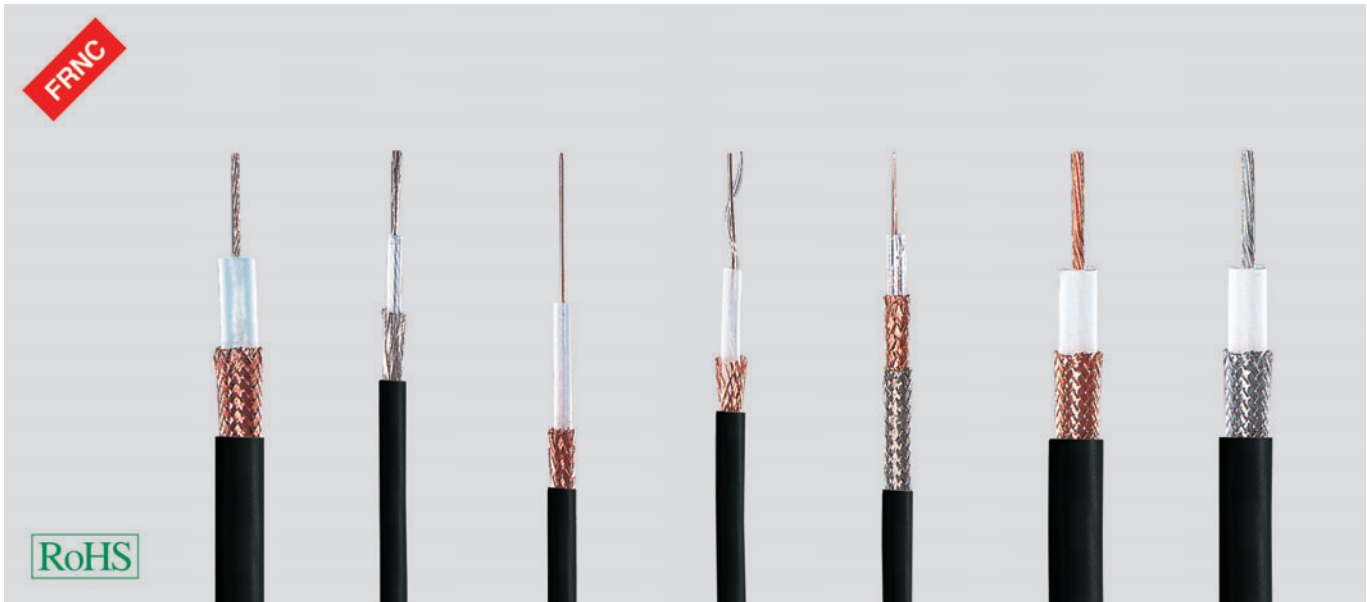


# Halogen-Free RG-Coaxial Cables



Type RG.../U	11	58	59	62	71	213	214
Part no.	40190	40191	40192	40193	40194	40195	40196
<b>Cable structure</b>							
Inner conductor diameter mm	7 x 0,4	19 x 0,18	1 x 0,6	1 x 0,65	1 x 0,65	7 x 0,75	7 x 0,75
Insulation Ø mm	Tinned copper	Tinned copper	Steel/copper, bare	Steel/copper, bare	Steel/copper, bare	Copper, bare	Silvered copper
Outer conductor	7,3 PE	2,95 PE	3,7 PE	3,7 PE, hollow	3,7 PE, hollow	7,24 PE	7,24 PE
Outer jacket	Braid	Braid	Braid	Braid	2 braids	Braid	2 braids
Min. bending radius approx. mm	Copper, bare	Tinned copper	Copper, bare	Copper, bare	Copper, bare	Copper, bare	2x silvered copper
Temperature range °C	-	-	-	-	Tinned copper	-	-
Copper weight kg/km	HM2	HM2	HM2	HM2	HM2	HM2	HM2
Outer Ø approx. mm	50	25	30	30	30	50	50
Weight approx. kg / km	-35 to +80	-35 to +80	-35 to +80	-35 to +80	-50 to +70	-35 to +80	-35 to +80
	58,0	21,0	26,0	26,0	48,0	79,0	119,0
	10,3	5,4	6,4	6,4	6,9	10,3	10,8
	144	38	57	54	64	155	203

Electrical characteristics	11	58	59	62	71	213	214
<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	2	2	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	12,2	12	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
Capacitance pF/m	68	0	68	42,5	42,5	101	101
Rel. velocity of propagation %	67	67	67	43	43	101	101
Insulation resistance							
MOhm 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. (Ohm/km)	23	53	171	155	136	10	10
Nominal peak voltage kVs	5	1,9	2,3	0,75	0,75	5	5
Dielectric strength							
50 Hz kV eff.	10	5	7	3	3	10	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.
- 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

## 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.