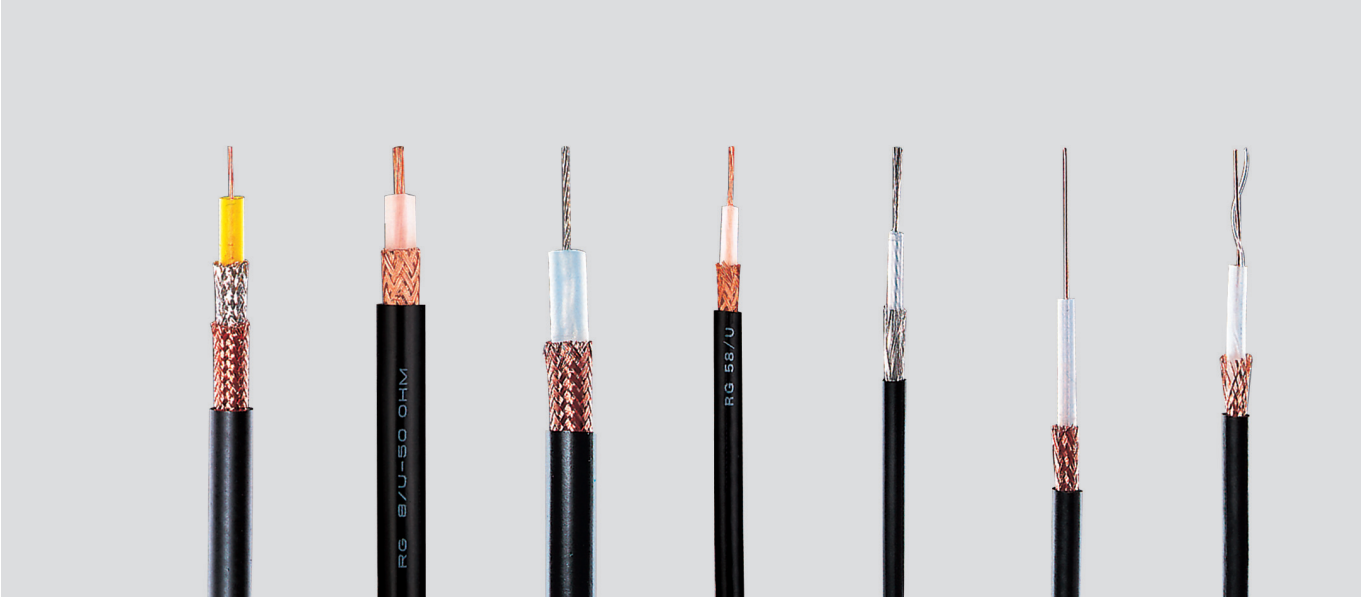
RG-Coaxial cables



RG-Type . . . /U	6	8	11	58	058	59	062
Part No.	40001	40013	40002	40014	40003	40004	40005
Cable structure							
Inner conductor ∅ mm	StCu-bare 1 x 0,72	Cu-bare 7 x 0,72	Cu-tinned 7 x 0,4	Cu-bare 16 x 0,20	Cu-tinned 19 x 0,18	StCu-bare 1 x 0,6	StCu-bare 1 x 0,65
Insulation ∅ mm	PE 4,7	PE 6,4	PE 7,3	PE 2,95	PE 2,95	PE 3,7	PE-air 3,7
Outer conductor	2 braidings 2 x Cu-silverplated	braiding Cu-bare	2 braidings Cu-bare	2 braidings Cu-bare	braiding Cu-bare	2 braidings 2 x Cu-silverplated	braiding 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.

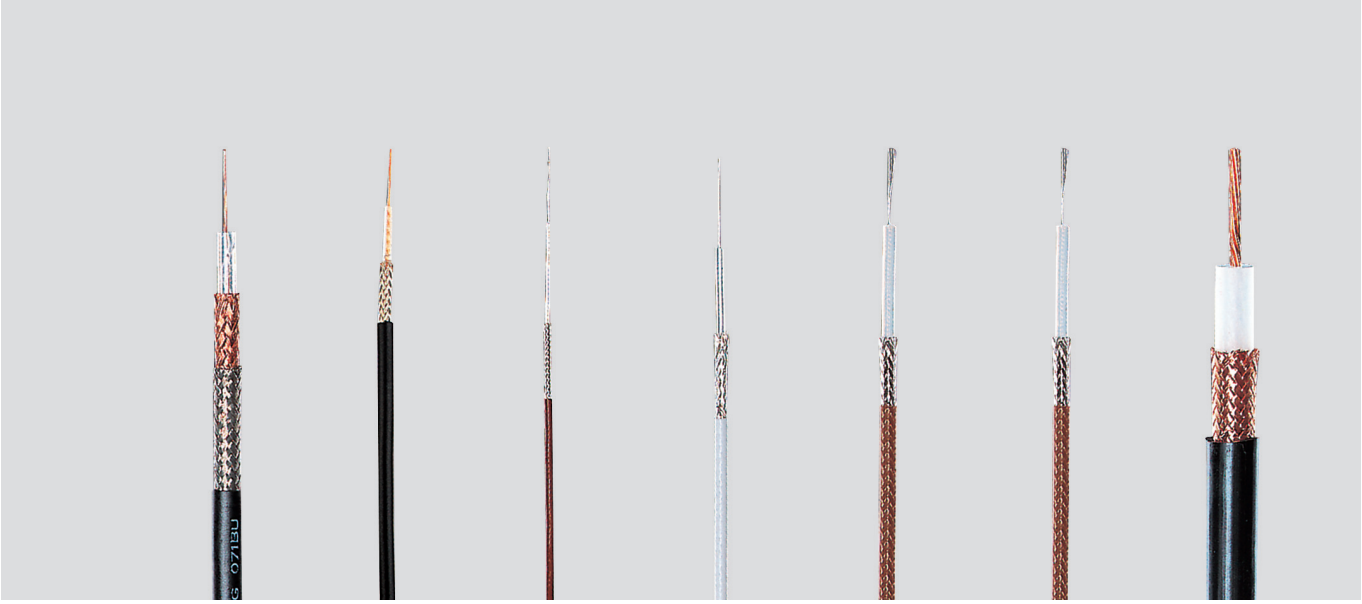
– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

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

H

RG-Coaxial cables



RG-Type . . . /U	71	174	178	179	180	187	213
Part No.	40006	40197	40007	40008	40009	40010	40012
Cable structure							
Inner conductor ∅ mm	StCu-bare 1 x 0,65	StCu-bare 7 x 0,16	StCu-silverplated 7 x 0,10	StCu-silverplated 7 x 0,10	StCu-silverplated 7 x 0,10	StCu-silverplated 7 x 0,10	StCu-bare 7 x 0,75
Insulation ∅ mm	PE-air 3,7	PE 1,52	PTFE 0,86	PTFE 1,60	PTFE 2,60	PTFE 1,60	PE 7,24
Outer conductor	2 braidings 1. Cu-bare 2. Cu-tinned	braiding Cu-tinned	braiding Cu-silverplated	braiding Cu-silverplated	braiding Cu-silverplated	braiding Cu-silverplated	braiding Cu-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 bis +200	−55 to +200	−55 to +200	−35 to +80
Cu weight kg/km	48,0	7,0	6,4	7,3	11,0	8,5	79,0
Approx. outer ∅ mm	6,2	2,8	1,80	2,54	3,70	2,65	10,3
Approx. weight kg/km	62	11	8	16,5	28	17	159
Electrical characteristics							
Impedance (Ohm)	**93 ± 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	0,70	0,70	0,70	0,70	0,66
Attenuation at 20°C (dB/100 m)							
100 MHz	10,5	30,0	43,0	28,0	20,0	28,0	7,0
200 MHz	15,0	45,0	62,0	41,0	33,0	41,0	10,2
500 MHz	24,5	73,0	102,0	69,0		69,0	17,0
800 MHz	32,5	93,0	134,0	92,0		92,0	23,0
Approx. 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	3,0	2,0	2,0	2,0	2,0	2,0	10

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

* Colour outer jacket black or transparent as per production outlet.
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

RG-Coaxial cables

RG-Type . . . /U	214	215	216	217	218	223	316
Part No.	40011	40198	40199	40200	40201	40202	40203
Cable structure							
Inner conductor	Cu-silverplated	Cu-bare	Cu-tinned	Cu-bare	Cu-bare	Cu-silverplated	StCu-silverplated
∅ mm	7 x 0,75	7 x 0,75	7 x 0,40	2,70	4,95	0,90	7 x 0,17
Insulation	PE	PE	PE	PE	PE	PE	PTFE*
∅ mm	7,24	7,24	7,24	9,4	17,30	2,95	1,52
Outer conductor	2 braidings 2 x Cu-silverplated	braiding Cu-bare	2 braidings Cu-bare	2 braidings Cu-bare	braiding Cu-bare	2 braidings 2 x Cu-silverplated	braiding Cu-silverplated
Outer jacket	PVC	PVC	PVC	PVC	PVC	PVC	PTFE/alt. FEP
Min. bending radius approx. mm	50	70	50	70	110	25	15
Temperature range °C	–35 to +80	–35 to +80	–35 to +80	–35 to +80	–35 to +80	–35 to +80	–55 to +200
Cu weight kg/km	119,0	148,0	107,0	187,0	348,0	42,0	8,5
Approx. outer ∅ ca. mm	10,8	10,3	10,8	13,84	22,1	5,38	2,5
Approx. weight kg/km	198	300	176	300	710	60	15
Electrical characteristics							
Impedance (Ohm)	**50 ± 2**	**50 ± 2**	**75 ± 3**	**50 ± 2**	**50 ± 2**	**50 ± 2**	**50 ± 2**
Frequency range f (max) GHz	11	3	3	3	3	3	3
Propagation velocity v/c	0,66	0,66	0,66	0,66	0,66	0,66	0,66
Attenuation at 20°C (dB/100 m)							
100 MHz	7,0	7,0	7,5	4,8	2,9	17,0	28,0
200 MHz	10,2	10,2	11,0	7,1	4,5	23,0	40,0
500 MHz	17,0	17,0	18,5	12,3	8,1	38,0	68,0
800 MHz	23,0	23,0	24,0	16,8	11,2	50,0	90,0
Approx. capacitance pF/m	101	101	67	101	101	101	95
Rel. velocity of propagation %	67	100	100	100	100	67	70
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)	10,5	10	21	5,5	2,2	36	310
Nominal peak voltage kVs	5,2	5	5	7	11	1,9	1,2
Dielectric strength 50 Hz kVeff	10	10	10	10	15	5	2

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

* Colour outer jacket black or transparent as per production outlet.
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.

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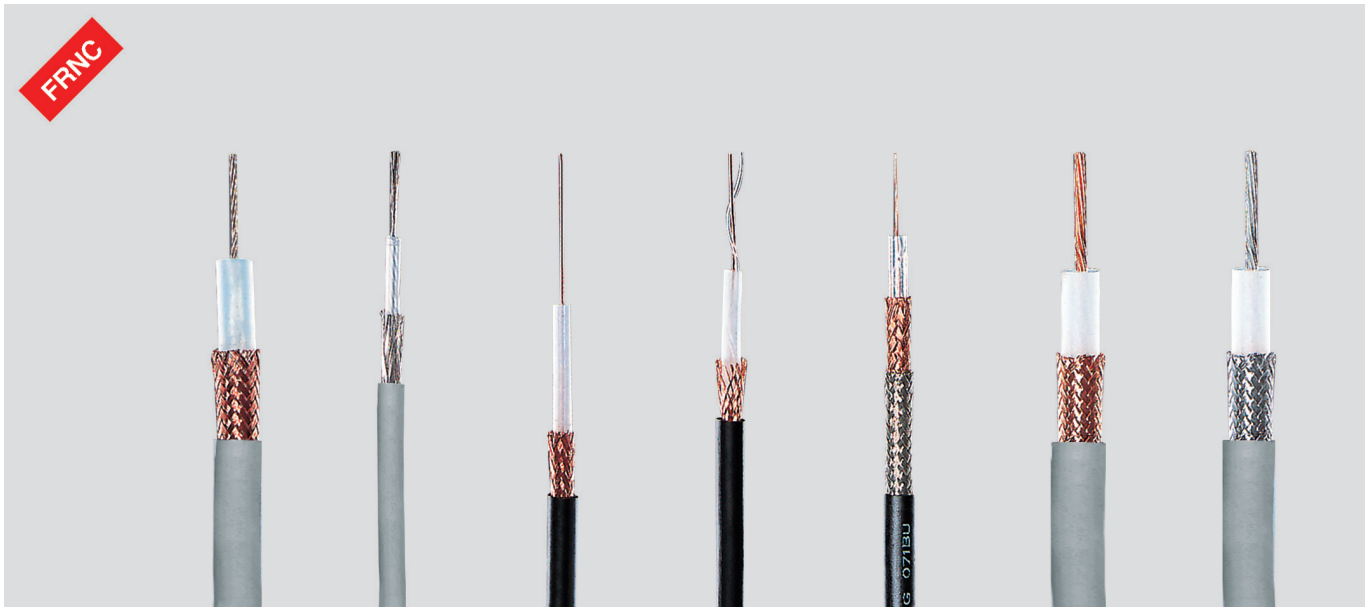
U = Utility

H

Halogen-free RG-Coaxial cables



RG-Type-H . . . /U	11	058	59	62	71	213	214
Part No.	40190	40191	40192	40193	40194	40195	40196
Cable structure							
Inner conductor ∅ mm	Cu-tinned 7 x 0,4	Cu-tinned 19 x 0,18	StCu-bare 1 x 0,6	StCu-bare 1 x 0,65	StCu-bare 1 x 0,65	Cu-bare 7 x 0,75	Cu-silverplated 7 x 0,75
Insulation ∅ mm	PE 7,3	PE 2,95	PE 3,7	PE-hohl 3,7	PE-hohl 3,7	PE 7,24	PE 7,24
Outer conductor	braiding Cu-bare	braiding Cu-tinned	braiding Cu-bare	braiding Cu-bare	2 braidings 1. Cu-bare 2. Cu-tinned	braiding Cu-bare	2 braidings 2 x Cu-silverplated
H-outer jacket*	H	H	H	H	H	H	H
Min. bending radius approx. 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 ∅ 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	203
Electrical characteristics							
Impedance (Ohm)	**75 ± 3**	**50 ± 2**	**75 ± 3**	**93 ± 5**	**93 ± 3**	**50 ± 2**	**50 ± 2**
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/100 m)							
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		68	42,5	42,5	101	101
Rel. velocity of propagation %	67	67	67	43	43	101	101
Insulation resistance MOhm x km min.	10^5	10^5	10^5	10^5	10^5	10^5	10^5
Loop resistance max. (Ohm/km)	23	53	171	13	136	10	10,5
Nominal peak voltage kVs	5,0	1,9	2,3	0,75	0,75	5,0	5,0
Dielectric strength 50 Hz kVeff	10	5,0	7,0	3,0	3,0	10	10

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

– The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

* Halogen-free material (HM2).
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.