

RG STANDARD SERIES

50, 75, 93 OHMS

SYTRONIC RG coaxial cables are manufactured in the style of MIL-C-17. Because of the used high class materials and construction very robust products will be developed. There are cables for various applications.

We only list the most marketable variants. Other RG-Types are possible. Please ask for.



**In the style of
MIL-C-17**

**RoHS/ REACH-
konform**

Errors or subsequent changes of construction are not barred.

RG - STANDARD SERIES

Massive copper

RoHS / REACH
KONFORM

In the style of
MIL-C-17



	RG 174 A/U	RG 58 C/U	RG 8/U	RG 213/U
Construction	Mini		Similar to RG 213 UBX	
Inner conductor	7x0.16mm copperwel.	19x0.18mm copper ti.	7x0.70mm copper bar	7x0.75mm copper bar
Insulation	1.54 mm PE	2.95 mm PE	6.40 mm PE	7.30 mm PE
Outer Conductor				
a)	copper braid tinned	copper braid tinned	copper braid bare	copper braid bare
b)				
c)				
Jacket +/- 0,2 mm	2.8 mm PVC	4.95 mm PVC	9.5 mm PVC	10.3 mm PVC
Electrical properties				
Characteristic impedance (Ω)	50 +/-3	50 +/-3	50 +/- 3	50 +/-3
Capacity (pF/m)	103	103	103	103
Velocity (v/c)	0,66	0,66	0,66	0,66
Attenuation at 20°C (dB 100m)				
1 MHz				
5 MHz				
10 MHz	9,6	4,7	2,0	1,8
20 MHz	13,7	7,2	3,0	2,8
50 MHz	21,8	10,7	4,8	4,4
100 MHz	31,1	15,3	7,8	6,8
200 MHz	44,5	22,8	10,6	9,7
300 MHz	50,3	28,3	13,4	12,3
500 MHz	72,7	37,0	17,2	16,2
800 MHz	91,3	48,8	24,0	21,5
1000 MHz	106,1	55,5	27,5	24,5
1500 MHz				
2250 MHz				
3000 MHz				
Shield dampening (dB)	>	>	>	>
DC resistance (Ohm/km)				
Inner conductor	306	36,0	6,0	5,5
Outer conductor	54	17,0	6,0	4,5
Operating voltage (max. V)				
In the style of:	MIL-C-17	MIL-C-17	MIL-C-17	MIL-C-17
Mechanical properties				
Minimum bending radius (mm)	15	25	50	50
Temperature range	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°
Cable weight (kg/km)	+/- 12	+/- 35	+/- 127	+/-154
Copper weight (kg/km)	+/- 6,2	+/- 18	+/- 54,8	+/- 82
Suitable connectors				

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	RG 223 U	RG 214 U	RG 59 B/U	RG 59 B/U TWIN
Construction				
Inner conductor	0.90 mm copper silver	7x0.75mm copper silv	0,584mm copperweld	0,584mm copperweld
Insulation	2.95 mm PE	7.25 mm PE	3,7 mm PE	3,7 mm PE
Outer Conductor				
a)	Copper braid silvered	Copper braid silvered	Copper braid bare	Copper braid bare
b)	Copper braid silvered	Copper braid silvered		
c)				
Jacket +/- 0,2 mm	5.2 mm PVC	10.8 mm PVC	6.1 mm PVC	12,6 x 6.1 mm PVC
Electrical properties				
Characteristic impedance (Ω)	50 +/-3	50 +/-3 %	75 +/- 3 %	75 +/- 3 %
Capacity (pF/m)	103	103	67	67
Velocity (v/c)	0,66	0,66	0,66	0,66
Attenuation at 20°C (dB 100m)				
1 MHz			1,2	1,2
5 MHz			2,6	2,6
10 MHz	4,0		3,3	3,3
20 MHz	5,8		4,7	4,7
50 MHz	9,4	4,7	7,5	7,5
100 MHz	13,7	7,2	11,1	11,1
200 MHz	19,8	10,5	16,8	16,8
300 MHz	20,5	12,9	21,9	21,9
500 MHz	22,3	18,5	27,0	27,0
800 MHz	42,8	22,9	35,1	35,1
1000 MHz	50,1	26,1	39,2	39,2
1500 MHz				
2250 MHz				
3000 MHz				
Shield dampening (dB) bis 1 GHz	> 75 dB	> 75 dB	> 75 dB	> 75 dB
DC resistance (Ohm/km)				
Inner conductor	27,0	5,5	311	311
Outer conductor	9	4,4	9	9
Operating voltage (max. V)				
In the style of:	MIL-C-17	MIL-C-17		
Mechanical properties				
Minimum bending radius (mm)	25	50	30	30
Temperature range	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°
Cable weight (kg/km)	+/- 60	+/- 205	+/- 51	+/- 102
Copper weight (kg/km)	+/- 33,7	+/- 118	+/- 23	+/- 46
Suitable connectors				

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Massive copper

RoHS / REACH
KONFORM

In the style of
MIL-C-17



	RG 6 A/U	RG 11 A/U	RG 62 A/U	RG 71 B/U
Construction				
Inner conductor	0.72 mm Copperweld	7x0.40mm Copper bar	0.64 mm Copperweld	0.64 mm Copperweld
Insulation	4.7 mm PE	7.3 mm PE	3.7 mm PE hole	3.7 mm PE hole
Outer Conductor				
a)	Copper braid bare	Copper braid bare	Copper braid bare	Copper braid bare
b)	Copper braid silver			Copper braid tinned
c)				
Jacket +/- 0,2 mm	8.5 mm PVC	10.2 mm PVC	6.2 mm PVC	6,2 mm PVC
Electrical properties				
Characteristic impedance (Ω)	75 +/-3	75 +/-3 %	93 +/- 5 %	93 +/-3
Capacity (pF/m)	67	67	44	44
Velocity (v/c)	0,66	0,66	0,84	0,84
Attenuation at 20°C (dB 100m)				
1 MHz				
5 MHz				
10 MHz		2,3		
20 MHz		3,3		
50 MHz	5,9	5,3	5,8	5,8
100 MHz	8,6	7,7	8,2	8,1
200 MHz	12,7	11,2	11,9	11,7
300 MHz	15,5	16,4	14,8	14,3
500 MHz	17,2	18,5	19,2	18,7
800 MHz	26,7	24,3	24,9	24,4
1000 MHz	30,8	27,2	28,1	27,3
1500 MHz				
2250 MHz				
3000 MHz				
Shield dampening (dB) bis 1 GHz	> 70 dB	> 70 dB	> 55 dB	> 70 dB
DC resistance (Ohm/km)				
Inner conductor	105	19,0	130	130
Outer conductor	5,0	4,0	11,0	7,0
Operating voltage (max. V)				
In the style of:	MIL-C-17	MIL-C-17	MIL-C-17	MIL-C-17
Mechanical properties				
Minimum bending radius (mm)	40	50	15	25
Temperature range	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°	-20,0 till + 70,0 C°
Cable weight (kg/km)	+/- 123	+/- 125	+/- 52	+/- 61,7
Copper weight (kg/km)	+/- 64,5	+/- 44	+/- 26	+/- 44
Suitable connectors				

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Braid massive copper

**RoHS / REACH
KONFORM**

**In the style of
MIL-C-17**

Heat proof



	RG 178 B/U	RG 316 B/U	RG 142 B/U	RG 179 B/U
Construction				
Inner conductor copperweld silvered	7x0.102mm	7x 0.17 mm	1 x 0,94 mm	7 x 0,10 mm
Insulation	0.84 mm PTFE	1.52 mm PTFE	2,95 mm PTFE	1.55 mm PTFE
Outer Conductor				
a)	Copper braid silvered	Copper braid silvered	Copper braid silvered	Copper braid silvered
b)				
c)				
Jacket +/- 0,2 mm	1,8 mm FEP brown	2,49 mm FEP brown	4,95 mm FEP brown	2,5 mm FEP brown
Electrical properties				
Characteristic impedance (Ω)	50 +/-3	50 +/-3	50 +/- 3	75 +/-3
Capacity (pF/m)	94	91	94	102
Velocity (v/c)	0,70	0,70	0,70	0,70
Attenuation at 20°C (dB 100m)				
1 MHz				3,0
5 MHz				10,0
10 MHz				12,0
20 MHz				
50 MHz	38,0	19,2		15,0
100 MHz	52,5	28,7		21,0
200 MHz	65,3			
300 MHz	81,0			41,0
500 MHz	120,7		35,2	58,0
800 MHz				78,0
1000 MHz	170,0	104,8		90,0
1500 MHz				
2250 MHz				
3000 MHz	308,0	209,2		
Shield dampening (dB) bis 1 GHz	>	>	>	>
DC resistance (Ohm/km)				
Inner conductor	784	270		784
Outer conductor	76	40		56
Operating voltage (max. V)				
In the style of:	MIL-C-17	MIL-C-17	MIL-C-17	MIL-C-17
Mechanical properties				
Minimum bending radius (mm)	10	15		10
Temperature range	-50 C° till + 200 C°	-50 C° till + 200 C°	-50 C° till + 200 C°	-50 C° till + 200 C°
Cable weight (kg/km)	+/- 9,3	+/- 18,1	+/- 83,3	+/- 15
Copper weight (kg/km)	+/- 4,7	+/- 8,8	+/- 47,0	+/- 7,8
Suitable connectors				