






# RG CABLES MIL STD

		RG 174A/U		RG58C/U		RG213/U		RG 59 B/U		RG 11/ U	
CONSTRUCTION AND ELECTRICAL DATA		Dim.	Cod. 9001	Dim.	Cod. 9002	Dim.	Cod. 9003	Dim.	Cod. 9004	Dim.	Cod. 9005
Inner conductor		7x0,16 mm FeCu		19x0,18 mm CuSn		7x0,75 mm Cu		0,58 mm FeCu		7x0,40 mm CuSn	
Dielectric		1,50 mm PE		2,95 mm PE		7,25 mm PE		3,70 mm PE		7,25 mm PE	
Screen	Tape										
	Braid	94 % CuSn		92 % CuSn		94 % Cu		92 % Cu		94 %	
	Tape										
Outer sheath		2,80 mm PVC		5,00 mm PVC		10,3 mm PVC		6,15 mm PVC		10,3 mm PVC	
Copper content	kg/km	5,8		16,7		67,0		20,1		46,3	
Cable weight	kg/km	13,8		38,0		154,8		53,0		140,5	
Min. bend. radius (single / multiple)	mm	15/30		25/30		50/100		30/60		50/100	
Max. tensile strength	N	120		90		400		200		N	
Impedance [Ω]		50 ± 2		50 ± 2		50 ± 2		75 ± 3		75 ± 3	
Capacitance [pF/m]		101 ± 2		100 ± 2		100 ± 2		66 ± 2		67 ± 2	
Velocity ratio [%]		66		66		66		66		66	
DC resistance (inner / outer) [Ω/km]		290/42		38,5/16,5		6,5/4,5		158/11		21,0/ 4,5	
Voltage insulation sheath [kV]		2		3		5		3		5	
<b>ATTENUATION (20°C)</b>											
Frequency [MHz]		dB/100m		dB/100m		dB/100m		dB/100m		dB/100m	
50		20,0		10,7		4,1		7,7		5,5	
200		42,5		23,5		9,0		16,0		10,0	
300		51,0		29,6		11,3		19,9		12,3	
470		63,0		38,7		14,8		25,4		14,6	
862		86,1		55,4		21,2		35,3		23,5	
1000		97,0		61,1		23,6		38,7		26,6	
<b>STRUCTURAL RETURN LOSS (SRL)</b>											
Frequency [MHz]		dB		dB		dB		dB		dB	
30 – 300		> 21		> 26		> 27		> 28		> 28	
300 – 600		> 19		> 25		> 26		> 25		> 25	
600 – 1000		> 18		> 24		> 24		> 23		> 23	
<b>SCREENING EFFICIENCY</b>											
Frequency [MHz]	Transfer Imp [Ti]	mΩ/m		mΩ/m		mΩ/m		mΩ/m		mΩ/m	
5 - 30											
Frequency [MHz]	Screening Att. [As]	dB		dB		dB		dB		dB	
30 – 1000		> 55		> 55		> 55		> 55		> 55	
1000 – 2000											
2000 – 3000											
<b>REFERENCE STANDARDS</b>		<b>MIL – C - 17</b>		<b>MIL – C - 17</b>		<b>MIL – C - 17</b>		<b>MIL – C - 17</b>		<b>MIL – C - 17</b>	

Cu = Copper; PE= Solid Polyethylene; CuSn = Tinned Copper; FeCu = Copper Claded Steel; PVC = Poly-Vinyl-Chloride

## RG CABLES TYPE

CONSTRUCTION AND ELECTRICAL DATA	RG 59 TYPE 46%			RG 59 TYPE 64%			RG 58 TYPE 65%			RG 58 FOAM 70%			RG 58 FOAM 92%			
	Dim.		Cod. 9006	Dim.		Cod. 9007	Dim.		Cod. 9008	Dim.		Cod. 1767	Dim.		Cod. 1768	
Inner conductor	0,58 mm	FeCu		0,58 mm	FeCu		19x0,18mm	CuSn		19x0,18mm	CuSn		19x0,18mm	CuSn		
Dielectric	3,70 mm	PE		3,70 mm	PE		2,95 mm	PE		2,65 mm	Pee		2,65 mm	Pee		
Screen	Tape										Al/Pet/Al			Al/Pet/Al		
	Braid	Cu	46 %	Cu	64 %		65 %	CuSn		70 %	CuSn		92 %	CuSn		
	Tape															
Outer sheath	6,15 mm	PVC		6,15 mm	PVC		5,00 mm	PVC		5,00 mm	PVC		5,00 mm	PVC		
Copper content	kg/km	4,7		kg/km	7,0		kg/km	10,2		kg/km	10,2		kg/km	13,6		
Cable weight	kg/km	40,5		kg/km	43,0		kg/km	33,0		kg/km	32,2		kg/km	35,8		
Min. bend. radius (single / multiple)	mm	30/60		mm	30/60		mm	25/50		mm	25/50		mm	25/50		
Max. tensile strength	N	200		N	200		N	90		N	80		N	80		
Impedance [Ω]		75 ± 3			75 ± 3			50 ± 2			50 ± 2			50 ± 2		
Capacitance [pF/m]		66 ± 2			66 ± 2			100 ± 2			84 ± 2			84 ± 2		
Velocity ratio [%]		66			66			66			80			80		
DC resistance (inner / outer) [Ω/km]		158/ 33,7			158/ 22,4			38,5/ 28,5			38,5/ 23			38,5/ 15,5		
Voltage insulation sheath [kV]		3			3			3			3			3		
<b>ATTENUATION (20°C)</b>																
Frequency [MHz]		dB/100m			dB/100m			dB/100m			dB/100m			dB/100m		
50		7,7			7,7			10,7			8,3			8,3		
200		16,0			16,0			23,5			18,3			18,3		
300		19,9			19,9			29,6			25,4			25,4		
470		25,4			25,4			38,7			29,7			29,7		
862		35,3			35,3			55,4			38,1			38,1		
1000		38,7			38,7			61,1			49,2			49,2		
<b>STRUCTURAL RETURN LOSS (SRL)</b>																
Frequency [MHz]		dB			dB			dB			dB			dB		
30 – 300		> 28			> 28			> 26			> 28			> 28		
300 – 600		> 25			> 25			> 25			> 25			> 25		
600 – 1000		> 23			> 23			> 24			> 23			> 23		
<b>SCREENING EFFICIENCY</b>																
Frequency [MHz]	Transfer Imp [Ti]		mΩ/m		mΩ/m			mΩ/m			mΩ/m			mΩ/m		
5 - 30											< 15			< 5		
Frequency [MHz]	Screening Att. [As]		dB		dB			dB			dB			dB		
30 – 1000			> 55		> 55			> 55			> 85			> 85		
1000 – 2000											> 90			> 100		
2000 – 3000											> 80			> 90		
<b>REFERENCE STANDARDS</b>		<b>MIL – C - 17</b>			<b>MIL – C - 17</b>			<b>MIL – C - 17</b>			<b>MIL – C - 17</b>			<b>MIL – C - 17</b>		

Cu = Copper; PE= Solid Polyethylene; CuSn = Tinned Copper; FeCu = Copper Claded Steel; PVC = Poly-Vinyl-Chloride; Pee = Foamed PE; Al/Pet/Al = Alluminium/Polyester/Alluminium Tape