RG CABLES MIL STD

CONSTRUCTION AND ELECTRICAL DATA		RG 174A/U Dim.		Cod. 9001	RG58C/U Dim.		Cod. 9002	RG213/U Dim.		Cod. 9003	RG 59 B/U Dim.		Cod. 9004	RG 11/ U 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		kg/km	16,7		kg/km	67,0		kg/km	20,1		kg/km	46,3	
Cable weight		kg/km	13,8		kg/km	38,0		kg/km	154,8		kg/km	53,0		kg/km	140,5	
Min. bend. radius (single / multiple)		mm	15/30		mm	25/30		mm	50/100		mm	30/60		mm	50 /100	
Max. tensile strength		N	120		N	90		N	400		N	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		





ATTENUATION (20°C																
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		
STRUCTURAL RETURN LOSS (SRL)																
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		
SCREENING EFFICIENCY																
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																
REFERENCE STANDARDS		MIL – C - 17			MIL – C - 17			MIL – C - 17			MIL – C - 17			MIL – C - 17		

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

RG CABLES TYPE

	RG 59 TYPE 46%		Cod. 9006	RG 59 TYPE 64%		Cod. 9007	RG 58 TYPE 65%		Cod. 9008	RG 58 FOAM 70%		Cod. 1767	RG 58 FOAM 92%		Cod. 1768
CONSTRUCTION AND ELECTRICAL DATA	***Dim.***			***Dim.***			***Dim.***			***Dim.***			***Dim.***		
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	
Screen – Braid	Cu	46 %		Cu	64 %		65 %	CuSn		70 %	CuSn		92%	CuSn	
Screen – 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		
ATTENUATION (20°C															
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		
STRUCTURAL RETURN LOSS (SRL)															
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		
SCREENING EFFICIENCY															
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		
REFERENCE STANDARDS	**MIL – C - 17**			**MIL – C - 17**			**MIL – C - 17**								

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

COAX 50 OHM

	HF09_2.6			RG8 FOAM			FLEXY 10.0			EU 500			EU 1000		
CONSTRUCTION AND ELECTRICAL DATA	***Dim.***		**Cod. 1769**	***Dim.***		**Cod. 1695**	***Dim.***		**Cod. 1582**	***Dim.***		**Cod. 1770**	***Dim.***		**Cod. 1771**
Inner conductor	7x0,30 mm	Cu		19x0,30mm	CuSn		7x1,04mm	Cu		2,5 mm	Cu		2,62 mm	Cu	
Dielectric	2,6 mm	Pee		4,0 mm	Pee		7,2 mm	Pee		7,0 mm	Pee		7,2 mm	Pee	
Screen Tape		Al/Pet/Al						Cu/Pet			Cu/Pet			Cu/Pet	
Screen Braid	78%	CuSn		95%	CuSn		72 %	Cu		95 %	Cu		90 %	Cu	
Screen Tape															
Outer sheath	5,0 mm	PVC		6,15 mm	PVC		10,25 mm	PVC		10,0 mm	PVC		10,3 mm	PVC	
Copper content	kg/km	15,6		kg/km	30,2		kg/km	80,0		kg/km	88,5		kg/km	88,7	
Cable weight	kg/km	36,0		kg/km	55,6		kg/km	145,0		kg/km	145,0		kg/km	149,0	
Min. bend. radius (single / multiple)	mm	25/50		mm	35/60		mm	200		mm	200		mm	200	
Max. tensile strength	N	80		N	100		N	600		N	600		N	600	
Impedance [Ω]	50 ± 3			50 ± 3			50 ± 3			50 ± 3			50 ± 3		
Capacitance [pF/m]	85 ± 2			81 ± 2			78 ± 2			82 ± 2			81 ± 2		
Velocity ratio [%]	81			85			85			85			85		
DC resistance (inner / outer) [Ω/km]	36 / 14,5			13 / 10			3,3 / 7,5			3,8 / 5,3			3,3 / 5,0		
Voltage insulation sheath [kV]	3			3			5			5			5		
ATTENUATION (20°C															
Frequency [MHz]	dB/100m			dB/100m			dB/100m			dB/100m			dB/100m		
50	8,3			7,0			0,8			0,9			0,8		
200	17,0			14,6			2,8			2,9			2,8		
300	24,6			18,4			5,8			6,0			5,7		
470	28,0			23,5			9,0			9,3			9,1		
862	36,5			33,0			12,6			13,1			12,9		
1000	48,2			36,0			14,2			14,6			14,0		
1750	---			---			19,6			20,3			19,5		
2400	---			---			23,6			24,6			23,6		
STRUCTURAL RETURN LOSS (SRL)															
Frequency [MHz]	dB			dB			dB			dB			dB		
30 – 300	> 26			> 26			> 26			> 26			> 26		
300 – 600	> 18			> 18			> 18			> 25			> 25		
600 – 1000	> 16			> 16			> 16			> 18			> 18		
SCREENING EFFICIENCY															
Frequency [MHz] Transfer Imp [Ti]	mΩ/m			mΩ/m			mΩ/m			mΩ/m			mΩ/m		
5 - 30	< 5			---			< 5			< 2,5			< 2,5		
Frequency [MHz] Screening Att. [As]	dB			dB			dB			dB			dB		
30 – 1000	> 85			> 55			> 85			> 100			> 100		
1000 – 2000	---			---			> 90			> 110			> 110		
2000 – 3000	---			---			> 80			> 95			> 95		
REFERENCE STANDARDS															

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