Coax Cable Line Loss Form CC1

MECO Training

		50 Ω Cables						75Ω Cables			
PHYSICAL	**Unit**	**RG58U**	**RG8X**	**RG8U**	**RG213**	**LMR240**	**LMR400**	**RG6**	**RG11**	**RG59**	**Unit**
Nominal O.D	Inch	0.19”	0.25”	0.4	0.4	0.25	0.4	0.19	0.28	0.15	Inch
Nominal O.D	mm	4.7	6.35	10	10	6.35	10	4.7	7.2	3.7	mm
Internal Core	AWG	20	16	13	13	15	9	18	14	20	AWG
Internal Core	mm^2	0.6	1.1	2.6	2.6	1.6	6.6	0.8	2.1	0.5	mm^2
Minimum Bend Radius	Inch	2.0”	2.4”	4.5”	5.0”	0.75”	1.0”	2.7”	4.0”	2.4”	Inch
Minimum Bend Radius	mm	50	60	112	125	20	25	68	101	60	mm

ELECTRICAL		**RG58U**	**RG8X**	**RG8U**	**RG213**	**LMR240**	**LMR400**	**RG6**	**RG11**	**RG59**	
Impedance	Ω	50	50	52	50	50	50	75	75	75	Ω
Velocity Factor	%	66	78	80	66	84	85	75	66	66	%

Loss per 100ft (30.5m)		**RG58U**	**RG8X**	**RG8U**	**RG213**	**LMR240**	**LMR400**	**RG6**	**RG11**	**RG59**	
50 MHz	db	3.0	2.5	1.3	1.3	1.7	0.9	1.5	0.9	2.4	db
100 MHz	db	4.0	3.7	2.2	2.2	2.5	1.3	2.1	1.2	3.4	db
160 MHz	db	5.0	4.0	2.6	2.6	3.1	1.6	X	X	X	db
200 MHz	db	6.0	5.0	3.0	3.0	3.5	1.8	3.2	1.7	5.0	db
400 MHz	db	9.0	7.0	4.5	4.5	5.0	2.5	4.5	2.4	7.4	db
700 MHz	db	13.0	9.0	5.0	5.0	6.6	3.4	5.9	3.3	10.0	db
900 MHz	db	15	11.0	6.5	6.5	7.6	3.9	6.8	3.7	11.3	db
1000 MHz	db	16.0	13.5	9.0	9.0	8.0	4.1	7.3	3.9	12.0	db
1900 MHz	db	37.0	15.2	12.1	12.0	11.2	5.8	X	X	X	db

Cable Type	Intended Frequency	Length in feet	Length ÷100	x Loss per 100’	=	Total loss (dB)
					=	
					=	
					=	
					=	
					=	
					=	
Sub Total Losses					=	
Number of Connectors				X 0.5	=	
Total Line Loss					=	

X - Where data is missing there is too much disparity between the different manufacturers, consult the cable manufacturers data for their values.