



### Material

Inner conductor	Copper tube
Insulation	Physically foamed PE
Outer conductor	Ring corrugated copper
Jacket	Flame retardant black PE
Marking	MCC-120010 RF50Z 7/8" xxM Lot nº Eca

### Dimensions

Inner conductor ( Ø mm )	9,30
Insulation ( Ø mm )	22,80
Outer conductor ( Ø mm )	25,20
Jacket ( Ø mm )	27,80
Flexibility	Flexible
Weight ( Kg/Km )	437

### Mechanical properties

Minimum bend radius, single bend ( mm )	127
Minimum bend radius, multiple bends ( mm )	254
Number of bends, minimum	15
Number of bends, typical	30
Tensile strength ( Kg )	159
Recommended maximum clamp spacing ( m )	1
Flat plate crush strength ( Kg/mm )	1,0

### Electrical properties

Nominal impedance ( Ω )	50 ± 1
Nominal capacitance ( pF/m )	73
Nominal inductance ( μH/m )	0,18
Velocity of propagation ( % )	73
DC insulation dielectric strength ( kV )	6,0
Jacket spark test voltage ( 1 min,50Hz,rms ) ( kV )	8
Insulation resistance ( MΩ•km )	> 100.000
DC resistance, inner conductor ( Ω/km )	1,77
DC resistance, outer conductor ( Ω/km )	1,93
Peak power ( KW )	91,0
Cut-off frequency ( MHz )	5.000
Screening attenuation ( VSWR/dB )	> 120
PIM ( dBc )	≥ - 160
Return loss ( 690-960 MHz ) ( VSWR/dB )	1,12 / 24,94
Return loss ( 1.700-2.200 MHz ) ( VSWR/dB )	1,15 / 23,13
Return loss ( 2.300-2.700 MHz ) ( VSWR/dB )	1,15 / 23,13
Return loss ( 3.400-3.800 MHz ) ( VSWR/dB )	1,15 / 23,13

**Attenuation**

Frequency ( MHz )	Attenuation		Power ( 20°C, KW )
	( 20°C,dB/100m )	( 20°C,dB/100ft )	
100	1,19	0,36	7,56
450	2,65	0,81	3,41
690	3,35	1,02	2,85
800	3,63	1,11	2,48
900	3,88	1,18	2,33
960	4,03	1,23	2,25
1000	4,12	1,26	2,19
1700	5,56	1,69	1,67
1800	5,75	1,75	1,57
2000	6,11	1,86	1,48
2200	6,45	1,97	1,41
2300	6,62	2,02	1,38
2400	6,79	2,07	1,34
2500	6,95	2,12	1,30
2600	7,12	2,17	1,27
2700	7,28	2,22	1,25
3000	7,76	2,37	1,16
3400	8,05	2,45	1,08
3600	8,23	2,51	1,05
3800	8,94	2,72	2,73

Attenuation values may have a tolerance of +5%

**Standards**

Installation temperature ( °C )	- 30 + 80
Operating temperature ( °C )	- 25 + 60
Storage temperature ( °C )	- 30 + 80
IEC 60332-1 (Tets flame on single cable)	Compliant
IEC 60332-3.C (Fire test on bundled cables)	Compliant
IEC 61034 (Smoke emission test)	Compliant
IEC 60754-1 (Amount of halogen acid gas)	Compliant
IEC 60754-2 (Degree of acidity of gases)	Compliant
EN50575 (CPR Cable EuroClass)	Eca
IEC 61196.1-2005 (Design and test methods)	Compliant
2011/65/EU (RoHs) 0	Compliant
UV Resistance	Compliant