hangzhou sumlo industrail co. ltd

3/8" Foam Dielectric

Model No.: SML 3/8"

Construction

Inner Conductor	Material / Construction Diameter	Copper-Clad Aluminum Wire 3.15 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Helically Corrugated Copper tube 9.53 mm
Jacket Diameter	Material Diameter	Black PE 11.20 mm

Mechanical Characteristics

Minimum Bending Radius Repeated Bending Radius	50 mm 95 mm
Operating Temperature	-60℃ ~ +85℃
Nominal Weight	135 kg / km
Max. Pulling Force	800 N

Electrical Characteristics

DC Resistance (≤ 20℃)	
Inner conductor	3.48 ohm /km
Outer Conductor	2.85 ohm /km
Insulation Resistance	10,000 Mohm/km
Dielectric Strength	DC 2500 V for 1 Min
Velocity of Propagation	88 %
Peak Power Rating	15.6 kW
Max.Operating Frequency	13,500 MHz
Characteristic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20℃) & Average Power Rating (at Ambient 40℃, Inner conductor 100℃)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	1.060	0.323	7.230
100 MHz	3.420	1.043	2.240
150 MHz	4.220	1.287	
200 MHz	4.900	1.495	1.560
300 MHz	6.060	1.848	1.260
450 MHz	7.510	2.291	1.020
800 MHz	10.200	3.111	0.748
900 MHz	10.900	3.325	
1000 MHz	11.600	3.538	0.663
1500 MHz	14.400	4.392	0.530
1800 MHz	16.000	4.880	0.479
2000 MHz	17.000	5.185	0.451
2500 MHz	19.300	5.887	0.400
3000 MHz	21.400	6.527	0.358

The attenuation may rise by 0.2% /℃ with a rising ambient temperature

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½" Foam Dielectric

Model No.: SML 1/2"

Construction

Inner Conductor	Material / Construction Diameter	Copper-Clad Aluminum Wire 4.80 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Helically Corrugated Copper tube 13.80 mm
Jacket Diameter	Material Diameter	Black PE 15.80 mm

Mechanical Characteristics

Minimum Bending Radius	70 mm
Repeated Bending Radius	125 mm
Operating Temperature	-60℃ ~ +85℃
Nominal Weight	240 kg /km
Max. Pulling Force	1130 N

Electrical Characteristics

DC Resistance (≤ 20℃)	
Inner conductor	1.48 ohm /km
Outer Conductor	1.90 ohm /km
Insulation Resistance	10,000 Mohm.km
Dielectric Strength	DC 4000 V for 1 Min
Velocity of Propagation	88 %
Peak Power Rating	40 kW
Max.Operating Frequency	8 800 MHz
Characteristic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20℃) & Average Power Rating
(at Ambient 40℃, Inner conductor 100℃)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	0.670	0.204	11.300
100 MHz	2.170	0.662	3.490
150 MHz	2.670	0.814	
200 MHz	3.100	0.946	2.440
300 MHz	3.830	1.168	1.970
450 MHz	4.750	1.449	1.590
800 MHz	6.460	1.970	1.170
900 MHz	6.870	2.095	
1000 MHz	7.280	2.220	1.040
1500 MHz	9.090	2.772	0.833
1800 MHz	10.100	3.081	0.753
2000 MHz	10.700	3.264	0.710
2500 MHz	12.100	3.691	0.627
3000 MHz	13.400	4.087	0.565

The attenuation may rise by 0.2% / ℃
with a rising ambient temperature

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5/8” Foam Dielectric

Model No.: SML 5/8"

Construction

Inner Conductor	Material / Construction Diameter	Smooth Copper Tube 7.05 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Ring Corrugated Copper tube 19.80 mm
Jacket Diameter	Material Diameter	Black PE 22.20 mm

Mechanical Characteristics

Minimum Bending Radius Repeated Bending Radius	90 mm 200 mm
Operating Temperature	-60 ℃ ~ +85 ℃
Nominal Weight	400 kg / km
Max. Pulling Force	3630 N

Electrical Characteristics

DC Resistance (≤ 20℃)	
Inner conductor	0.49 ohm / km
Outer Conductor	1.37 ohm / km
Insulation Resistance	10,000 Mohm.km
Dielectric Strength	DC 5,000 V for 1 Min
Velocity of Propagation	89 %
Peak Power Rating	62 kW
Max.Operating Frequency	6,100 MHz
Characterisitic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20˚C) & Average Power Rating (at Ambient 40˚C, Inner conductor 100˚C)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	0.48	0.15	16.70
100 MHz	1.55	0.47	5.14
150 MHz	1.92	0.59	
200 MHz	2.24	0.68	3.57
300 MHz	2.78	0.85	2.87
450 MHz	3.46	1.06	2.31
800 MHz	4.75	1.45	1.68
900 MHz	5.07	1.55	
1000 MHz	5.38	1.64	1.48
1500 MHz	6.78	2.07	1.18
1800 MHz	7.54	2.30	1.06
2000 MHz	8.02	2.45	1.00
2500 MHz	9.15	2.79	0.87
3000 MHz	10.20	3.11	0.78

The attenuation may rise by 0.2% /℃ with a rising ambient temperature

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7/8" Foam Dielectric

Model No.: SML 7/8"

Construction

Inner Conductor	Material / Construction Diameter	Smooth Copper Tube 9.05 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Ring Corrugated Copper tube 24.9 mm
Jacket Diameter	Material Diameter	Black PE 27.50 mm

Mechanical Characteristics

Minimum Bending Radius	120 mm
Repeated Bending Radius	250 mm
Operating Temperature	-60℃ ~ +85℃
Nominal Weight	530 kg / km
Max. Pulling Force	1470 N

Electrical Characteristics

DC Resistance (≤ 20℃)	
Inner conductor	1.05 ohm / km
Outer Conductor	1.18 ohm / km
Insulation Resistance	10,000 Mohm /km
Dielectric Strength	DC 6000 V for 1 Min
Velocity of Propagation	89 %
Peak Power Rating	91.0 kW
Max.Operating Frequency	6,000 MHz
Characteristic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20℃) & Average Power Rating (at Ambient 40℃, Inner conductor 100℃)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	0.37	0.11	24.60
100 MHz	1.19	0.36	7.56
150 MHz	1.47	0.45	
200 MHz	1.72	0.52	5.26
300 MHz	2.13	0.65	4.24
450 MHz	2.65	0.81	3.41
800 MHz	3.63	1.11	2.48
900 MHz	3.88	1.18	
1000 MHz	4.12	1.26	2.19
1500 MHz	5.18	1.58	1.74
1800 MHz	5.75	1.75	1.57
2000 MHz	6.11	1.86	1.48
2500 MHz	6.95	2.12	1.30
3000 MHz	7.76	2.37	1.16

The attenuation may rise by 0.2% /℃ with a rising ambient temperature

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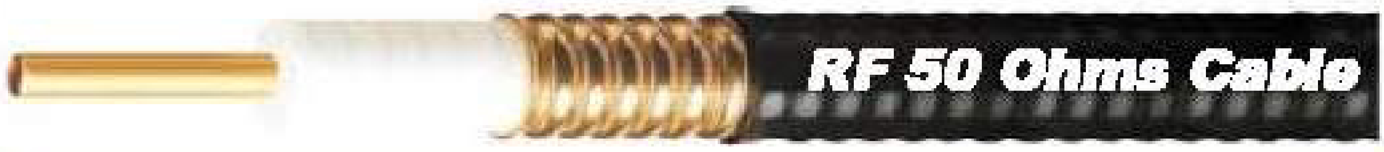

1-1/4" Foam Dielectric

Model No.: SML 1-1/4"

Construction

Inner Conductor	Material / Construction Diameter	Smooth Copper Tube 13.10 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Ring Corrugated Copper tube 35.80 mm
Jacket Diameter	Material Diameter	Black PE 39.40 mm

Mechanical Characteristics

Minimum Bending Radius Repeated Bending Radius	200 mm 380 mm
Operating Temperature	-60 ℃ ~ +85 ℃
Nominal Weight	980 kg / km
Max. Pulling Force	5900 N

Electrical Characteristics

DC Resistance (≤ 20℃) Inner conductor Outer Conductor	 0.72 ohm / km 0.62 ohm / km
Insulation Resistance	10,000 Mohm.km
Dielectric Strength	DC 9000 V for 1 Min
Velocity of Propagation	89 %
Peak Power Rating	205 kW
Max.Operating Frequency	4,000 MHz
Characterisitic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20°C) & Average Power Rating (at Ambient 40°C, Inner conductor 100°C)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	0.25	0.08	38.60
100 MHz	0.83	0.25	11.70
150 MHz	1.03	0.31	
200 MHz	1.20	0.37	8.12
300 MHz	1.50	0.46	6.52
450 MHz	1.87	0.57	5.22
800 MHz	2.59	0.79	3.78
900 MHz	2.77	0.84	
1000 MHz	2.94	0.90	3.32
1500 MHz	3.73	1.14	2.62
1800 MHz	4.16	1.27	2.35
2000 MHz	4.43	1.35	2.21
2500 MHz	5.08	1.55	1.92
3000 MHz	5.68	1.73	1.72

The attenuation may rise by 0.2% /°C with a rising ambient temperature

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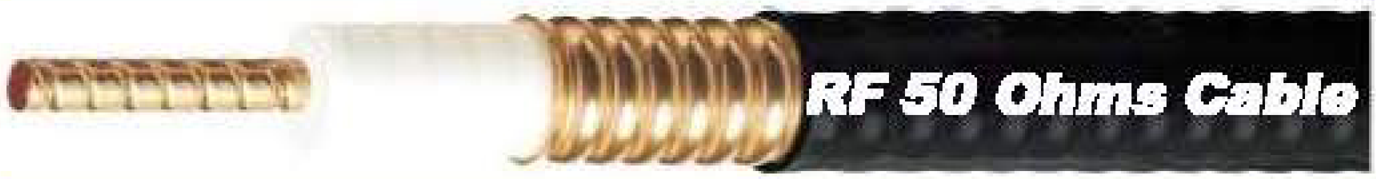

1-5/8” Foam Dielectric

Model No.: SML 1-5/8"

Construction

Inner Conductor	Material / Construction Diameter	Hellical Copper Tube 17.30 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Ring Corrugated Copper tube 46.50 mm
Jacket Diameter	Material Diameter	Black PE 50.00 mm

Mechanical Characteristics

Minimum Bending Radius	300 mm
Repeated Bending Radius	510 mm
Operating Temperature	-60 ℃ ~ +85 ℃
Nominal Weight	1310 kg / km
Max. Pulling Force	3630 N

Electrical Characteristics

DC Resistance (≤ 20℃)	
Inner conductor	0.83 ohm / km
Outer Conductor	0.52 ohm / km
Insulation Resistance	10,000 Mohm.km
Dielectric Strength	DC 11,000 V for 1 Min
Velocity of Propagation	88 %
Peak Power Rating	315 kW
Max.Operating Frequency	3,000 MHz
Characterisitic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20℃) & Average Power Rating (at Ambient 40℃, Inner conductor 100℃)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	0.20	0.06	54.30
100 MHz	0.67	0.20	16.40
150 MHz	0.83	0.25	
200 MHz	0.98	0.30	11.30
300 MHz	1.22	0.37	9.01
450 MHz	1.53	0.47	7.18
800 MHz	2.13	0.65	5.15
900 MHz	2.29	0.70	
1000 MHz	2.43	0.74	4.52
1500 MHz	3.11	0.95	3.54
1800 MHz	3.47	1.06	3.17
2000 MHz	3.71	1.13	2.96
2500 MHz	4.27	1.30	2.58
3000 MHz	-	-	-

The attenuation may rise by 0.2% /℃ with a rising ambient temperature

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¼" Super Flexible Foam Dielectric

Model No.: SML 1/4" SF

Construction

Inner Conductor	Material / Construction Diameter	Copper-Clad Aluminum Wire 1.91 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Helically Corrugated Copper tube 6.4 mm
Jacket Diameter	Material Diameter	Black PE 7.40 mm

Mechanical Characteristics

Minimum Bending Radius Repeated Bending Radius	20 mm 25 mm
Operating Temperature	-60℃ ~ +85℃
Nominal Weight	80 kg / km
Max. Pulling Force	680 N

Electrical Characteristics

DC Resistance (≤ 20℃) Inner conductor Outer Conductor	 9.8 ohm / km 6.5 ohm / km
Insulation Resistance	10,000 Mohm.km
Dielectric Strength	DC 1,600 V for 1 Min
Velocity of Propagation	84 %
Peak Power Rating	6.4 kW
Max.Operating Frequency	20,400 MHz
Characterisitic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20°C) & Average Power Rating (at Ambient 40°C, Inner conductor 100°C)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	1.83	0.56	3.97
100 MHz	5.89	1.80	1.23
150 MHz	7.25	2.21	
200 MHz	8.41	2.57	0.87
300 MHz	10.40	3.17	0.70
450 MHz	12.80	3.90	0.57
800 MHz	17.40	5.31	0.42
900 MHz	18.40	5.61	
1000 MHz	19.60	5.98	0.37
1500 MHz	24.30	7.41	0.30
1800 MHz	26.90	8.20	0.27
2000 MHz	28.50	8.69	0.26
2500 MHz	32.10	9.76	0.23
3000 MHz	35.60	10.86	0.20

The attenuation may rise by 0.2% /℃ with a rising ambient temperature

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½" Super Flexible Foam Dielectric

Model No.: SML 1/2" SF

Construction

Inner Conductor	Material / Construction Diameter	Copper-Clad Aluminum Wire 3.60 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Helically Corrugated Copper tube 12.20 mm
Jacket Diameter	Material Diameter	Black PE 13.20 mm

Mechanical Characteristics

Minimum Bending Radius Repeated Bending Radius	25 mm 30 mm
Operating Temperature	-60 ℃ ~ +85 ℃
Nominal Weight	210 kg / km
Max. Pulling Force	800 N

Electrical Characteristics

DC Resistance (≤ 20℃) Inner conductor Outer Conductor	 2.69 ohm /km 3.28 ohm /km
Insulation Resistance	10,000 Mohm/km
Dielectric Strength	DC 2500 V for 1 Min
Velocity of Propagation	84 %
Peak Power Rating	15.6 kW
Max.Operating Frequency	10,200 MHz
Characterisitic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20 ℃) & Average Power Rating (at Ambient 40℃, Inner conductor 100 ℃)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	1.04	0.32	10.10
100 MHz	3.41	1.04	3.08
150 MHz	4.21	1.28	
200 MHz	4.91	1.50	2.14
300 MHz	6.09	1.86	1.72
450 MHz	7.59	2.31	1.38
800 MHz	10.40	3.17	1.01
900 MHz	11.20	3.42	
1000 MHz	11.80	3.60	0.89
1500 MHz	14.90	4.54	0.71
1800 MHz	16.60	5.06	0.63
2000 MHz	17.60	5.37	0.60
2500 MHz	19.20	5.86	0.53
3000 MHz	22.40	6.83	0.47

The attenuation may rise by 0.2% / ℃ with a rising ambient temperature

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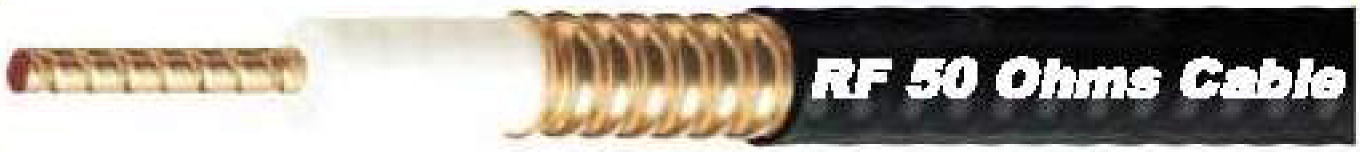

7/8" Extra Flexible Foam Dielectric

Model No.: SML 7/8"EF

Construction

Inner Conductor	Material / Construction Diameter	Helical Copper Tube 9.42 mm
Dielectric	Material / Construction	Foamed Polyethylene
Outer Conductor	Material / Construction Diameter	Ring Corrugated Copper tube 24.90 mm
Jacket Diameter	Material Diameter	Black PE 27.50 mm

Mechanical Characteristics

Minimum Bending Radius Repeated Bending Radius	80 mm 125 mm
Operating Temperature	-60℃ ~ +85℃
Nominal Weight	430 kg / km
Max. Pulling Force	1020 N

Electrical Characteristics

DC Resistance (≤ 20℃)	
Inner conductor	2.70 ohm / km
Outer Conductor	1.19 ohm / km
Insulation Resistance	10,000 Mohm/km
Dielectric Strength	DC 6000 V for 1 Min
Velocity of Propagation	88 %
Peak Power Rating	90.0 kW
Max. Operating Frequency	4,900 MHz
Characterisitic Impedance	50 +/- 1 ohm
Return loss	As specified by customer

Attenuation

Attenuation (at 20℃) & Average Power Rating
(at Ambient 40℃, Inner conductor 100℃)

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Avg. Power Rating (kW)
10 MHz	0.40	0.12	21.50
100 MHz	1.30	0.40	6.62
150 MHz	1.61	0.49	
200 MHz	1.87	0.57	4.61
300 MHz	2.32	0.71	3.72
450 MHz	2.88	0.88	2.99
800 MHz	3.94	1.20	2.19
900 MHz	4.22	1.29	
1000 MHz	4.46	1.36	1.94
1500 MHz	5.60	1.71	1.54
1800 MHz	6.21	1.89	1.39
2000 MHz	6.59	2.01	1.31
2500 MHz	7.50	2.29	1.15
3000 MHz	8.35	2.55	1.04

The attenuation may rise by 0.2% /℃ with a rising ambient temperature