CONDUMEX

1/2" (12.7mm) RF COAXIAL CABLE

68.RF.1/2

DESCRIPTION:

- Core conductor of copper coated aluminum
- Foamed polyethylene insulation with solid polyethylene internal and external layer
- Corrugated copper external conductor
- Jacket of black polyethylene

APPLICATIONS:

- Jumpers in microwave or cellular telephony systems

PROPERTIES:

- Low loss insulation
- High conductivity
- External corrugated conductor increases flexibility
- Available in specific lengths upon request, with or without connectors

MECHANICAL PROPERTIES

Core Conductor Diameter	Insulation Diameter	Diameter Over External Conductor	Overall Diameter	Minimum Bend Radius	Packaging Standard Lengths	Net Weight kg/km
4.8 mm	12.7 mm	14 mm	16 mm	125 mm	500 m	253

** Values shown are nominal, subject to manufacturing tolerances.*

SPECIFICATIONS:

MIL-C-28830

Quality System, ISO-9001.

ELECTRICAL PROPERTIES

c.d. Resistance of Core Conductor	c.d. Resistance of External Conductor	Characteristic Impedance	Stationary Wave Ratio VSWR	Propagation Speed	Capacitance	Dielectric Strength
1.48 Ω/km	1.65 Ω/km	50 ± 1Ω/km	1.2 minimum	88%	76 pF/m	4000 volts

ATTENUATION AND AVERAGE POWER

Frequency MHz	Attenuation dB/100 m	Average Power kW	Frequency MHz	Attenuation dB/100 m	Average Power kW
10	0.69	24.8	1500	9.60	0.80
50	1.58	4.80	2000	11.2	0.70
150	2.78	2.80	3000	14.3	0.55
300	4.08	1.90	4000	16.6	0.45
500	5.25	1.40	5000	19.5	0.40
800	6.79	1.15	6000	21.8	0.35
960	7.50	1.00	8000	26.0	0.30

CONDUMEX

RADIO FREQUENCY CABLES

7/8" (22.2mm) RF COAXIAL CABLE

68.RF.7/8

DESCRIPTION:

- Copper tube core conductor
- Foamed polyethylene insulation with solid polyethylene internal and external layer
- Corrugated copper external conductor
- Jacket of black polyethylene

APPLICATIONS:

- Connection of antennas in microwave or cellular telephony systems.

PROPERTIES:

- Low loss insulation
- High conductivity
- External corrugated conductor increases flexibility
- Available in specific lengths upon request

MECHANICAL PROPERTIES

Core Conductor Diameter	Insulation Diameter	Diameter Over External Conductor	Overall Diameter	Minimum Bend Radius	Packaging Standard Lengths	Net Weight kg/km
9.02 mm	22.2 mm	24.8 mm	27.6 mm	250 mm	500 m	508

** Values shown are nominal, subject to manufacturing tolerances.*

SPECIFICATIONS:

MIL-C-28830

Quality System, ISO-9001.

ELECTRICAL PROPERTIES

c.d. Resistance of Core Conductor	c.d. Resistance of External Conductor	Characteristic Impedance	Stationary Wave Ratio VSWR	Propagation Speed	Capacitance	Dielectric Strength
1.06 Ω/km	1.06 Ω/km	50 ± 1Ω/km	1.2 minimum	89%	75 pF/m	6000 volts

ATTENUATION AND AVERAGE POWER

Frequency MHz	Attenuation dB/100 m	Average Power kW	Frequency MHz	Attenuation dB/100 m	Average Power kW
10	0.37	24.6	800	3.79	3.79
50	0.85	10.7	960	4.20	2.1
150	1.50	6.0	1500	5.46	1.7
300	2.18	4.2	2000	6.47	1.4
400	2.58	3.6	3000	8.32	1.1
500	2.90	3.1	4000	9.93	0.9
700	3.51	2.6	5000	11.5	0.8

CONDUMEX

RADIO FREQUENCY CABLES

1-1/4" (31.75mm) RF COAXIAL CABLE

68.RF.1-1/4

DESCRIPTION:

- Copper tube core conductor
- Foamed polyethylene insulation with solid polyethylene internal and external layer
- Corrugated copper external conductor
- Jacket of black polyethylene

APPLICATIONS:

- Connection of antennas in microwave or cellular telephony systems.

PROPERTIES:

- Low loss insulation
- High conductivity
- External corrugated conductor increases flexibility
- Available in specific lengths upon request

MECHANICAL PROPERTIES

Core Conductor Diameter	Insulation Diameter	Diameter Over External Conductor	Overall Diameter	Minimum Bend Radius	Packaging Standard Lengths	Net Weight kg/km
13.1 mm	31.75 mm	34.7 mm	38.7 mm	380 mm	500 m	970

** Values shown are nominal, subject to manufacturing tolerances.*

SPECIFICATIONS:

MIL-C-28830

Quality System, ISO-9001.

ELECTRICAL PROPERTIES

c.d. Resistance of Core Conductor	c.d. Resistance of External Conductor	Characteristic Impedance	Stationary Wave Ratio VSWR	Propagation Speed	Capacitance	Dielectric Strength
0.71 Ω/km	0.41 Ω/km	50 ± 1Ω/km	1.2 minimum	89%	75 pF/m	10,000 volts

ATTENUATION AND AVERAGE POWER

Frequency MHz	Attenuation dB/100 m	Average Power kW	Frequency MHz	Attenuation dB/100 m	Average Power kW
10	0.28	36.9	700	2.58	3.9
50	0.63	16.1	800	2.79	3.6
108	0.94	10.8	960	3.09	3.3
150	1.12	9.1	1250	3.60	2.8
300	1.62	6.3	1500	4.02	2.5
400	1.89	5.3	2000	4.76	2.1
500	2.15	4.7	3000	6.08	1.7

CONDUMEX

RADIO FREQUENCY CABLES

1-5/8" (41.275mm) RF COAXIAL CABLE

68.RF.1-5/8

DESCRIPTION:

- Corrugated copper tube core conductor
- Foamed polyethylene insulation with solid polyethylene internal and external layer
- Corrugated copper external conductor
- Jacket of black polyethylene

APPLICATIONS:

- Connection of antennas in microwave or cellular telephony systems.

PROPERTIES:

- Low loss insulation
- High conductivity
- External corrugated conductor increases flexibility
- Available in specific lengths upon request

MECHANICAL PROPERTIES

Core Conductor Diameter	Insulation Diameter	Diameter Over External Conductor	Overall Diameter	Minimum Bend Radius	Packaging Standard Lengths	Net Weight kg/km
17.3 mm	41.3 mm	46 mm	49.5 mm	510 mm	500 m	1170

** Values shown are nominal, subject to manufacturing tolerances.*

SPECIFICATIONS:

MIL-C-28830

Quality System, ISO-9001.

ELECTRICAL PROPERTIES

c.d. Resistance of Core Conductor	c.d. Resistance of External Conductor	Characteristic Impedance	Stationary Wave Ratio VSWR	Propagation Speed	Capacitance	Dielectric Strength
0.67 Ω/km	0.32 Ω/km	50 ± 1Ω/km	1.2 minimum	88%	75 pF/m	11,000 volts

ATTENUATION AND AVERAGE POWER

Frequency MHz	Attenuation dB/100 m	Average Power kW	Frequency MHz	Attenuation dB/100 m	Average Power kW
10	0.23	51.0	800	2.35	4.8
50	0.51	22.1	960	2.62	4.3
108	0.77	14.7	1500	3.43	3.3
150	0.92	12.4	1700	3.71	3.1
300	1.34	8.4	2000	4.09	2.7
500	1.78	6.3	2300	4.47	2.5
700	2.18	5.2	2500	4.72	2.4