MIL-C-17 Standard RF Coaxial Cable

Low Loss & Ultra Low Loss Microwave Cable

ANTENNA & TEST Cable up to 26.5 GHz

Low Loss Low Density PTFE Dielectric RF Microwave Coaxial Cables

Silver Plated Copper Spiral Strip Shield RF Microwave Coaxial Cables

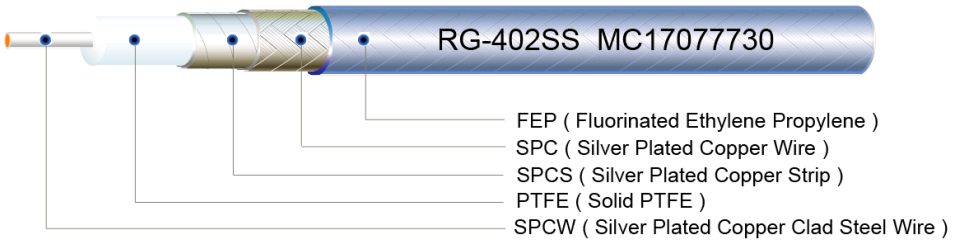
Double & Single Braid Flexible RG Coaxial Cables

Semi-Flexible SF Coaxial Cables

Semi-Rigid SR Coaxial Cables

www.MIL-C-17.com

RG-402SS (SS402 Type) *Spiral Strip Shield Microwave Cable*



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm (0.037 inch)	Solid
Dielectric	PTFE	2.97 mm (0.117 inch)	Solid
Inner Shield	SPCS	3.25 mm (0.128 inch)	Wrapping
Outer Shield	SPC	3.58 mm (0.141 inch)	Braid
Jacket	FEP	4.14 mm (0.163 inch)	Blue

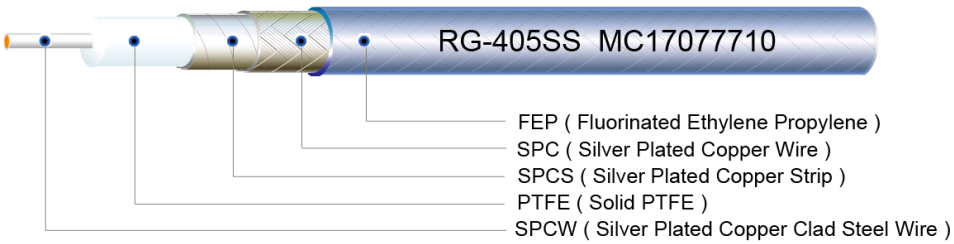
Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	96 pF/m
Operating Temperature	- 55℃ ~ 200℃
Shield Effectiveness	> -100 dB
Working Voltage	1,900 Vrms (Max.)
Weight	43.6 kg / km
Min. Bending Radius	20 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation (dB/m)	(dB/ft)
1	0.43	0.131
3	0.75	0.228
5	0.98	0.299
10	1.47	0.448
15	1.87	0.570
18	2.10	0.640

RG-405SS (SS405 Type) *Spiral Strip Shield Microwave Cable*



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.51 mm (0.0201 inch)	Solid
Dielectric	PTFE	1.63 mm (0.064 inch)	Solid
Inner Shield	SPCS	1.80 mm (0.071 inch)	Wrapping
Outer Shield	SPC	2.18 mm (0.086 inch)	Braid
Jacket	FEP	2.64 mm (0.104 inch)	Blue

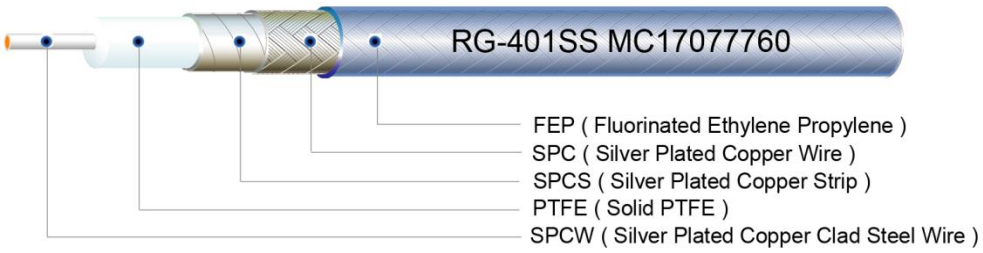
Electrical & Mechanical Data

Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	96 pF/m
Operating Temperature	- 55℃ ~ 200℃
Shield Effectiveness	> -100 dB
Working Voltage	1,500 Vrms (Max.)
Weight	19.1 kg / km
Min. Bending Radius	6 mm (Single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
1	0.75	0.229
3	1.29	0.393
5	1.71	0.521
10	2.56	0.780
15	3.22	0.981
18	3.57	1.088
20	3.80	1.158

RG-401SS (SS401 Type) *Spiral Strip Shield Microwave Cable*



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	1.63 mm (0.064 inch)	Solid
Dielectric	PTFE	5.31 mm (0.209 inch)	Solid
Inner Shield	SPCS	5.65 mm (0.222 inch)	Wrapping
Outer Shield	SPC	6.32 mm (0.249 inch)	Braid
Jacket	FEP	7.20 mm (0.283 inch)	Blue

Electrical & Mechanical Data

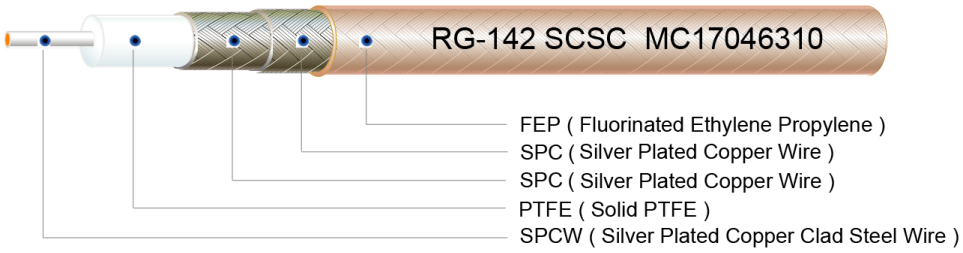
Characteristic Impedance	50 Ω
Operating Frequency	20 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	94 pF/m
Operating Temperature	- 55℃ ~ 200℃
Shield Effectiveness	> -100 dB
Working Voltage	3,000 Vrms (Max.)
Weight	140 kg / km
Min. Bending Radius	40 mm (Single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
0.5	0.15	0.046
1	0.24	0.073
3	0.45	0.137
8	0.85	0.259
10	1.00	0.305
15	1.40	0.427
20	1.65	0.503

RG-142

Flexible Coaxial Cable - Double Braid



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm (0.037 inch)	Solid
Dielectric	PTFE	2.95 mm (0.116 inch)	Solid
Inner Shield	SPC	3.60 mm (0.142 inch)	Braid
Outer Shield	SPC	4.25 mm (0.167 inch)	Braid
Jacket	FEP	4.95 mm (0.195 inch)	Light Brown

Electrical & Mechanical Data

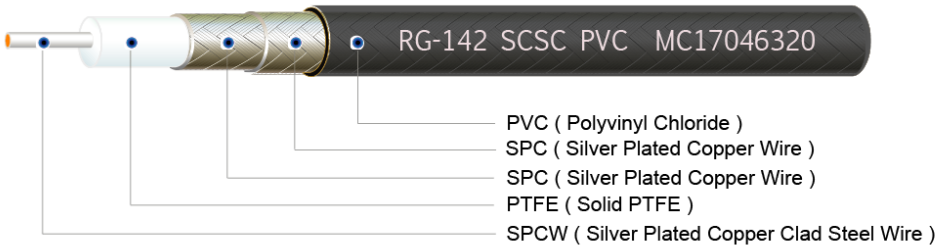
Characteristic Impedance	50 Ω
Operating Frequency	6 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	95 pF/m
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	2,500 Vrms (Max.)
Weight	64.0 kg / km
Min. Bending Radius	30 mm (Single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
0.1	0.13	0.040
0.5	0.31	0.094
1.0	0.45	0.137
3.0	0.87	0.265
5.0	1.20	0.366
6.0	1.36	0.415

RG-142 PVC Jacket

Flexible Coaxial Cable - Double Braid



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.94 mm (0.037 inch)	Solid
Dielectric	PTFE	2.95 mm (0.116 inch)	Solid
Inner Shield	SPC	3.60 mm (0.142 inch)	Braid
Outer Shield	SPC	4.25 mm (0.167 inch)	Braid
Jacket	PVC	4.95 mm (0.195 inch)	Black

Electrical & Mechanical Data

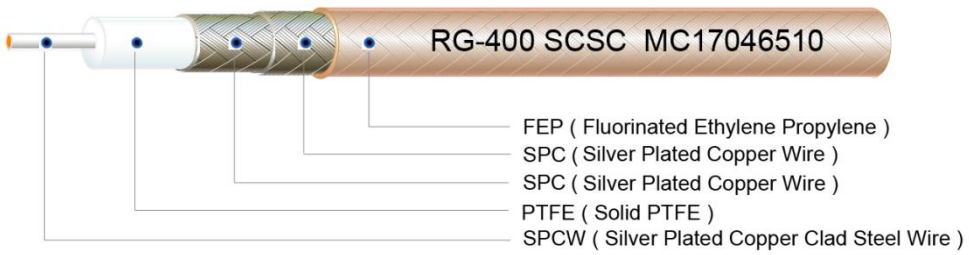
Characteristic Impedance	50 Ω
Operating Frequency	6 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	95 pF/m
Operating Temperature	- 55℃ ~ 85℃
Working Voltage	2,500 Vrms (Max.)
Weight	64.0 kg / km
Min. Bending Radius	30 mm (single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
0.1	0.13	0.040
0.5	0.31	0.094
1.0	0.45	0.137
3.0	0.87	0.265
5.0	1.20	0.366
6.0	1.36	0.415

RG-400

Flexible Coaxial Cable - Double Braid



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	1.00 mm (0.039 inch)	Stranded (19/0.203)
Dielectric	PTFE	2.95 mm (0.116 inch)	Solid
Inner Shield	SPC	3.60 mm (0.142 inch)	Braid
Outer Shield	SPC	4.20 mm (0.165 inch)	Braid
Jacket	FEP	4.95 mm (0.195 inch)	Light Brown

Electrical & Mechanical Data

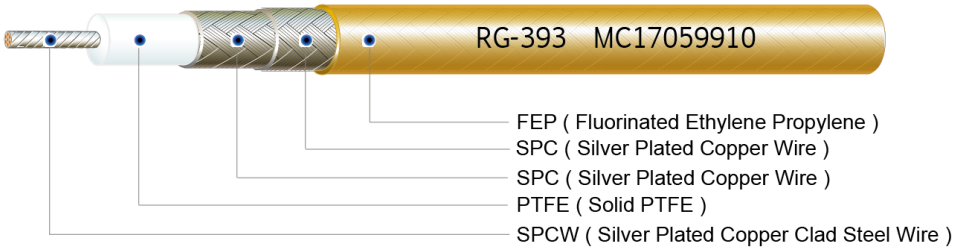
Characteristic Impedance	50 Ω
Operating Frequency	6 GHz (Max.)
Velocity of Propagation	69.5 %
Capacitance	95 pF/m
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	1,700 Vrms (Max.)
Weight	64.0 kg / km
Min. Bending Radius	30 mm (Single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
0.30	0.36	0.110
1.20	0.54	0.165
2.10	0.76	0.232
3.00	0.95	0.290
4.20	1.20	0.366
5.10	1.35	0.411
6.00	1.51	0.460

RG-393

Flexible Coaxial Cable - Double Braid



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	2.40 mm (0.094 inch)	Stranded (7/0.0.79)
Dielectric	PTFE	7.24 mm (0.285 inch)	Solid
Inner Shield	SPC	8.00 mm (0.315 inch)	Braid
Outer Shield	SPC	8.75 mm (0.344 inch)	Braid
Jacket	FEP	9.90 mm (0.390 inch)	Light Brown

Electrical & Mechanical Data

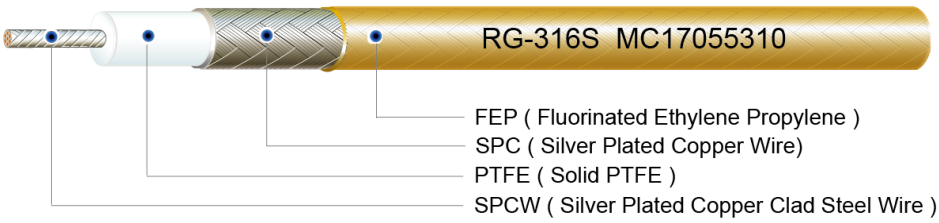
Characteristic Impedance	50 Ω
Operating Frequency	11GHz (Max.)
Velocity of Propagation	70 %
Capacitance	95 pF/M
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	7,500 Vrms (Max.)
Weight	240 kg / km
Min. Bending Radius	Static 60mm
	Repeated 100mm (Max. 50 Bendings)
	Dynamic 150mm

Attenuation

Frequency (GHz)	Max. Attenuation (dB/m)	(dB/ft)
0.05	0.06	0.018
0.10	0.08	0.024
0.40	0.16	0.049
1.00	0.29	0.088
3.00	0.59	0.180

RG-316S

Flexible Coaxial Cable



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.51 mm (0.020 inch)	Stranded (7/0.17)
Dielectric	PTFE	1.52 mm (0.060 inch)	Solid
Shield	SPC	2.00 mm (0.079 inch)	Braid
Jacket	FEP	2.50 mm (0.098 inch)	Light Brown

Electrical & Mechanical Data

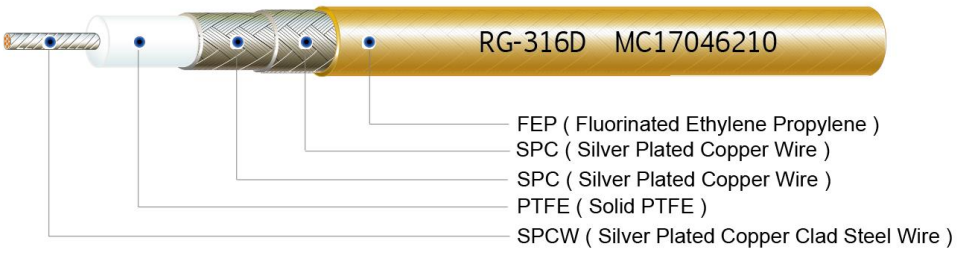
Characteristic Impedance	50 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	105 pF/m
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	900 Vrms (Max.)
Weight	16 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation (dB/m)	(dB/ft)
0.10	0.25	0.076
0.20	0.36	0.110
0.40	0.53	0.162
0.50	0.59	0.180
1.00	0.87	0.265
2.00	1.45	0.442
3.00	1.78	0.543

RG-316D

Flexible Coaxial Cable - Double Braid



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.51 mm (0.020 inch)	Stranded (7/0.17)
Dielectric	PTFE	1.52 mm (0.060 inch)	Solid
Shield	SPC	2.00 mm (0.079 inch)	Braid
Shield	SPC	2.40 mm (0.094 inch)	Braid
Jacket	FEP	2.90 mm (0.114 inch)	Light Brown

Electrical & Mechanical Data

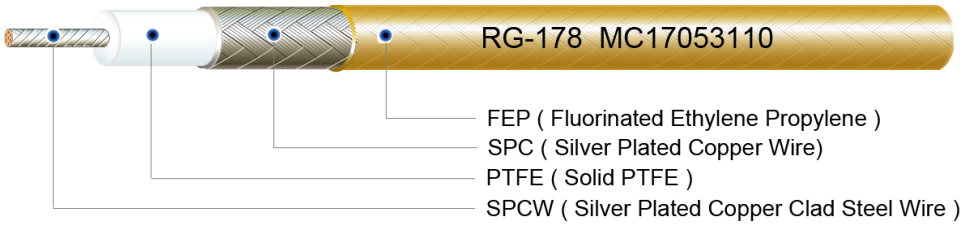
Characteristic Impedance	50 Ω
Operating Frequency	6 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	105 pF/m
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	900 Vrms (Max.)
Weight	23 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency (GHz)	Max. Attenuation (dB/m)	(dB/ft)
0.05	0.17	0.052
0.50	0.76	0.231
1.00	1.12	0.341
2.00	1.63	0.497
2.40	1.87	0.570
3.00	1.94	0.591
6.00	2.95	0.900

RG-178

Flexible Coaxial Cable



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.31 mm (0.012 inch)	Stranded (7/0.102)
Dielectric	PTFE	0.84 mm (0.033 inch)	Solid
Shield	SPC	1.33 mm (0.052 inch)	Braid
Jacket	FEP	1.80 mm (0.071 inch)	Light Brown

Electrical & Mechanical Data

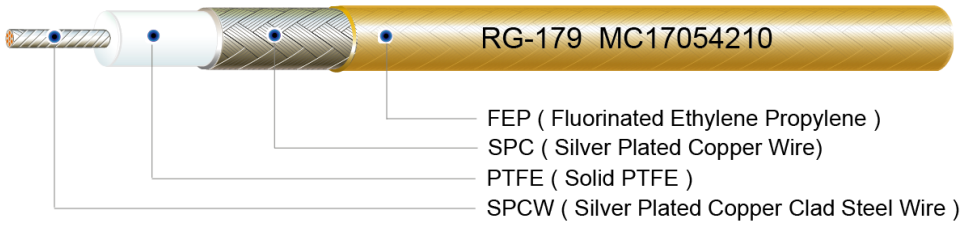
Characteristic Impedance	50 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	95 pF/m
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	900 Vrms (Max.)
Weight	8.4 kg / km
Min. Bending Radius	10 mm (Single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
0.10	0.46	0.140
0.20	0.66	0.201
0.40	0.97	0.296
0.50	1.10	0.335
1.00	1.64	0.500
2.00	2.38	0.725
3.00	2.99	0.911

RG-179 75Ω

Flexible Coaxial Cable - Double Braid



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.31 mm (0.012 inch)	Stranded (7/0.102)
Dielectric	PTFE	1.60 mm (0.063 inch)	Solid
Shield	SPC	2.00 mm (0.079 inch)	Braid
Jacket	FEP	2.54 mm (0.100 inch)	Light Brown

Electrical & Mechanical Data

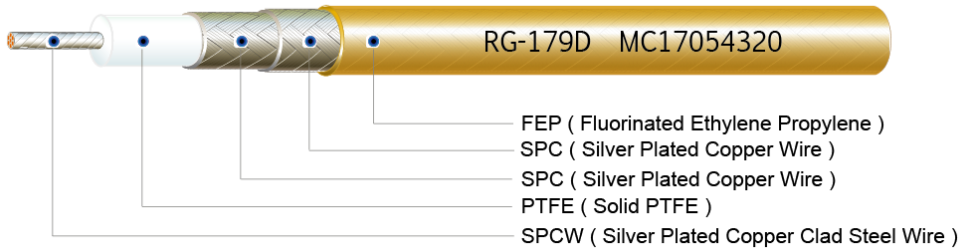
Characteristic Impedance	75 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	64 pF/m
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	900 Vrms (Max.)
Weight	14.8 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
0.05	0.19	0.058
0.10	0.27	0.082
0.40	0.56	0.171
0.50	0.63	0.192
0.80	0.81	0.247
1.00	0.92	0.280
2.00	1.42	0.433

RG-179D 75Ω

Flexible Coaxial Cable



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.31 mm (0.012 inch)	Stranded (7/0.102)
Dielectric	PTFE	1.60 mm (0.063 inch)	Solid
Inner Shield	SPC	2.00 mm (0.079 inch)	Braid
Outer Shield	SPC	2.50mm (0.098 inch)	Braid
Jacket	FEP	3.00 mm (0.120 inch)	Light Brown

Electrical & Mechanical Data

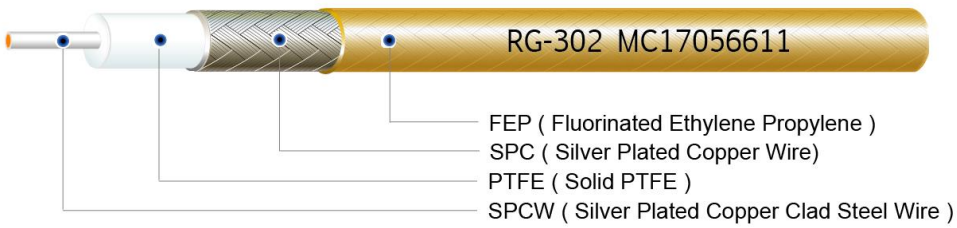
Characteristic Impedance	75 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	64 pF/m
Operating Temperature	- 55℃ ~ 200℃
Working Voltage	900 Vrms (Max.)
Weight	23.0 kg / km
Min. Bending Radius	15 mm (Single)

Attenuation

Frequency	Max. Attenuation	
(GHz)	(dB/m)	(dB/ft)
0.05	0.19	0.058
0.10	0.27	0.082
0.40	0.56	0.171
0.50	0.63	0.192
0.80	0.81	0.247
1.00	0.92	0.280
2.00	1.42	0.433

RG-302 75Ω

Flexible Coaxial Cable



Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.64 mm (0.025 inch)	Solid
Dielectric	PTFE	3.70 mm (0.146 inch)	Solid
Shield	SPC	4.29 mm (0.169 inch)	Braid
Jacket	FEP	5.15 mm (0.203 inch)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	75 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	63 pF/m
Operating Temperature	- 55℃ ~ 200℃
Max. Working Voltage	2,300 Vrms (Max.)
Weight	50 kg / km
Min. Bending radius	30 mm (Single)

Attenuation

Frequency (MHz)	Max. Attenuation (dB/m)	(dB/ft)	Average Power (Watt)
100	0.11	0.034	1300
200	0.15	0.046	919
400	0.22	0.067	650
900	0.34	0.104	433
1200	0.39	0.119	375
1500	0.44	0.134	336
1800	0.49	0.149	307
2000	0.52	0.158	291
2500	0.59	0.180	260

RG-302 75Ω HF Jacket

Flexible Coaxial Cable

Construction

Item	Material	Diameter	Remark
Center Conductor	SPCW	0.64 mm (0.025 inch)	Solid
Dielectric	PTFE	3.70 mm (0.146 inch)	Solid
Shield	SPC	4.29 mm (0.169 inch)	Braid
Jacket	HF	5.20 mm (0.205 inch)	Black

Electrical & Mechanical Data

Characteristic Impedance	75 Ω
Operating Frequency	3 GHz (Max.)
Velocity of Propagation	70 %
Capacitance	63 pF/m
Operating Temperature	- 55℃ ~ 85℃
Max. Working Voltage	2,300 Vrms (Max.)
Weight	50 kg / km
Min. Bending radius	30 mm (Single)

Attenuation

Frequency (MHz)	Max. Attenuation (dB/m)	(dB/ft)	Average Power (Watt)
100	0.11	0.034	1300
200	0.15	0.046	919
400	0.22	0.067	650
900	0.34	0.104	433
1200	0.39	0.119	375
1500	0.44	0.134	336
1800	0.49	0.149	307
2000	0.52	0.158	291
2500	0.59	0.180	260

Contact Information

COMPANY NAME	MUHAN DIGITAL Co., Ltd
ADDRESS	- HEADQUARTERS & GIMPO FACTORY # 846 Mekazone, 117 Hwanggeum-Ro, Yangchon-Eup, Gimpo-Si, Gyeonggi-Do, Korea
TEL	(82) 502-560-7000 / (82) 31-999-6910
FAX	(82) 502-560-0077 / (82) 31-999-6920
URL	http://www.MIL-C-17.com
E-Mail	info@MIL-C-17.com / MHDCable@Gmail.com
CONTACT PERSION	Mr. B. G. Park (Sales Manger & CEO)