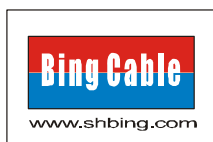


MIL-C-17 RG COAXIAL CABLE

Product Catalogue & Handbook

Type	Inner conductor	Insulation	Outer conductor	Jacket	M17 Part No.
RG141	1/0.94 SCCS	2.95 PTFE	1:SC Braid	4.83FG Braid	M17/111-RG303
RG142	1/0.94 SCCS	2.95 PTFE	2:SC Braid	4.95 FEP	M17/60-RG142
RG174	7/0.16 BC	1.52 PE	1:TC Braid	2.65 PVC	M17/119-RG174
RG178	7/0.10 SCCS	0.84 PTFE	1:SC Braid	1.80 FEP	M17/93-RG178
RG179	7/0.10 SCCS	1.60 PTFE	1:SC Braid	2.54 FEP	M17/94-RG179
RG179D	7/0.10 SCCS	1.60 PTFE	2:SC Braid	3.00 FEP	M17/94-RG179
RG187	7/0.10 SCCS	1.60 PTFE	1:SC Braid	2.54 PFA	M17/136-00001
RG188	7/0.17 SCCS	1.52 PTFE	1:SC Braid	2.49 PFA	M17/138-00001
RG196	7/0.10 SCCS	0.84 PTFE	1:SC Braid	1.80 PFA	M17/93-00001
RG214	7/0.75 SCCS	7.24 PE	2:SC Braid	10.8 PVC	M17/75-RG214
RG223	1/0.89 SCCS	2.95 PE	2:SC Braid	5.36 PVC	M17/84-RG223
RG302	1/0.64 SCCS	3.71 PTFE	1:SC Braid	5.13 FEP	M17/110-RG302
RG303	1/0.94 SCCS	2.95 PTFE	1:SC Braid	4.32 FEP	M17/111-RG303
RG316	7/0.17 SCCS	1.52 PTFE	1:SC Braid	2.49 FEP	M17/113-RG316
RG316D (RD316)	7/0.17 SCCS	1.52 PTFE	2:SC Braid	2.90 FEP	M17/113-RG316
RG393	7/0.79 SCCS	7.24 PTFE	2:SC Braid	9.91 FEP	M17/127-RG393
RG400	19/0.196 SC	2.95 PTFE	2:SC Braid	4.95 FEP	M17/128-RG400



Bing Wire & Cable Co., Ltd.

Shanghai, China

RG141



M17 Part No.: M17/111-RG303

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	1/0.94
2. Insulation	PTFE	2.95
3. Outer conductor	1 : SC	3.53
4. Jacket	FG Braid	4.83

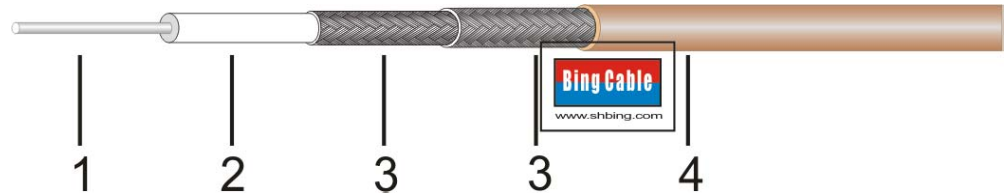
ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	25
Voltage Rating(VMS)	1900
Max. Operating Frequency(MHz)	8000
Operating Temperature Rating(°C)	-55~+250

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.125
400	0.256
1000	0.420
3000	0.781

RG142



M17 Part No.: M17/60-RG142

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	1/0.94
2. Insulation	PTFE	2.95
3. Outer conductor	2 : SC	4.11
4. Jacket	FEP	4.95

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	25
Voltage Rating(VMS)	1900
Max. Operating Frequency(MHz)	8000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≠ dB/m)
100	0.125
400	0.256
1000	0.420
3000	0.781
5000	1.050

RG174



M17 Part No.: M17/119-RG174

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	BC	7/0.16
2. Insulation	FE	1.52
3. Outer conductor	1 : SC	1.98
4. Jacket	PVC	2.80

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	101
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	66
Min. Bend Radius(Install)(mm)	10
Voltage Rating(VMS)	1500
Max. Operating Frequency(MHz)	1000
Operating Temperature Rating(°C)	-40~+80

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(> dB/m)
100	0.276
400	0.558
1000	0.899

RG178



M17 Part No.: M17/93-RG178

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.10
2. Insulation	PTFE	0.84
3. Outer conductor	1 : SC	1.30
4. Jacket	FEP	1.80

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	10
Voltage Rating(VMS)	1000
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.453
400	0.912
1000	1.457
3000	2.572

RG179



M17 Part No.: M17/94-RG179

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.10
2. Insulation	PTFE	1.60
3. Outer conductor	1 : SC	2.06
4. Jacket	FEP	2.54

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	64
Nom. Characteristic Impedance(ohm)	75
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	10
Voltage Rating(VMS)	1200
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(> dB/m)
100	0.268
400	0.549
1000	0.883

RG179D



M17 Part No.: M17/94-RG179

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.10
2. Insulation	PTFE	1.60
3. Outer conductor	2 : SC	2.50
4. Jacket	FEP	3.00

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	64
Nom. Characteristic Impedance(ohm)	75
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	12
Voltage Rating(VMS)	1200
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧dB/m)
100	0.268
400	0.549
1000	0.883

RG187



M17 Part No.: M17/136-00001

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.10
2. Insulation	PTFE	1.60
3. Outer conductor	1 : SC	2.06
4. Jacket	PFA	2.54

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	64
Nom. Characteristic Impedance(ohm)	75
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	10
Voltage Rating(VMS)	1200
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+230

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧dB/m)
100	0.268
400	0.549
1000	0.883

RG188



M17 Part No.: M17/138-00001

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.17
2. Insulation	PTFE	1.52
3. Outer conductor	1 : SC	1.98
4. Jacket	PFA	2.49

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	13
Voltage Rating(VMS)	1200
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+230

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.262
400	0.531
1000	0.856
3000	1.532

RG196



M17 Part No.: M17/93-00001

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.10
2. Insulation	PTFE	0.84
3. Outer conductor	1 : SC	1.30
4. Jacket	PFA	1.80

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	10
Voltage Rating(VMS)	1000
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+230

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.453
400	0.912
1000	1.457
3000	2.572

RG214



M17 Part No.: M17/75-RG214

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.75
2. Insulation	PE	7.24
3. Outer conductor	2 : SC	8.40
4. Jacket	PVC	10.8

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	101
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	66
Min. Bend Radius(Install)(mm)	40
Voltage Rating(VMS)	5000
Max. Operating Frequency(MHz)	11000
Operating Temperature Rating(°C)	-40~+85

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.067
400	0.141
1000	0.240
3000	0.466
5000	0.646
11000	1.109

RG223



M17 Part No.: M17/84-RG223

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	1/0.89
2. Insulation	PE	2.95
3. Outer conductor	2 : SC	4.11
4. Jacket	PVC	5.36

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	101.1
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	66
Min. Bend Radius(Install)(mm)	25
Voltage Rating(VMS)	1900
Max. Operating Frequency(MHz)	12400
Operating Temperature Rating(°C)	-40~+85

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.132
400	0.269
1000	0.440
3000	0.814
5000	1.099
11000	1.775

RG302



M17 Part No.: M17/110-RG302

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	1/0.64
2. Insulation	PTFE	3.71
3. Outer conductor	1 : SC	4.29
4. Jacket	FEP	5.13

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	69.5
Nom. Characteristic Impedance(ohm)	75
Nom. Velocity of Propagation(%)	64
Min. Bend Radius(Install)(mm)	25
Voltage Rating(VMS)	2300
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.105
400	0.217
1000	0.354
3000	0.666

RG303



M17 Part No.: M17/111-RG303

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	1/0.94
2. Insulation	PTFE	2.95
3. Outer conductor	1 : SC	3.53
4. Jacket	FEP	4.32

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	20
Voltage Rating(VMS)	1900
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧dB/m)
100	0.125
400	0.256
1000	0.420
3000	0.781

RG316



M17 Part No.: M17/113-RG316

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.17
2. Insulation	PTFE	1.52
3. Outer conductor	1 : SC	1.98
4. Jacket	FEP	2.49

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	13
Voltage Rating(VMS)	1200
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.262
400	0.531
1000	0.856
3000	1.532

RG316D



M17 Part No.: M17/113-RG316

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.17
2. Insulation	PTFE	1.52
3. Outer conductor	2 : SC	2.40
4. Jacket	FEP	2.90

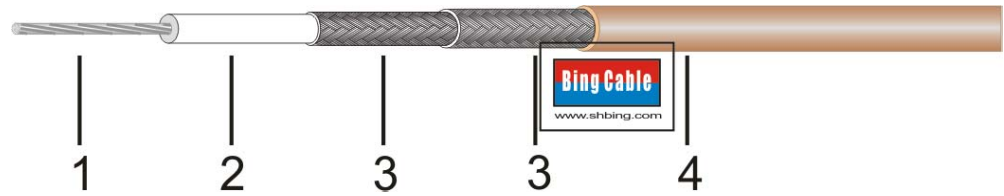
ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	15
Voltage Rating(VMS)	1200
Max. Operating Frequency(MHz)	3000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.262
400	0.531
1000	0.856
3000	1.532

RG393



M17 Part No.: M17/127-RG393

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	7/0.792
2. Insulation	PTFE	7.24
3. Outer conductor	2 : SC	8.71
4. Jacket	FEP	9.91

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	51
Voltage Rating(VMS)	2500
Max. Operating Frequency(MHz)	11000
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≠ dB/m)
100	0.066
400	0.143
1000	0.240
3000	0.470
5000	0.650

RG400



M17 Part No.: M17/128-RG400

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	19/0.196
2. Insulation	PTFE	2.95
3. Outer conductor	2 : SC	4.11
4. Jacket	FEP	4.95

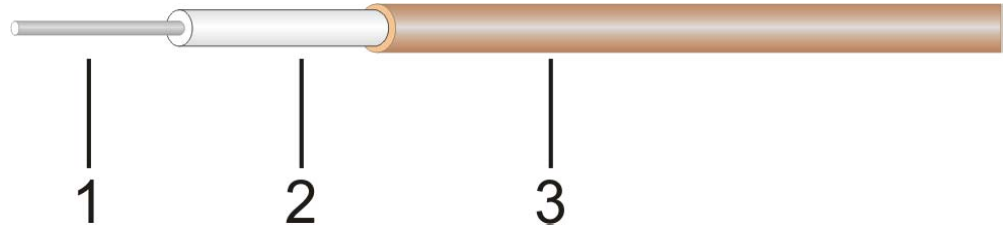
ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	96.5
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	20
Voltage Rating(VMS)	1900
Max. Operating Frequency(MHz)	12400
Operating Temperature Rating(°C)	-55~+200

Nom. Attenuation

Frequency(MHz)	Nom. Attenuation(≧ dB/m)
100	0.145
400	0.296
1000	0.483
3000	0.883
5000	1.185
11000	1.901

RG402



M17 Part No.: M17/130-RG402

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	1/0.92
2. Insulation	PTFE	2.98
3. Outer conductor	BC Tube	3.58

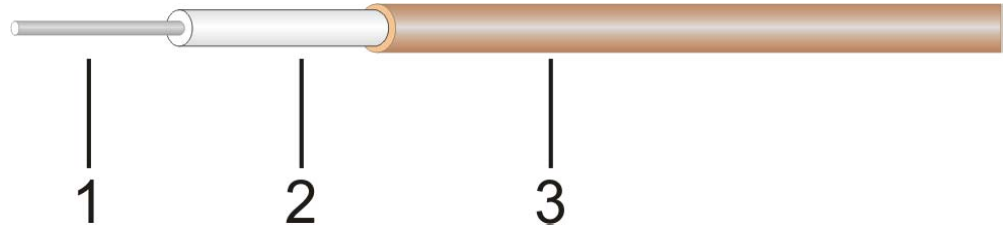
ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	94
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	12
Voltage Rating(VMS)	1900
Max. Operating Frequency(MHz)	20000
Operating Temperature Rating(°C)	-55~+150

Nom. Attenuation

Frequency(GHz)	Nom. Attenuation(≧dB/m)	Power(watts CW)
0.5	0.26	600.5
1.0	0.39	417.5
5.0	0.95	174.4
10.0	1.47	117.5
18.0	2.20	77.9

RG405



M17 Part No.: M17/130-RG402

PHYSICAL PROPERTIES

	Material	Diameter(mm)
1. Inner conductor	SCCS	1/0.51
2. Insulation	PTFE	1.68
3. Outer conductor	BC Tube	2.20

ELECTRICAL PROPERTIES

Nom. Capacitance Conductor to Shield(pF/m)	95
Nom. Characteristic Impedance(ohm)	50
Nom. Velocity of Propagation(%)	69.5
Min. Bend Radius(Install)(mm)	8
Voltage Rating(VMS)	1500
Max. Operating Frequency(MHz)	20000
Operating Temperature Rating(°C)	-55~+125

Nom. Attenuation

Frequency(GHz)	Nom. Attenuation(≧dB/m)	Power(watts CW)
0.5	0.45	232
1.0	0.64	162
5.0	1.51	69
10.0	2.22	47
20.0	3.29	32