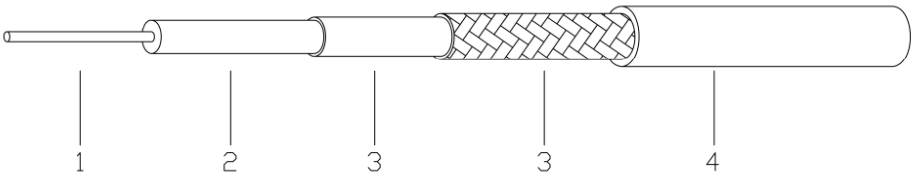
RG6 Cable

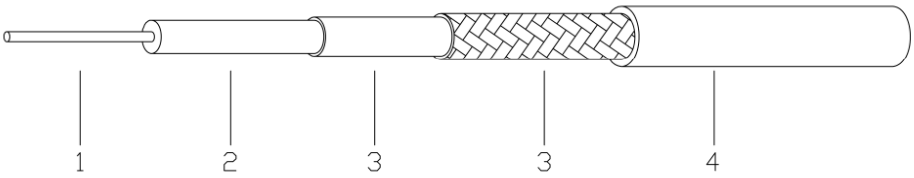


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	1.02	Bare Copper
2.Dielectric	4.57	Physical Foam Polyethylene
3. Outer Conductor	5.22	Bonded Aluminum Foil + Aluminum Braid
4.Jacket	6.91	PVC or PE

Electrical Characteristics	
Capacitance	52
Impedance	75Ohm
Velocity(%)	85%
Shielding Effectiveness(dB)	90
Max.Oper Voltage(VMS)	3000
Operating Temp.(℃)	-20 to +80/-40 to +80
VSWR≤(Return loss≥dB)	
VHF	1.2 (20)
UHF	1.2 (20)

Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Avg. Power (kw)
5	1.95	2.91
50	4.79	2.21
100	6.40	1.28
200	8.96	1.05
550	15.85	0.72
750	18.87	0.5
800	19.80	0.38
1000	21.50	0.34

RG8 Cable



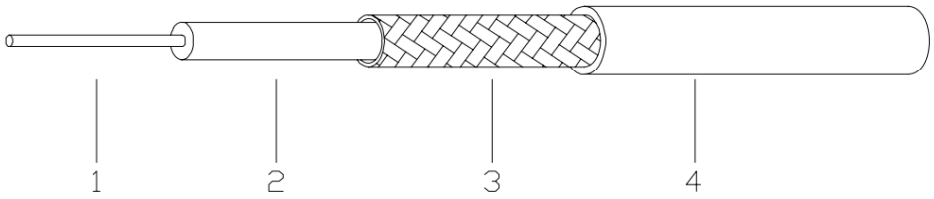
Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	2.74	Solid Copper or Copper clad Aluminum
2.Dielectric	7.24	PTFE
3. Braid	8.13	Bonded Aluminum Foil + Tinned copper braid
4.Jacket	10.29	Black PVC or PE

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	85%
Capacitance	77.1
Bent Radius (mm)	51mm
Inner Conductor DC Resistance(Ω/km)	2.92
Outer Conductor DC Resistance(Ω/km)	5.41
Shielding Effectiveness(dB)	＞90
Temperature Scope	-40 to 200℃

Mechanical Characteristics	
Storage Temp. (℃)	-25 to +70
Installation Temp. (℃)	-25 to +70
Operating Temp. (℃)	-25 to +70

Attenuation & Average Power @ 20℃ and Seal Leavel		
Frequency (MHz)	Attenuation (dB/100m)	Avg. Power (kw)
30	2.20	2.91
50	2.90	2.21
150	5.00	1.28
220	6.10	1.05
450	8.90	0.72
900	12.80	0.5
1500	16.80	0.38
1800	18.60	0.34
2000	19.60	0.33
2500	22.20	0.29
3000	24.80	0.26
5800	35.50	0.18

RG58 Cable

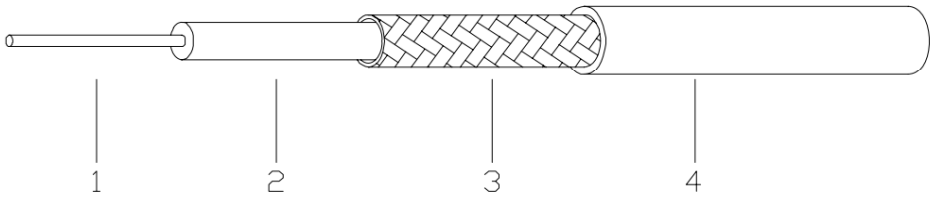


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	19X0.18	Tinned Copper
2.Dielectric	2.95	Solid Polyethylene
3. Outer Conductor	3.45	Tinned Copper Braid
4.Jacket	4.95	PVC

Electrical Characteristics	
Capacitance	101.05
Impedance	50Ohm
Velocity(%)	66%
Shielding Effectiveness(dB)	70
Max.Oper Voltage(VMS)	1900
Operating Temp.(℃)	-20 to +80

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	15.10
400	30.80
1000	50.20

RG59 Cable

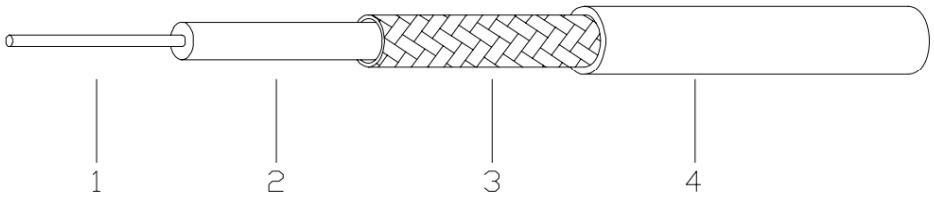


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	0.81	Bare Copper
2.Dielectric	3.66	Foam Polyethylene
3. Outer Conductor	Nom. 4.10	Bonded aluminum foil + Al-Mg alloy wire braid
4.Jacket	6.10	PVC & PE

Electrical Characteristics		
Capacitance		52
Impedance		75Ohm
Velocity(%)		85%
Shielding Effectiveness(dB)		70
Max.Oper Voltage(VMS)		3000
Operating Temp.(℃)	PVC	-25 to +70
	PE	-40 to +80

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
5	2.70
50	6.30
100	9.32
200	12.43
550	20.20
750	23.80
800	25.32
1000	27.80

RG141 Cable

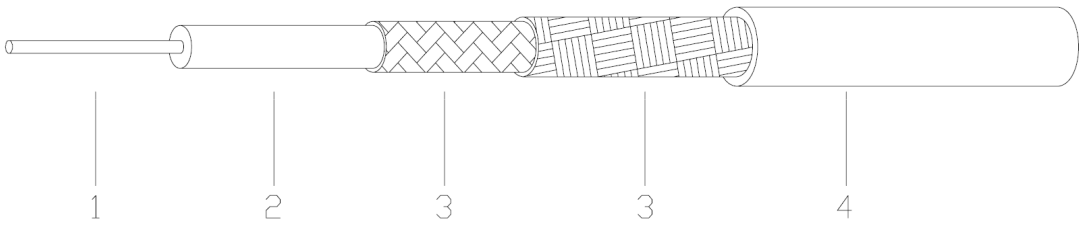


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	0.94	Silver Plated Copper Clad Steel
2.Dielectric	2.95	PTFE
3. Outer Conductor	3.45	Double Silver Plated Copper Braid
4.Jacket	4.83	FEP

Electrical Characteristics	
Capacitance	96.45
Impedance	50Ohm
Velocity(%)	70%
Bending Radius(mm)	25
Max.Oper Voltage(VMS)	1900
Max.Oper Frequency(MHz)	8000
Operating Temp.(℃)	-55 to +200

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	12.50
400	25.60
1000	42.00
3000	78.10
5000	105.00

RG142 Cable

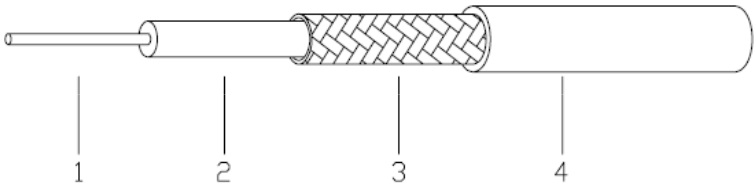


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	0.94	Silver plated Copper clad steel
2.Dielectric	3.00	PTFE
3. Braid	3.95	Double Silver plated copper braid
4.Jacket	4.95	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	70%
Capacitance	96.45
Bent Radius (mm)	25
Max. Oper Voltage (VMS)	1900
Max. Oper Frequency (MHz)	8000
Operating Temperature	-55 to 200℃

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
100	12.5
400	25.6
1000	42.0
3000	78.1
5000	105.0

RG174 Cable



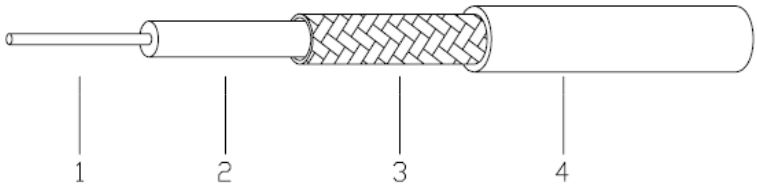
Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.16 ± 0.01mm	Bare Copper
2.Dielectric	1.52± 0.1mm	PE
3. Braid	80x0.10mm	Bare Copper Braid
4.Jacket	2.80 ± 0.1mm	Black PVC

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	66%
Capacitance	100 ± 5
Bent Radius (mm)	14mm
Max. Oper Voltage(VMS)	1500
Max. Frequency(MHz)	3000
Temperature Scope	-20 to 70℃

Mechanical Characteristics	
Storage Temp. (℃)	-20 to +70
Installation Temp. (℃)	-20 to +70
Operating Temp. (℃)	-20 to +70

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
200	39
400	58
900	90
1500	117
1800	128
2000	139
2500	156

RG178

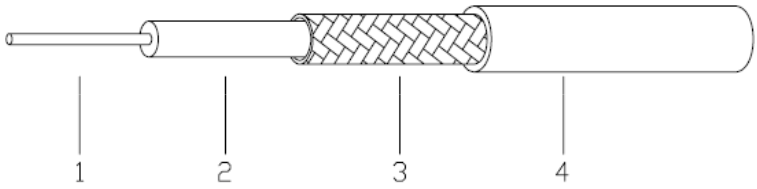


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.102 ± 0.01mm	Silver Plated Copper Clad Steel
2.Dielectric	0.86± 0.1mm	PTFE
3. Outer Conductor	1.30± 0.01mm	Silver Plated Copper Braid
4.Jacket	1.83 ± 0.1mm	FEP

Electrical Characteristics	
Capacitance	96.45 ± 5
Impedance	50Ohm
Velocity(%)	70%
Bending Radius (mm)	10mm
Max. Oper Voltage(VMS)	1000
Max. Frequency(MHz)	3000
Operating Temp(℃)	-55 to +200

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	45.3
400	91.2
1000	145.7
3000	257.2

RG178 FEP Cable

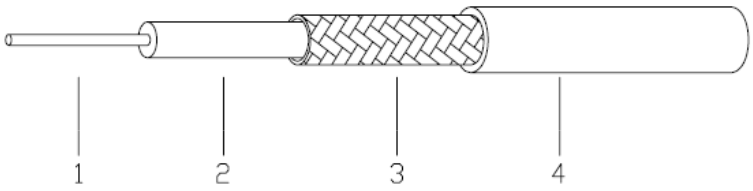


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.102 ± 0.01mm	Silver Plated Copper Clad Steel
2.Dielectric	0.86± 0.1mm	PTFE
3. Outer Conductor	1.30± 0.01mm	Silver Plated Copper Braid
4.Jacket	1.83 ± 0.1mm	FEP

Electrical Characteristics	
Capacitance	96.45 ± 5
Impedance	50Ohm
Velocity(%)	70%
Bending Radius (mm)	10mm
Max. Oper Voltage(VMS)	1000
Max. Frequency(MHz)	3000
Operating Temp(℃)	-55 to +150

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	45.3
400	91.2
1000	146.0
3000	265.0

RG179 Cable



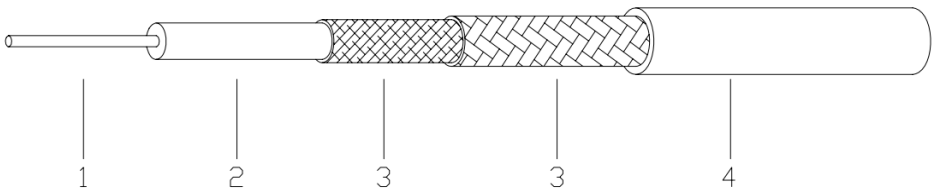
Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	7×1.02	Silver plated Copper clad steel
2.Dielectric	1.60	PTFE
3. Braid	2.04	silver plated copper Braid
4.Jacket	2.54	FEP

Electrical Characteristics	
Impedance	75Ohm
Velocity(%)	70.0%
Capacitance(PF/m)	63.65
Bent Radius (mm)	10mm
Max. Oper Voltage(VMS)	1200
Max. Frequency(MHz)	400
Temperature Scope	-55 to 200℃

Mechanical Characteristics	
Storage Temp. (℃)	-20 to +70
Installation Temp. (℃)	-20 to +70
Operating Temp. (℃)	-20 to +70

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
100	26.6
400	54.1
1000	86.9

RG179D Cable

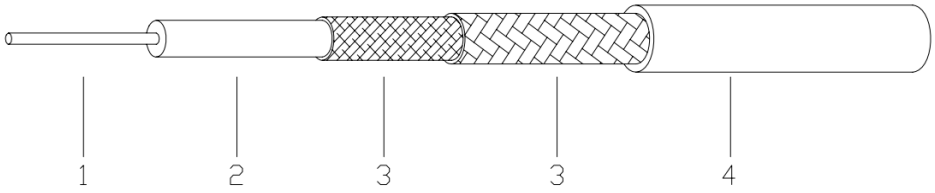


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.102	Silver Plated Copper Clad Steel
2.Dielectric	1.60	PTFE
3. Outer Conductor	2.50	Double Silver Plated Copper Braid
4.Jacket	3.00	FEP

Electrical Characteristics	
Capacitance(PF/m)	64
Impedance	75Ohm
Velocity(%)	70.0%
Bending Radius (mm)	10mm
Max. Oper Voltage(VMS)	1200
Max.Oper Frequency(MHz)	400
Operating Temp.(℃)	-55 to +150

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	26.6
400	54.1
1000	86.9

RG179D FEP Cable

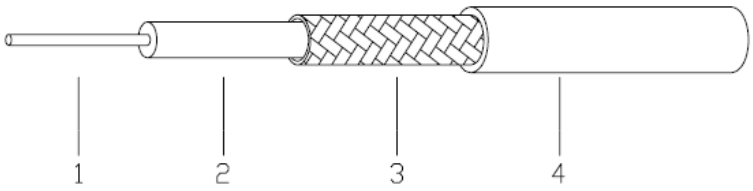


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.102	Silver Plated Copper
2.Dielectric	1.60	FEP
3. Outer Conductor	2.50	Double Silver Plated Copper Braid
4.Jacket	3.00	FEP

Electrical Characteristics	
Capacitance(PF/m)	64
Impedance	75Ohm
Velocity(%)	70.0%
Bending Radius (mm)	10mm
Max. Oper Voltage(VMS)	1200
Max.Oper Frequency(MHz)	400
Operating Temp.(℃)	-55 to +150

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	26.6
400	54.1
1000	87.5

RG179 FEP Cable

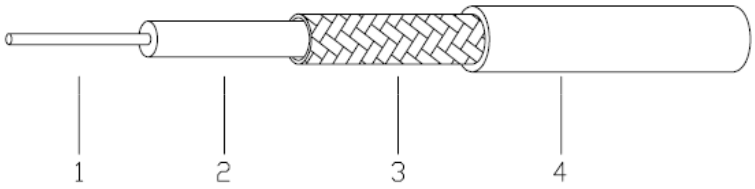


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.102	Silver plated Copper
2.Dielectric	1.60	PTFE
3.Outer Conductor	2.04	Silver Plated Copper Braid
4.Jacket	2.54	FEP

Electrical Characteristics	
Capacitance(PF/m)	63.65
Impedance	75Ohm
Velocity(%)	70.0%
Bending Radius (mm)	10mm
Max. Oper Voltage(VMS)	1200
Max. Frequency(MHz)	400
Operating Temp.(℃)	-55 to +150

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	26.6
400	54.1
1000	87.5

RG188 Cable



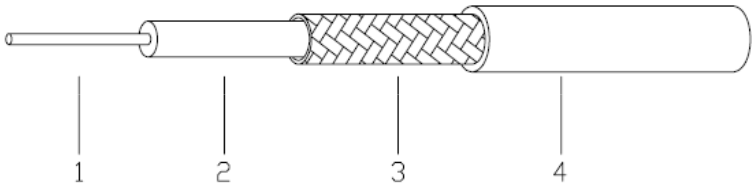
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.17 ± 0.01mm	Silver plated Copper clad steel
2.Dielectric	1.52± 0.1mm	PTFE
3. Braid	1.98	95% silver plated copper Braid
4.Jacket	2.80 ± 0.1mm	PFA

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	69.5%
Capacitance	95
Bent Radius (mm)	14mm
Max. Oper Voltage(VMS)	1500
Max. Frequency(MHz)	3000
Temperature Scope	-55 to 250℃

Mechanical Characteristics	
Storage Temp. (℃)	-20 to +70
Installation Temp. (℃)	-20 to +70
Operating Temp. (℃)	-20 to +70

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
200	39
400	58
900	90
1500	117
1800	128
2000	139
2500	156

RG196 Cable

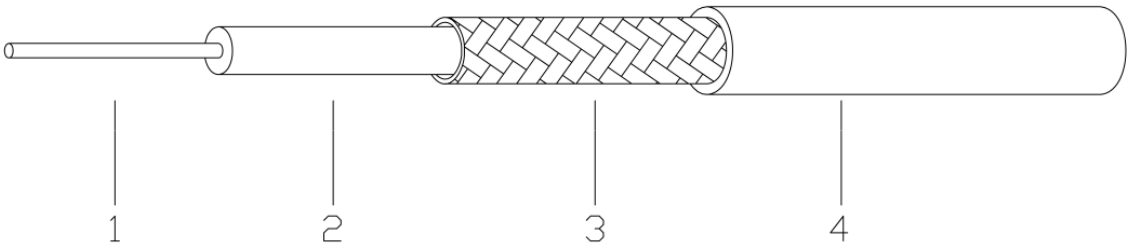


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.102 ± 0.01mm	Silver Plated Copper Clad Steel
2.Dielectric	0.86± 0.1mm	PTFE
3.Outer Conductor	1.30	Silver Plated Copper Braid
4.Jacket	1.71 ± 0.1mm	PTFE

Electrical Characteristics	
Capacitance	96.45
Impedance	50Ohm
Velocity(%)	70.0%
Bending Radius (mm)	10mm
Max. Oper Voltage(VMS)	1000
Max. Frequency(MHz)	3000
Operating Temp.(℃)	-55 to 250℃

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	45.3
400	91.2
1000	145.7
3000	257.2

RG213

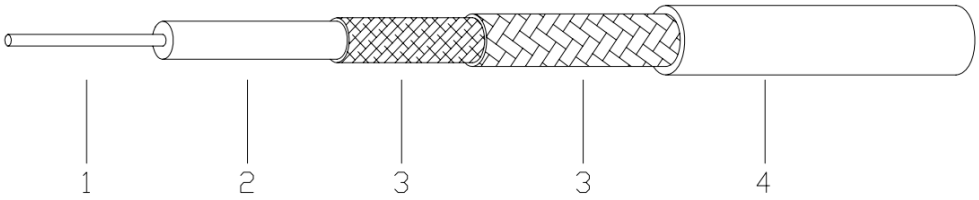


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7x0.752	Bare Copper
2.Dielectric	7.24	PTFE
3. Braid	7.85	Bare copper braid
4.Jacket	10.30	Black PVC

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	66%
Capacitance	101.05
Bent Radius (mm)	40
Max. Oper Voltage (VMS)	5000
Max. Oper Frequency (MHz)	1000
Operating Temperature	-20 to 80℃

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
100	6.60
400	14.10
1000	24.00

RG214 Cable

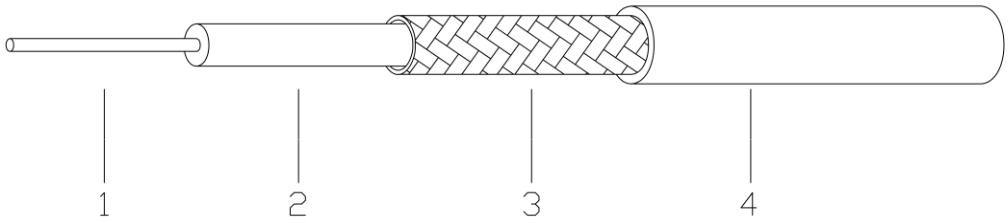


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7x0.752	Silver Plated Copper Clad Steel
2.Dielectric	7.24	Solid Polyethylene
3.Outer Conductor	8.40	Double Silver Plated Copper Braid
4.Jacket	10.80	PVC

Electrical Characteristics	
Capacitance	101.05
Impedance	50Ohm
Velocity(%)	66%
Bending Radius (mm)	40
Max. Oper Voltage (VMS)	5000
Max. Oper Frequency (MHz)	11000
Operating Temp(℃)	-20 to 80℃

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	6.60
400	14.10
1000	24.00
3000	46.6
5000	64.6
11000	110.9

RG223 Cable

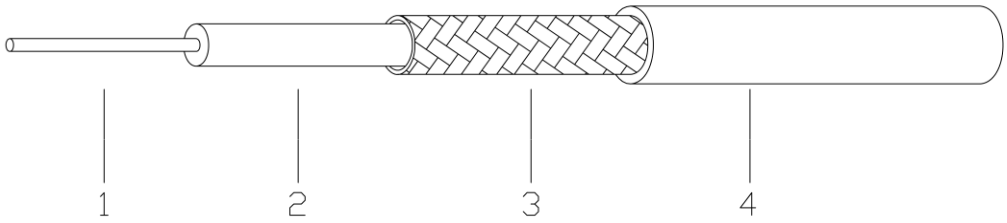


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.90	Silver plated Copper clad steel
2.Dielectric	2.95	Solid Polyethylene
3. Braid	3.95	Double Silver plated copper braid
4.Jacket	5.30	Black PVC

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	66%
Capacitance	101.05
Bent Radius (mm)	25
Max. Oper Voltage (VMS)	1900
Max. Oper Frequency (MHz)	12400
Operating Temperature	-20 to 80℃

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
100	13.1
400	26.9
1000	44.0
3000	81.4
5000	109.9
11000	177.5

RG303 Cable

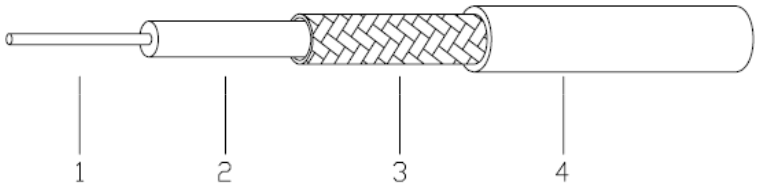


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.94	Silver plated Copper clad steel
2.Dielectric	3.00	PTFE
3.Outer Conductor	3.50	Silver plated copper braid
4.Jacket	4.32	FEP

Electrical Characteristics	
Capacitance	96.45
Impedance	50Ohm
Velocity(%)	70%
Bending Radius (mm)	20
Max. Oper Voltage (VMS)	1900
Max. Oper Frequency (MHz)	3000
Operating Temp(℃)	-55 to +200

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	12.5
400	25.6
1000	42.0
3000	78.1

RG316 Cable



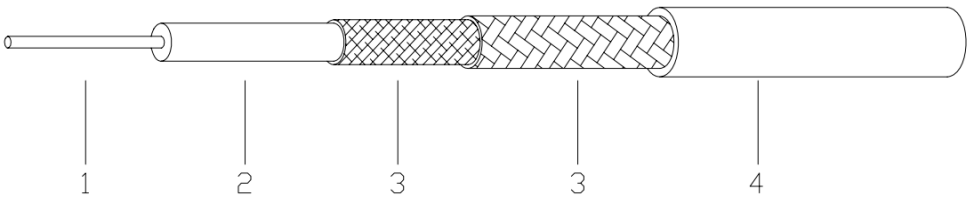
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.17 ± 0.005	Silver Plated Copper Clad Steel
2.Dielectric	1.50 ± 0.05	PTFE
3. Braid	1.95 ± 0.08	Silver Plated Copper Braid
4.Jacket	2.5 ± 0.10	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	70%
Capacitance	96.45
Bent Radius (mm)	13mm
Max. Oper Voltage(VMS)	1200
Max. Oper Frequency(MHz)	3000
Temperature Scope	-55 to 200℃

Mechanical Characteristics	
Storage Temp. (℃)	-55 to +200
Installation Temp. (℃)	-55 to +200
Operating Temp. (℃)	-55 to +200

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
100	26.20
400	53.10
1000	85.60
3000	153.20

RG316D Cable



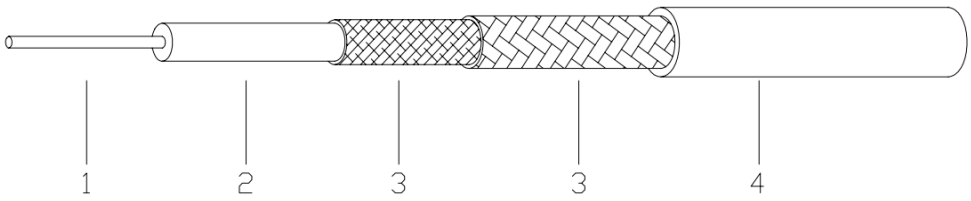
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.17 ± 0.005	Silver Plated Copper Clad Steel
2.Dielectric	1.52 ± 0.05	PTFE
3.Outer Conductor	2.40 ± 0.08	Double Silver Plated Copper Braid
4.Jacket	2.90 ± 0.10	FEP

Electrical Characteristics	
Capacitance	96.45
Impedance	50Ohm
Velocity(%)	70%
Bending Radius (mm)	15mm
Max. Oper Voltage(VMS)	1200
Max. Oper Frequency(MHz)	3000
Operating Temp(℃)	-55 to 200℃

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	26.20
400	53.10
1000	85.60
3000	153.20

RG316D FEP Cable

RoHS



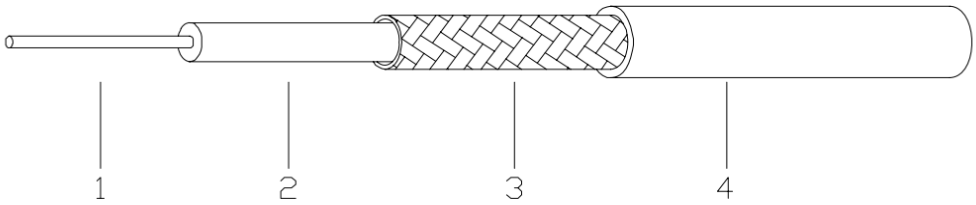
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.17 ± 0.005	Silver Plated Copper
2.Dielectric	1.52 ± 0.05	FEP
3.Outer Conductor	2.40 ± 0.08	Double Silver Plated Copper Braid
4.Jacket	2.90 ± 0.10	FEP

Electrical Characteristics	
Capacitance	96.45
Impedance	50Ohm
Velocity(%)	70%
Bending Radius (mm)	15mm
Max. Oper Voltage(VMS)	1200
Max. Oper Frequency(MHz)	3000
Operating Temp(℃)	-55 to 150℃

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	26.20
400	53.10
1000	86.00
3000	165.00

RG316 FEP Cable

RoHS

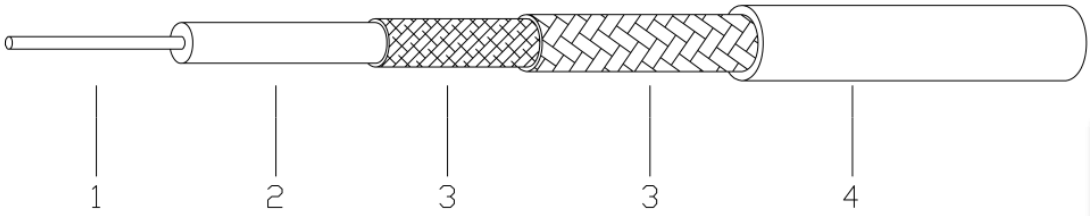


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	7×0.17 ± 0.005	Silver Plated Copper
2.Dielectric	1.52 ± 0.05	FEP
3.Outer Conductor	1.95 ± 0.08	Silver Plated Copper Braid
4.Jacket	2.50 ± 0.10	FEP

Electrical Characteristics	
Capacitance	96.45
Impedance	50Ohm
Velocity(%)	70%
Bending Radius (mm)	13mm
Max. Oper Voltage(VMS)	1200
Max. Oper Frequency(MHz)	3000
Operating Temp(℃)	-55 to 150℃

Attenuation	
Frequency (MHz)	Attenuation (dB/100m)
100	26.20
400	53.10
1000	86.00
3000	165.00

RG393 Cable

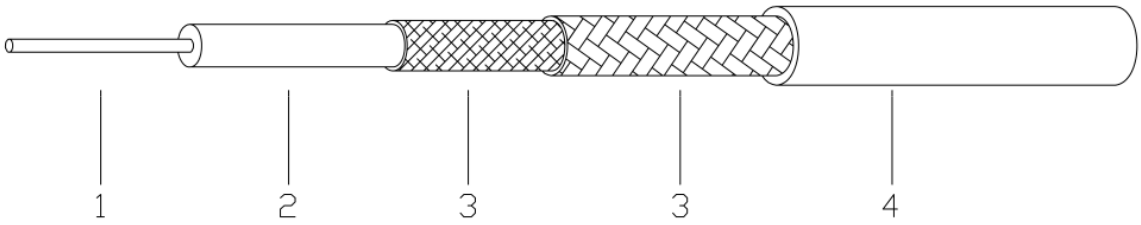


Construction Specification		
structure	Diameter(mm)	Materials
1.Inner Conductor	7x0.80	Silver Plated Copper
2.Dielectric	7.24 ± 0.10	PTFE
3. Braid	144x0.15	Silver Plated Copper
3. Braid	168x0.15	Silver Plated Copper
4.Jacket	9.90 ± 0.10	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	70%
Capacitance	97±5
Bent Radius (mm)	100mm
Max Voltage	1500VMS
Max Frequency	1000MHz
Temperature Scope	-40 to 200℃

Attenuation at 20℃	
Frequency (MHz)	Attenuation (Db/100m)
100MHz	7
200MHz	11
400MHz	15
1000MHz	24

RG400 Cable

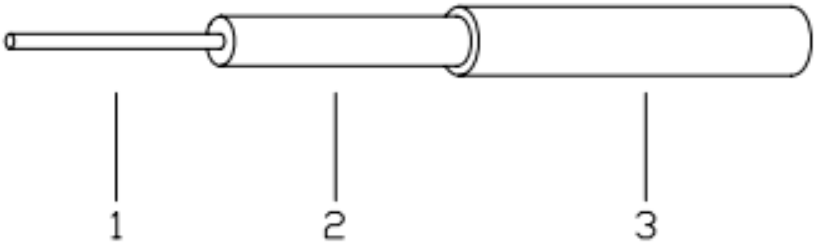


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	19x0.20mm	Silver covered Copper
2.Dielectric	2.95 ± 0.10mm	PTFE
3. Braid	112x0.12mm	Silver covered Copper
4. Braid	112x0.12mm	Silver covered Copper
5.Jacket	5.95±0.1mm	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	70%
Capacitance	105±5
Bent Radius (mm)	10
Max. Oper Voltage (VMS)	1900
Max. Oper Frequency (MHz)	5000
Operating Temperature	-40 to 200℃

Attenuation & Average Power @ 20℃ and Seal Leavel	
Frequency (MHz)	Attenuation (dB/100m)
100	14.40
200	23.90
400	29.50
1000	48.2
2000	76.8
3000	88.50
5000	118.40
11000	189.90

RG402 Cable



Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.94mm	Silver Plated Copper Clad Steel Silver Plated Copper
2.Dielectric	3.00mm	PTFE
3.Outer Conductor	3.58mm	Copper Tube

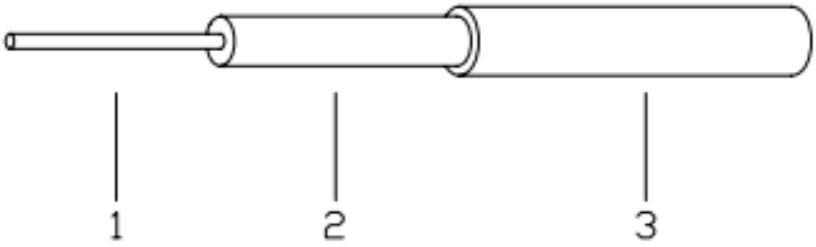
Electrical Characteristics	
Capacitance	95.1
Impedance	50
Corona Extinction Voltage(VRMS@60Hz)	1900
Voltage Withstanding (VRMS@60Hz)	5000
Moding Frequency(GHz)	34

Mechanical Characteristics	
Min.Inside Bend Radius(mm)	12.5
Outer Conductor Integrity Temp.(℃)	175
Operating Temp.(℃)	-55 to +125

Attenuation & Average Power @ 20℃ and Seal Leavel

Frequency (MHz)	Attenuation (dB/100m)	Power (Watts CW)
0.5	26.0	600.5
1.0	38.0	417.5
5.0	91.0	174.4
10.0	137.0	117.5
20.0	209.0	77.9

RG405 Cable



Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.94mm	Silver Plated Copper Clad Steel Silver Plated Copper
2.Dielectric	3.00mm	PTFE
3.Outer Conductor	3.58mm	Copper Tube

Electrical Characteristics	
Capacitance	95.1
Impedance	50
Corona Extinction Voltage(VRMS@60Hz)	1500
Voltage Withstanding (VRMS@60Hz)	5000
Moding Frequency(GHz)	61

Mechanical Characteristics	
Min.Inside Bend Radius(mm)	7.63
Outer Conductor Integrity Temp.(℃)	175
Operating Temp.(℃)	-55 to +125

Attenuation & Average Power @ 20℃ and Seal Leavel

Frequency (MHz)	Attenuation (dB/100m)	Power (Watts CW)
0.5	45.0	232
1.0	64.0	162.4
5.0	151.0	69.8
10.0	222.0	47.9
20.0	329.0	32.6