

# Mininature Coaxial Cables

0.81 mm Mini-Coax

1.13 mm Mini-Coax

1.32 mm Mini-Coax

1.37 mm Mini-Coax

1.48 mm Mini-Coax

RG174 Mini-Coax

RG178 Mini-Coax

RGD178 Mini-Coax

RG179 Mini-Coax

RG316 Mini-Coax

RG316D Mini-Coax

50 VMTX

75 VMTX

# Mininature Coaxial Cables

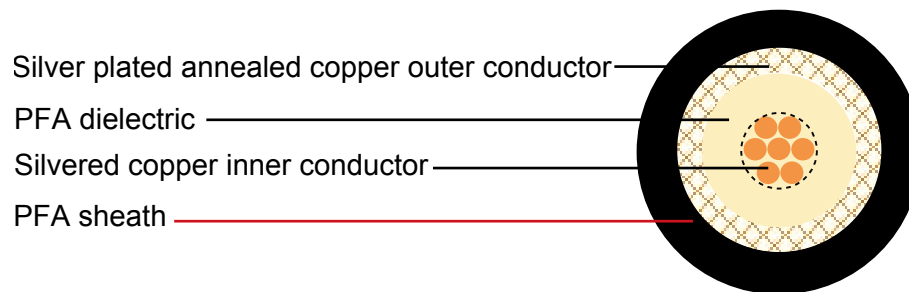
## 0.81 mm Mini-Coax

### Construction

Inner conductor	Silver plated copper	7 x 0.05 mm
Dielectric	PFA	Φ0.40 mm
Outer conductor	Silver plated copper	0.05 mm
Shield coverage		95%
Sheath	PFA	Φ0.81 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	96 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +180 °C
Test insulation voltage	1000V



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
1000	320	97.5
2000	400	121.9
3000	580	176.8
4000	650	198.1
5000	740	225.6
6000	940	286.5

# Mininature Coaxial Cables

## 1.13 mm Mini-Coax

### Construction

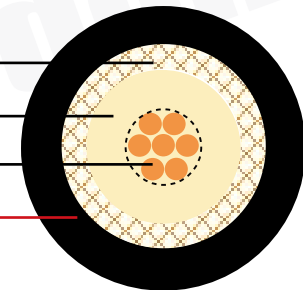
Inner conductor	Silver plated annealed copper	7 x 0.08 mm
Dielectric	PFA	Φ0.68 mm
Outer conductor	Silver plated annealed copper	0.05 mm
Shield coverage		95%
Sheath	PFA	Φ1.13 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	95.6 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +180 °C
Test insulation voltage	1000V



Silver plated annealed copper outer conductor  
 PFA dielectric  
 Silvered copper inner conductor  
 PFA sheath



### Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
1000	230	70.1
2000	310	94.5
3000	390	118.9
4000	460	140.2
5000	510	155.4
6000	580	176.8

# Mininature Coaxial Cables

## 1.32 mm Mini-Coax

### Construction

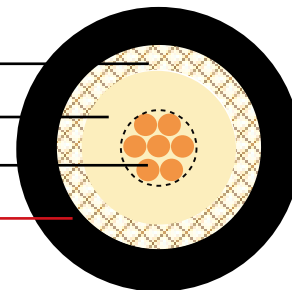
Inner conductor	Silver plated annealed copper	7 x 0.08 mm
Dielectric	PFA	Φ0.66 mm
Outer conductor	Silver plated annealed copper	0.05 mm
Shield coverage		91-93%
Sheath	PFA	Φ1.32 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +180 °C
Test insulation voltage	1000V



Silver plated annealed copper outer conductor  
 PFA dielectric  
 Silvered copper inner conductor  
 PFA sheath



### Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
1000	230	70.1
2000	330	100.6
3000	400	121.9
4000	460	140.2
5000	510	155.4
6000	560	170.7

# Mininature Coaxial Cables

## 1.37 mm Mini-Coax

### Construction

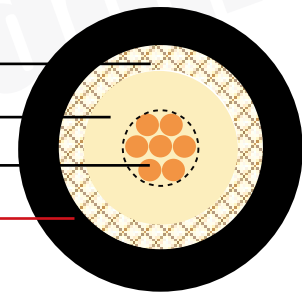
Inner conductor	Silver plated annealed copper	7 x 0.102 mm
Dielectric	PFA	Φ0.89 mm
Outer conductor	Silver plated annealed copper	0.05 mm
Shield coverage		95%
Sheath	PFA	Φ1.37 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	96 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +180 °C
Test insulation voltage	1KV



Silver plated annealed copper outer conductor  
PFA dielectric  
Silvered copper inner conductor  
PFA sheath



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
1000	160	48.8
2000	230	70.1
3000	290	88.4
4000	340	103.6
5000	400	121.9
6000	430	131.1

# Mininature Coaxial Cables

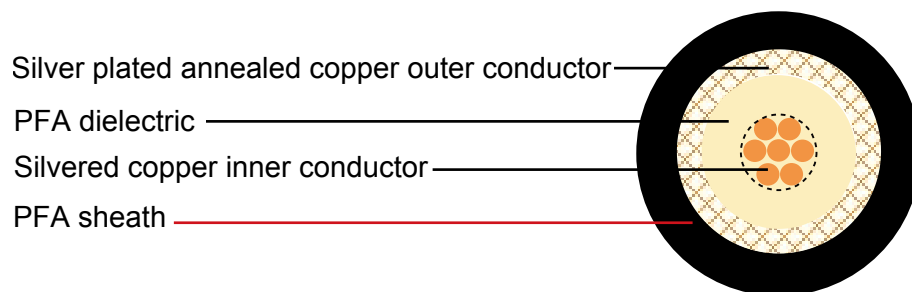
## 1.48 mm Mini-Coax

### Construction

Inner conductor	Silver plated annealed copper	7 x 0.102 mm
Dielectric	PFA	Φ0.86 mm
Outer conductor	Silver plated annealed copper	0.08 mm
Shield coverage		95%
Sheath	PFA	Φ1.48 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	96 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +180 °C
Test insulation voltage	1KV



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
1000	155	47.2
2000	255	77.7
3000	360	109.7
4000	410	125.0
5000	460	140.2
6000	550	167.6

# Mininature Coaxial Cables

## RG174 Mini-Coax

### Construction

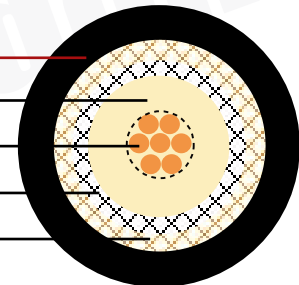
Inner conductor	Copper clad steel(CCS)	7 x 0.16 mm
Dielectric	Solid PE	Φ1.52 mm
Outer conductor (shield 1)	Silver plated copper	0.1mm
Outer conductor (shield 2)	Silver plated copper	0.1mm
Sheath	PVC	Φ2.80 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	101 pF/m
Velocity of propagation	66%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-40°C - +85 °C
Cable weight (approx.)	12 kg/km



PVC sheath  
 Solid PE dielectric  
 Copper covered steel inner conductor  
 Silvered copper outer conductor1  
 Silvered copper outer conductor2



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
100	28	8.5
200	40	12.2
400	58	17.7
900	90	27.4
1200	106	32.3
1500	119	36.3
1800	130	39.6
2000	138	42.1
2500	155	47.2

# Mininature Coaxial Cables

## RG178 Mini-Coax

### Construction

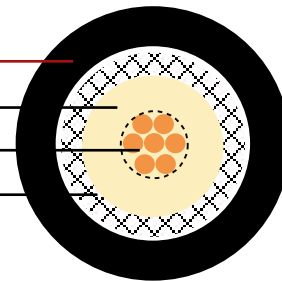
Inner conductor	Silver plated copper	7 x 0.10 mm
Dielectric	PTFE	Φ0.84 mm
Outer conductor	Silver plated copper	0.10 mm
Shield coverage		95%
Sheath	FEP	Φ1.75 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	94 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +200 °C
Cable weight (approx.)	7.8 kg/km



FEP sheath  
 PTFE dielectric  
 Silvered copper inner conductor  
 Silvered copper outer conductor



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
100	46	14.0
200	65	19.8
400	93	28.3
900	140	42.7
1200	162	49.4
1500	182	55.5
1800	200	61.0
2000	211	64.3
2500	236	71.9



# Mininature Coaxial Cables

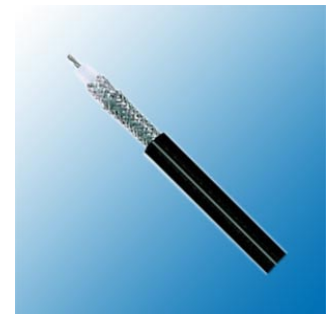
## RGD178 Mini-Coax

### Construction

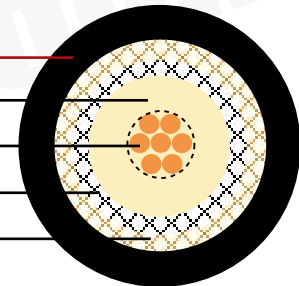
Inner conductor	Silver plated copper	7 x 0.10 mm
Dielectric	Solid PTFE	Φ0.84 mm
Outer conductor (shield 1)	Silver plated copper	0.10 mm
Outer conductor (shield 2)	Silver plated copper	0.10 mm
Sheath	FEP	Φ2.25 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	94 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +200 °C
Cable weight (approx.)	14 kg/km



- FEP sheath
- Solid PTFE dielectric
- Silvered copper covered steel inner conductor
- Silvered copper outer conductor1
- Silvered copper outer conductor2



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
100	46	14.0
200	65	19.8
400	93	28.3
900	140	42.7
1200	162	49.4
1500	182	55.5
1800	200	61.0
2000	211	64.3
2500	236	71.9

# Mininature Coaxial Cables

## RG179 Mini-Coax

### Construction

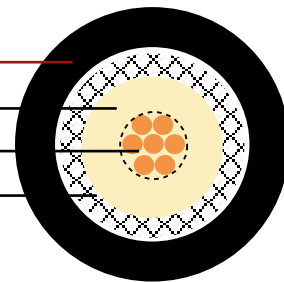
Inner conductor	Silver plated copper	7 x 0.10 mm
Dielectric	Solid PTFE	Φ1.60 mm
Outer conductor	Silver plated copper	0.10 mm
Sheath	FEP	Φ2.50 mm

### Electrical & Mechanical Characteristics

Impedance	75±5 Ohm
Nominal capacitance	63 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +200 °C
Cable weight (approx.)	15 kg/km



FEP sheath  
PTFE dielectric  
Silvered copper inner conductor  
Silvered copper outer conductor



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
100	28	8.5
200	39	11.9
400	56	17.1
900	85	25.9
1200	98	29.9
1500	110	33.5
1800	121	36.9
2000	128	39.0
2500	144	43.9

# Mininature Coaxial Cables

## RG316 Mini-Coax

### Construction

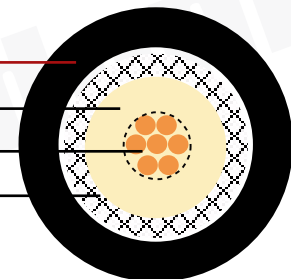
Inner conductor	Silver plated copper	7 x 0.18 mm
Dielectric	Solid PTFE	Φ1.56 mm
Outer conductor	Silver plated copper	0.10 mm
Sheath	FEP	Φ2.45 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	94 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +200 °C
Cable weight (approx.)	15 kg/km



FEP sheath  
PTFE dielectric  
Silvered copper inner conductor  
Silvered copper outer conductor



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
100	27	8.2
200	38	11.6
400	54	16.5
900	82	25.0
1200	95	29.0
1500	106	32.3
1800	117	35.7
2000	124	37.8
2500	139	42.4

# Mininature Coaxial Cables

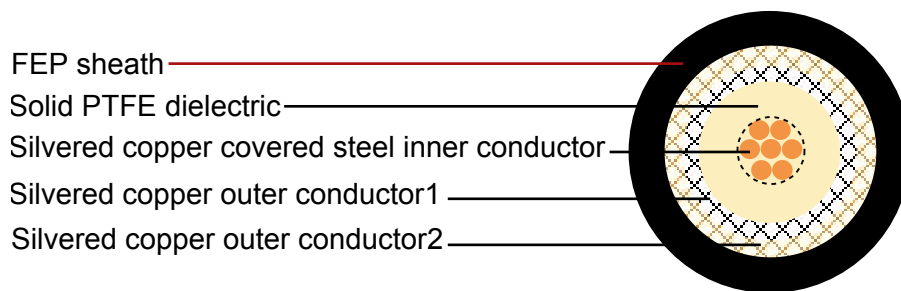
## RG316D Mini-Coax

### Construction

Inner conductor	Silver plated copper	7 x 0.18 mm
Dielectric	Solid PTFE	Φ1.56 mm
Outer conductor 1	Silver plated copper	0.10 mm
Shield coverage		95%
Outer conductor 2	Silver plated copper	0.10 mm
Shield coverage		93%
Sheath	FEP	Φ2.94 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	94 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +200 °C
Cable weight (approx.)	15 kg/km



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
100	27	8.2
200	38	11.6
400	54	16.5
900	82	25.0
1200	95	29.0
1500	106	32.3
1800	117	35.7
2000	124	37.8
2500	139	42.4

# Mininature Coaxial Cables

## 50VMTX

### Construction

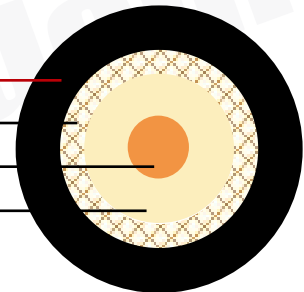
Inner conductor	Silver plated copper clad steel	0.17 mm
Dielectric	FEP/PTFE	Φ0.52 mm
Outer conductor	Tinned copper braid	Φ0.72 mm
Sheath	FEP	Φ1.17 mm

### Electrical & Mechanical Characteristics

Impedance	50±5 Ohm
Nominal capacitance	94.6 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +200 °C
Cable weight (approx.)	3kg/km



FEP sheath  
Tinned copper outer conductor  
Silver plated copper clad steel inner conductor  
FEP/PTFE dielectric



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
10	22	6.7
100	54	16.5
400	115	35.1
1000	220	67.1
2000	320	97.6
3000	450	137.2

# Mininature Coaxial Cables

## 75VMTX

### Construction

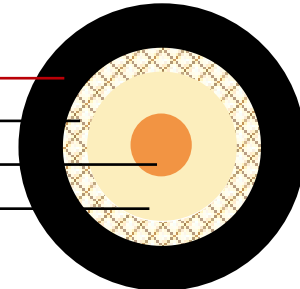
Inner conductor	Silver plated copper clad steel	0.10 mm
Dielectric	FEP/PTFE	Φ0.57 mm
Outer conductor	Tinned copper braid	Φ0.77 mm
Sheath	FEP	Φ1.22 mm

### Electrical & Mechanical Characteristics

Impedance	75±5 Ohm
Nominal capacitance	72.6 pF/m
Velocity of propagation	70%
Insulation resistance	- Mohm.Km
Inner conductor resistance	- Ohm/Km
Outer conductor resistance	- Ohm/Km
Operating temperature range	-55°C - +200 °C
Cable weight (approx.)	3kg/km



FEP sheath  
 Tinned copper outer conductor  
 Silver plated copper clad steel inner conductor  
 FEP/PTFE dielectric



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Max. Attenuation(dB/100ft)
10	36	11.0
100	70	21.3
400	135	41.2
1000	220	67.1
2000	320	97.6
3000	390	118.9