



# Flontec Best Appliance



## COAXIAL CABLES

Coaxial cables are the critical systems component used for transmission of high frequency signals, requiring careful choice of materials and sophisticated production methods.

Our range of coaxial cables meet the high standards set by civil and military authorities worldwide and include MIL-C-17 standard to subminiature, triaxial and double screened coaxial cables.

Different types of coaxials are determined by the materials employed (conductors and dielectrics), the outer diameter, the characteristic impedance, the capacitance, the attenuation and the frequency range.

Coaxial cables are used in many different application fields, e.g. :

- telecommunication equipment demanding less loss and high reliability
- broad casting equipment : radio / television / video
- transmission of high frequency signal
- transport : automotive, cars, planes, marine, etc.
- various types of measuring equipment
- computer systems
- medical devices : scanners, imaging equipment
- military equipment and armament systems
- nuclear power plant
- aerospace industry

## Contents

### Flexible Coaxial Cable

RG-178B/U	6
RG-180	7
RG-179B/U	8
RG-316S	9
RG-316D	10
RG-400/U	11
RG-142B/U	12
RG-303	13
RG-393/U	14
RG-405	15
RG-402	16

### Semi-Flexible Coaxial Cable

SF-085	18
SF-085P	19
SF-141	20
SF-141P	21
SF-250	22

### Semi-Rigid Coaxial Cable

SR-034	24
SR-047	25
SR-085	26
SR-141	27
SR-250	28

### Hook-Up Wire

M16878/4	30
M16878/5	31
M16878/6	32
M16878/23	33
M16878/2	34
M16878/27	35
M22759/9	36
M22759/10	37
M22759/11	38
M22759/12	39

## Greeting

How are you?

This modern time is moving forward as the worlds open, cooperate, and interchange each other. In this globalized and technetronic era, the data transferring technique becomes the decisive index, which controls the competitiveness of each country.

We, Flontec, have been concentrated on the research and development of high quality data transferring technique by manufacturing the radio frequency cable. Based on the technology we've been authorized in Korea, we're foregoing to develop the foreign markets as well.

As pushing on the facility investment and technology development since the company opened, we've succeeded to diversity the business and we're still investing on the new business for preparing for the consumer's request.

All employees are promising the high quality and delivering, and they are doing their best to make the satisfaction of consumers higher.

High communication technology is like a blood vessel, fast moving through the whole body to connect each other very closely. And we, Flontec, are doing the job of this blood vessel in this world. Based on the continuous technical innovations, we will prepare a foundation stone for the country's competitiveness.

In the future, Flontec promises that we will do our best to provide the best product with the best service.

Flontec Co., Ltd.

J.H. Chung, President

## Flexible Coaxial Cable

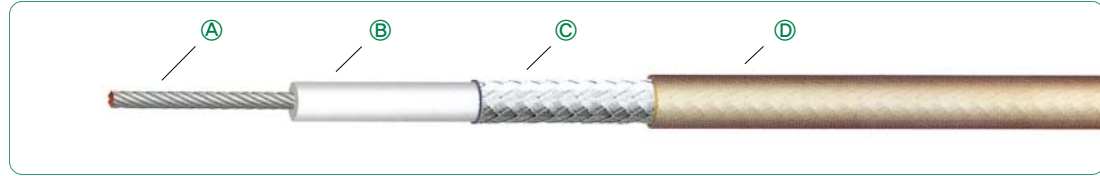


## Flexible Coaxial Cable

### Cable Type : RG-178B/U

- Specification ..... MIL-C-17/93
- Continuous working voltage ..... Max. 750Vrms
- Operating temperature range ..... -55°C ~ 200°C

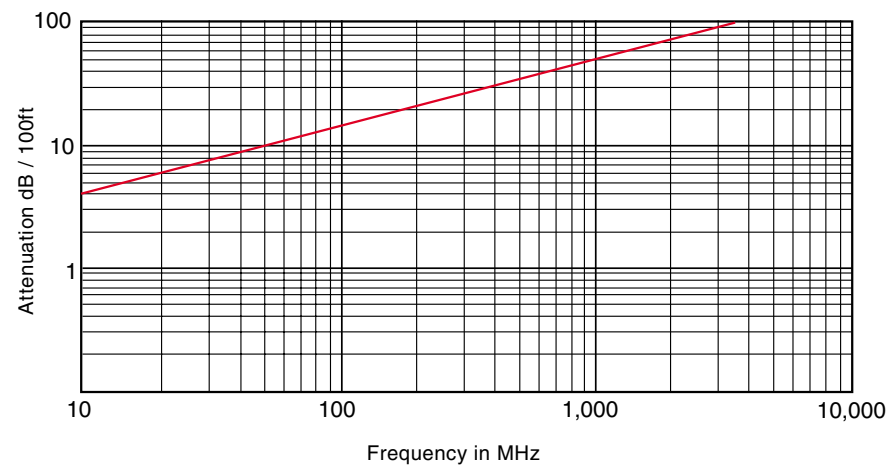
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.31mm(0.012inch)	Strand 7/0.102
Ⓑ Dielectric	PTFE(Solid)	0.84mm(0.033inch)	
Ⓒ Outer shield	SPC(Braid)	1.33mm(0.052inch)	95% Coverage
Ⓓ Jacket	FEP	1.8mm(0.071inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 3 GHz	
Conductor resistance	Max. 24.45 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	2000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	8.4 kg/km	
Nom. attenuation	9.7dB/100ft(0.32dB/m) 14.0dB/100ft(0.46dB/m) 20.2dB/100ft(0.66dB/m) 29.6dB/100ft(0.97dB/m) 33.6dB/100ft(1.10dB/m) 37.2dB/100ft(1.22dB/m) 43.9dB/100ft(1.44dB/m) 47.0dB/100ft(1.54dB/m) 50.0dB/100ft(1.64dB/m)	at 50MHz at 100MHz at 200MHz at 400MHz at 500MHz at 600MHz at 800MHz at 900MHz at 1GHz

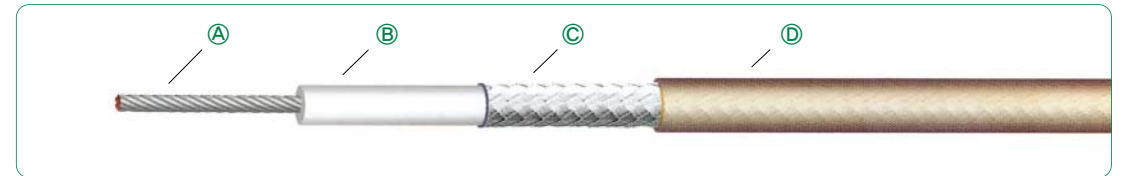


## Flexible Coaxial Cable

### Cable Type : RG-180

- Specification ..... MIL-C-17/95
- Continuous working voltage ..... Max. 1100Vrms
- Operating temperature range ..... -55°C ~ 200°C

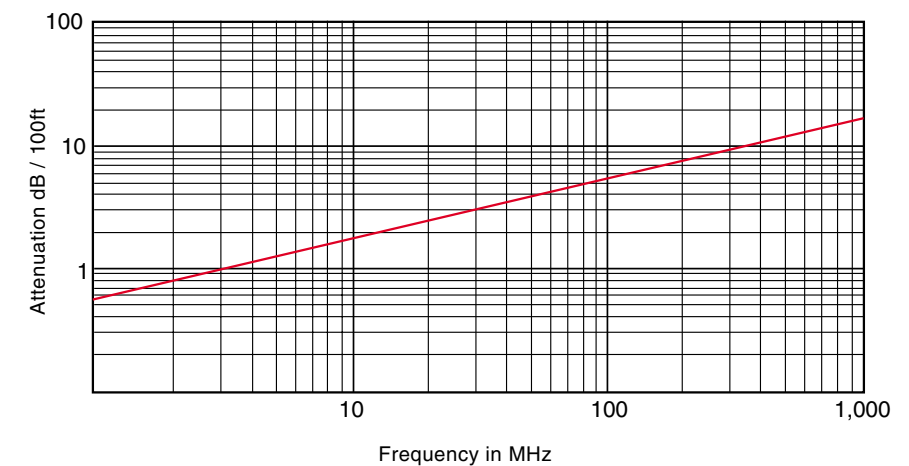
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.31mm(0.012inch)	Strand 7/0.102
Ⓑ Dielectric	PTFE(Solid)	2.59mm(0.102inch)	
Ⓒ Outer shield	SPC(Braid)	3.05mm(0.120inch)	95% Coverage
Ⓓ Jacket	FEP	3.58mm(0.141inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 3 GHz	
Conductor resistance	Max. 24.45 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	2000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 17.4 pF/ft	
Characteristic impedance	95 ± 5 Ω	
Approx. weight	27.3 kg/km	
Nom. attenuation	3.3dB/100ft(0.11dB/m) 4.6dB/100ft(0.15dB/m) 5.7dB/100ft(0.19dB/m) 7.6dB/100ft(0.25dB/m) 10.7dB/100ft(0.35dB/m) 14.9dB/100ft(0.49dB/m) 15.9dB/100ft(0.52dB/m) 17.0dB/100ft(0.56dB/m)	at 10MHz at 50MHz at 100MHz at 200MHz at 400MHz at 700MHz at 900MHz at 1GHz



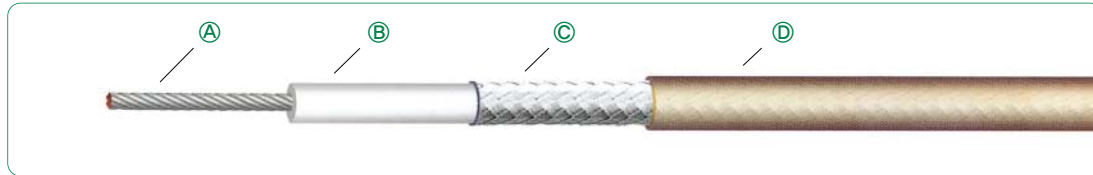


## Flexible Coaxial Cable

### Cable Type : RG-179B/U

- Specification ..... MIL-C-17/94
- Continuous working voltage ..... Max. 900Vrms
- Operating temperature range ..... -55°C ~ 200°C

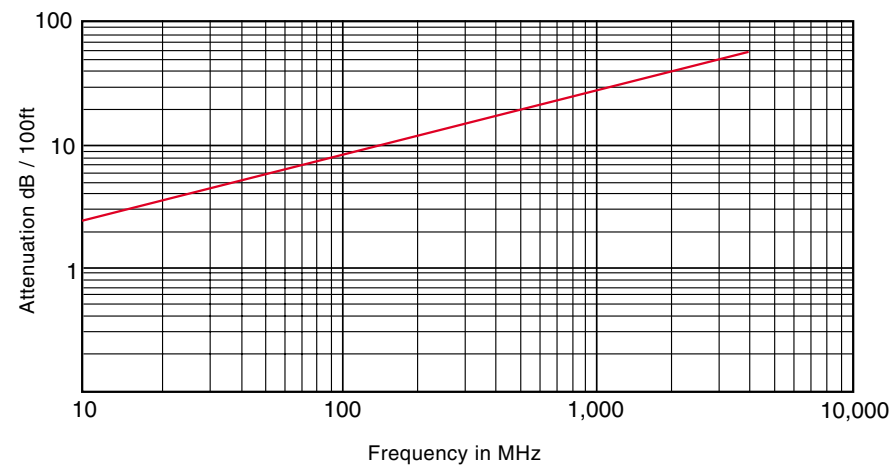
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.31mm(0.012inch)	Strand 7/0.102
Ⓑ Dielectric	PTFE(Solid)	1.55mm(0.061inch)	
Ⓒ Outer shield	SPC(Braid)	2.00mm(0.079inch)	94% Coverage
Ⓓ Jacket	FEP	2.54mm(0.1inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 3 GHz	
Conductor resistance	Max. 24.45 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	2000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 23 pF/ft	
Characteristic impedance	75 ± 3 Ω	
Approx. weight	14.8 kg/km	
Nom. attenuation	5.7dB/100ft(0.19dB/m)	at 50MHz
	8.2dB/100ft(0.27dB/m)	at 100MHz
	11.7dB/100ft(0.38dB/m)	at 200MHz
	17.0dB/100ft(0.56dB/m)	at 400MHz
	19.1dB/100ft(0.63dB/m)	at 500MHz
	21.1dB/100ft(0.69dB/m)	at 600MHz
	24.7dB/100ft(0.81dB/m)	at 800MHz
	26.3dB/100ft(0.86dB/m)	at 900MHz
	27.9dB/100ft(0.92dB/m)	at 1GHz

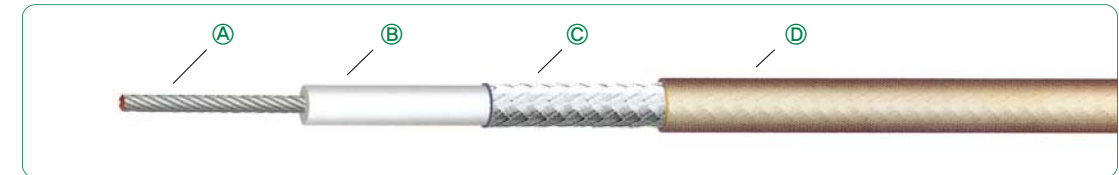


## Flexible Coaxial Cable

### Cable Type : RG-316(Single Shielded Type)

- Specification ..... MIL-C-17/113
- Continuous working voltage ..... Max. 900Vrms
- Operating temperature range ..... -55°C ~ 200°C

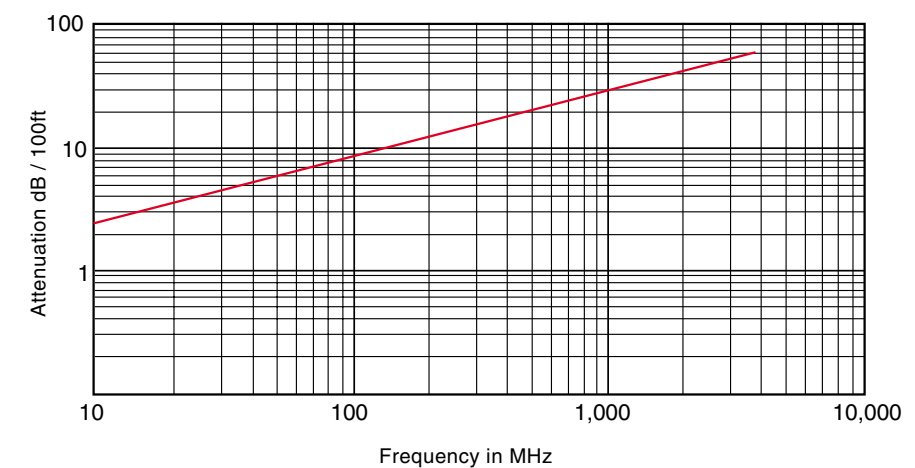
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.51mm(0.02inch)	Strand 7/0.17
Ⓑ Dielectric	PTFE(Solid)	1.52mm(0.06inch)	
Ⓒ Outer shield	SPC(Braid)	2.0mm(0.079inch)	95% Coverage
Ⓓ Jacket	FEP	2.5mm(0.098inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 3 GHz	
Conductor resistance	Max. 8.41 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	2000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	16.0 kg/km	
Nom. attenuation	5.4dB/100ft(0.18dB/m)	at 50MHz
	7.7dB/100ft(0.25dB/m)	at 100MHz
	11.1dB/100ft(0.36dB/m)	at 200MHz
	16.1dB/100ft(0.53dB/m)	at 400MHz
	18.1dB/100ft(0.59dB/m)	at 500MHz
	20.0dB/100ft(0.66dB/m)	at 600MHz
	23.5dB/100ft(0.77dB/m)	at 800MHz
	25.0dB/100ft(0.82dB/m)	at 900MHz
	26.5dB/100ft(0.87dB/m)	at 1GHz

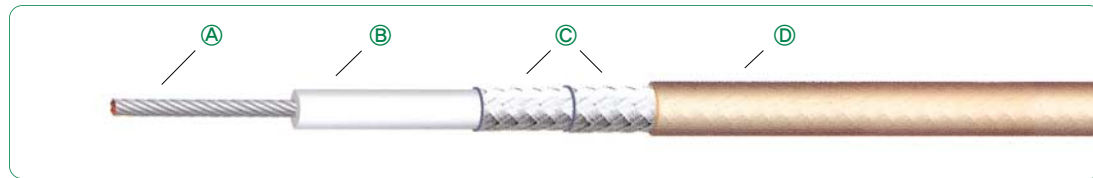


## Flexible Coaxial Cable

### Cable Type : RG-316(Double Shielded Type)

- Specification ..... MIL-C-17/152
- Continuous working voltage ..... Max. 900Vrms
- Operating temperature range ..... -55°C ~ 200°C

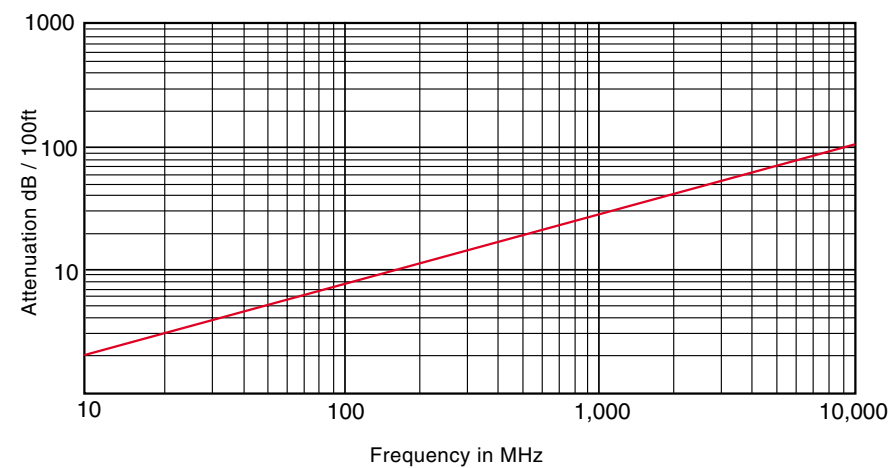
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.51mm(0.02inch)	Strand 7/0.17
Ⓑ Dielectric	PTFE(Solid)	1.52mm(0.061inch)	
Ⓒ Inner shield	SPC(Braid)	2.0mm(0.079inch)	93% Coverage
Outer shield	SPC(Braid)	2.4mm(0.094inch)	95% Coverage
Ⓓ Jacket	FEP	2.9mm(0.114inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 12.4 GHz	
Conductor resistance	Max. 8.41 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	2000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	23.0 kg/km	
Nom. attenuation	5.1dB/100ft(0.17dB/m)	at 50MHz
	23.1dB/100ft(0.76dB/m)	at 500MHz
	34.2dB/100ft(1.12dB/m)	at 1GHz
	59.0dB/100ft(1.94dB/m)	at 3GHz

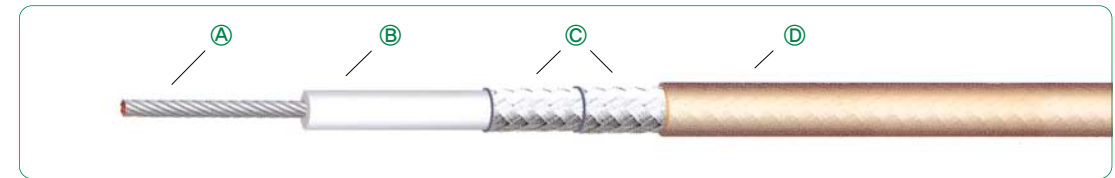


## Flexible Coaxial Cable

### Cable Type : RG-400/U

- Specification ..... MIL-C-17/128
- Continuous working voltage ..... Max. 1400Vrms
- Operating temperature range ..... -55°C ~ 200°C

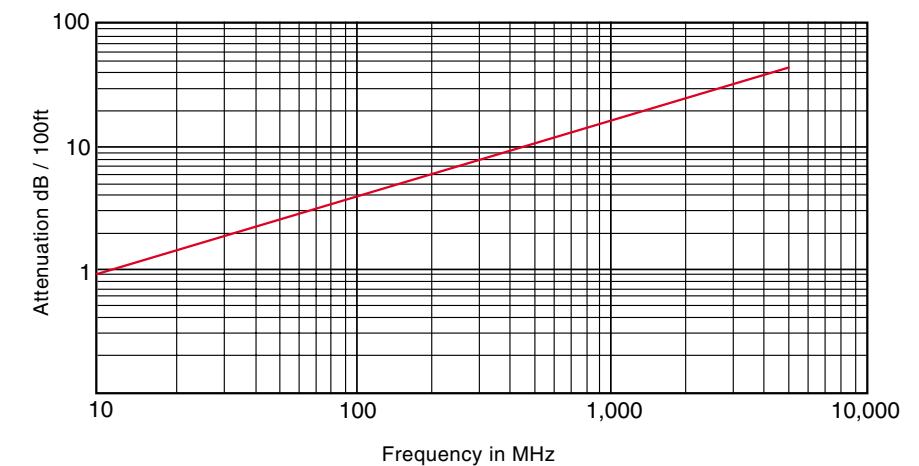
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPC	1.00mm(0.039inch)	Strand 19/0.203
Ⓑ Dielectric	PTFE(Solid)	2.95mm(0.116inch)	
Ⓒ Inner shield	SPC(Braid)	3.60mm(0.142inch)	97% Coverage
Outer shield	SPC(Braid)	4.20mm(0.165inch)	94% Coverage
Ⓓ Jacket	FEP	4.95mm(0.195inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 12.4 GHz	
Conductor resistance	Max. 0.91 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	3000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	64.0 kg/km	
Nom. attenuation	2.8dB/100ft(0.09dB/m)	at 50MHz
	4.0dB/100ft(0.13dB/m)	at 100MHz
	9.8dB/100ft(0.32dB/m)	at 500MHz
	14.7dB/100ft(0.48dB/m)	at 1GHz
	22.4dB/100ft(0.73dB/m)	at 2GHz
	29.0dB/100ft(0.95dB/m)	at 3GHz
	40.6dB/100ft(1.33dB/m)	at 5GHz

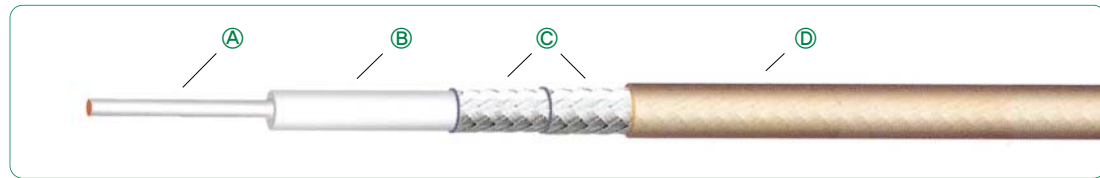


## Flexible Coaxial Cable

### Cable Type : RG-142B/U

- Specification ..... MIL-C-17/60
- Continuous working voltage ..... Max. 1400Vrms
- Operating temperature range ..... -55°C ~ 200°C

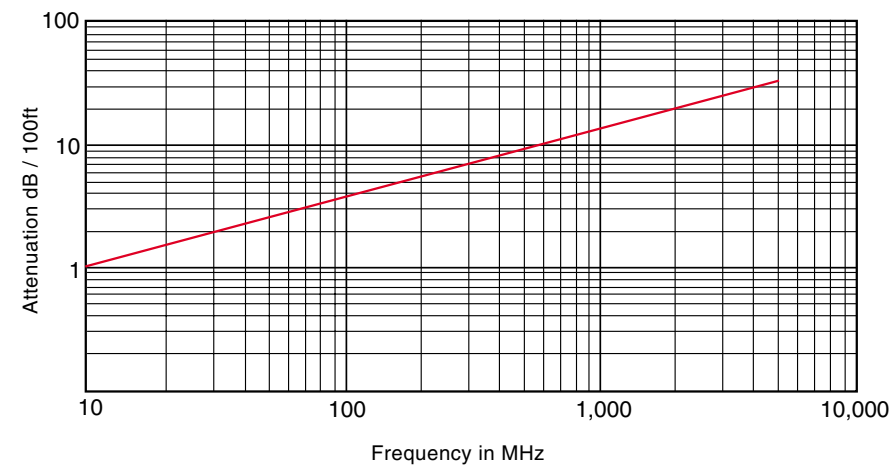
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.94mm(0.037inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	2.95mm(0.116inch)	
Ⓒ Inner shield	SPC(Braid)	3.60mm(0.142inch)	97% Coverage
Outer shield	SPC(Braid)	4.25mm(0.167inch)	94% Coverage
Ⓓ Jacket	FEP	4.95mm(0.195inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 12.4 GHz	
Conductor resistance	Max. 2.06 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Nom. 29.3 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	64.0 kg/km	
Nom. attenuation	2.7dB/100ft(0.09dB/m) 3.9dB/100ft(0.13dB/m) 9.4dB/100ft(0.31dB/m) 13.8dB/100ft(0.45dB/m) 20.8dB/100ft(0.68dB/m) 26.6dB/100ft(0.87dB/m) 36.6dB/100ft(1.20dB/m)	at 50MHz at 100MHz at 500MHz at 1GHz at 2GHz at 3GHz at 5GHz

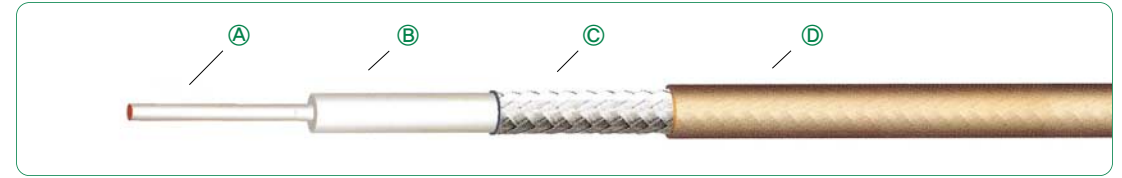


## Flexible Coaxial Cable

### Cable Type : RG-303

- Specification ..... MIL-C-17/111
- Continuous working voltage ..... Max. 1400Vrms
- Operating temperature range ..... -55°C ~ 200°C

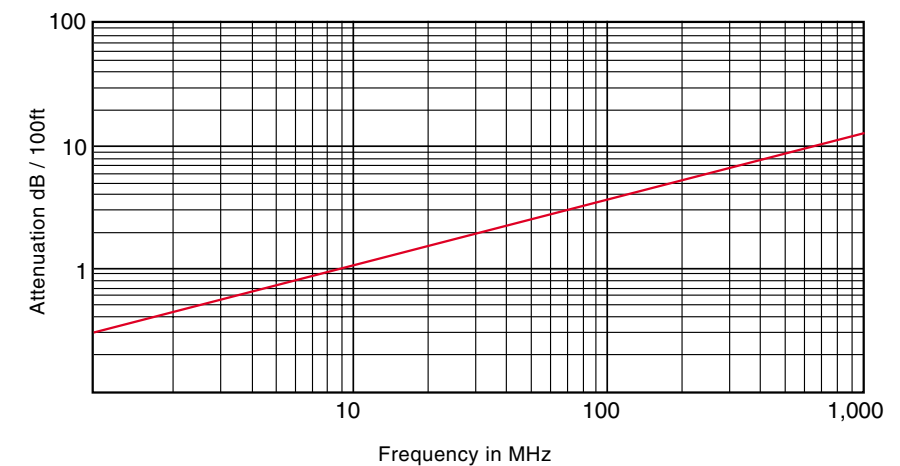
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.94mm(0.037inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	2.95mm(0.116inch)	
Ⓒ Outer shield	SPC(Braid)	3.53mm(0.139inch)	95% Coverage
Ⓓ Jacket	FEP	4.32mm(0.17inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 3 GHz	
Conductor resistance	Max. 2.06 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	45.1 kg/km	
Nom. attenuation	1.1dB/100ft(0.04dB/m) 2.7dB/100ft(0.09dB/m) 3.9dB/100ft(0.13dB/m) 5.6dB/100ft(0.18dB/m) 8.2dB/100ft(0.27dB/m) 11.0dB/100ft(0.36dB/m) 12.5dB/100ft(0.41dB/m) 13.5dB/100ft(0.44dB/m)	at 10MHz at 50MHz at 100MHz at 200MHz at 400MHz at 700MHz at 900MHz at 1GHz

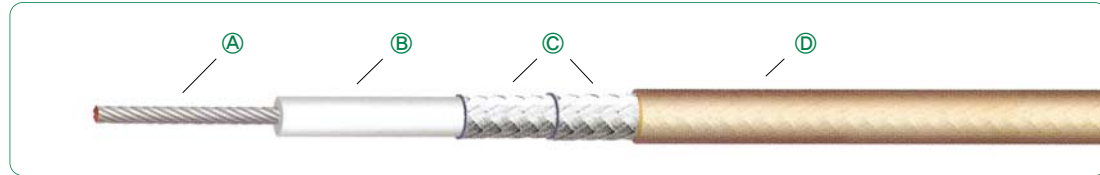


## Flexible Coaxial Cable

### Cable Type : RG-393/U

- Specification ..... MIL-C-17/127
- Continuous working voltage ..... Max. 1875Vrms
- Operating temperature range ..... -55°C ~ 200°C

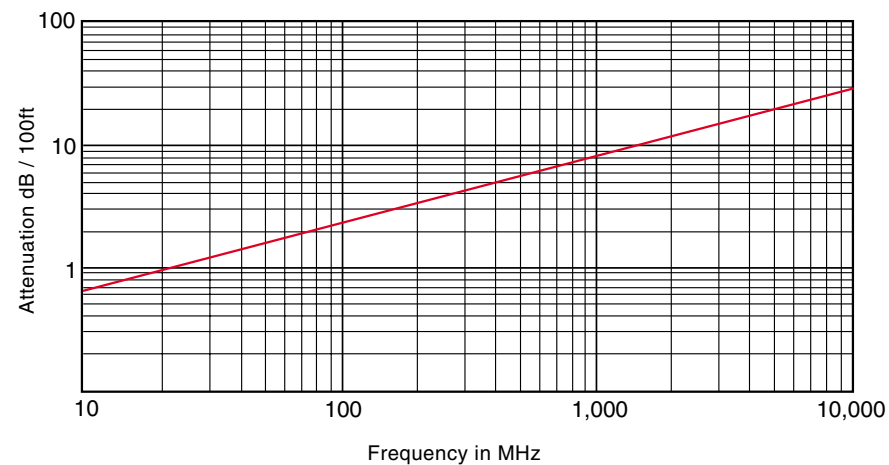
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPC	2.40mm(0.094inch)	Strand 7/0.8
Ⓑ Dielectric	PTFE(Solid)	7.24mm(0.285inch)	
Ⓒ Inner shield	SPC(Braid)	8.00mm(0.315inch)	92% Coverage
Outer shield	SPC(Braid)	8.75mm(0.344inch)	94% Coverage
Ⓓ Jacket	FEP	9.90mm(0.39inch)	Light Brown Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 11 GHz	
Conductor resistance	Max. 0.152 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	7500Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	240 kg/km	
Max. attenuation	1.7dB/100ft(0.06dB/m) 2.4dB/100ft(0.08dB/m) 5.0dB/100ft(0.16dB/m) 8.8dB/100ft(0.29dB/m) 18.0dB/100ft(0.59dB/m)	at 50MHz at 100MHz at 400MHz at 1GHz at 3GHz

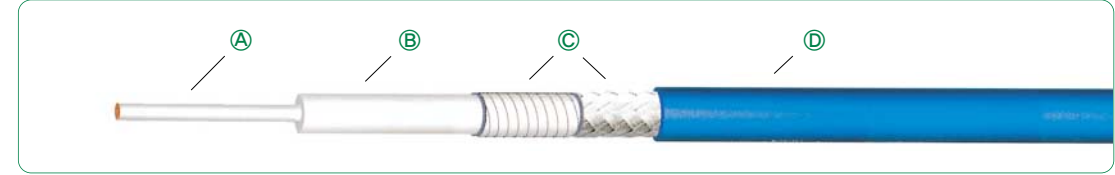


## Flexible Coaxial Cable

### Cable Type : RG-405(Spiral Strip Shield Type)

- Specification ..... MIL-C-17/133
- Continuous working voltage ..... Max. 1500Vrms
- Operating temperature range ..... -55°C ~ 200°C

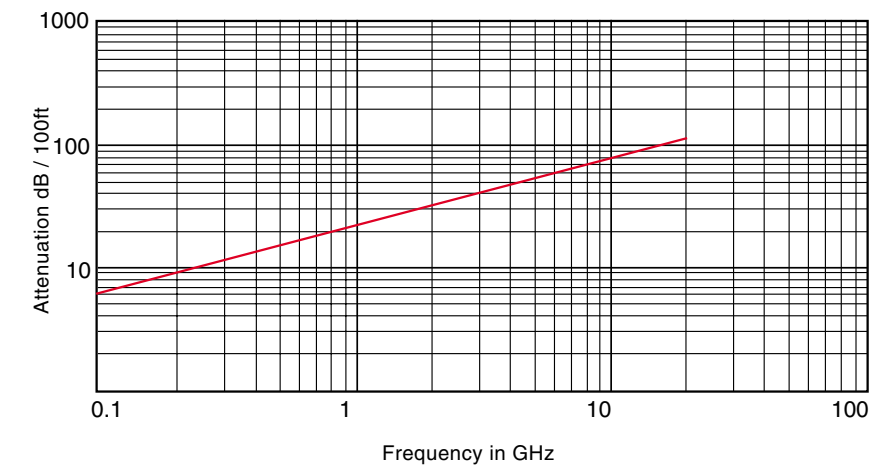
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.511mm(0.02inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	1.63mm(0.064inch)	
Ⓒ Inner shield	SPC(Tape)	1.80mm(0.071inch)	100% Coverage
Outer shield	SPC(Braid)	2.18mm(0.086inch)	97% Coverage
Ⓓ Jacket	FEP	2.64mm(0.104inch)	Sky Blue Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.57 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	19.1 kg/km	
Max. attenuation	14.0dB/100ft(0.46dB/m) 22.0dB/100ft(0.72dB/m) 39.0dB/100ft(1.28dB/m) 50.0dB/100ft(1.64dB/m) 80.0dB/100ft(2.62dB/m) 110.0dB/100ft(3.61dB/m)	at 400MHz at 1GHz at 3GHz at 5GHz at 10GHz at 18GHz



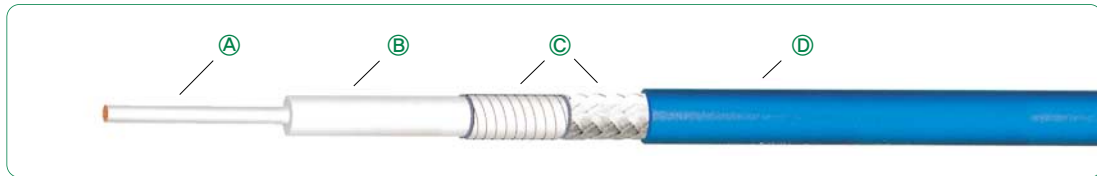


## Flexible Coaxial Cable

### Cable Type : RG-402(Spiral Strip Shield Type)

- Specification ..... MIL-C-17/130
- Continuous working voltage ..... Max. 1900Vrms
- Operating temperature range ..... -55°C ~ 200°C

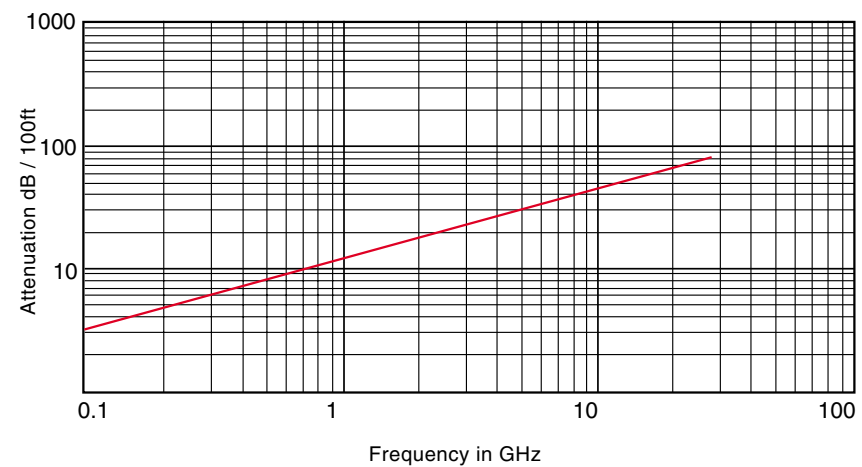
#### Construction



Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.92mm(0.036inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	2.97mm(0.117inch)	
Ⓒ Inner shield	SPC(Tape)	3.25mm(0.128inch)	100% Coverage
Outer shield	SPC(Braid)	3.58mm(0.141inch)	97% Coverage
Ⓓ Jacket	FEP	4.14mm(0.163inch)	Sky Blue Color

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.06 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 29.9 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	43.6 kg/km	
Max. attenuation	8.0dB/100ft(0.26dB/m)	at 400MHz
	12.0dB/100ft(0.39dB/m)	at 1GHz
	21.0dB/100ft(0.69dB/m)	at 3GHz
	29.0dB/100ft(0.95dB/m)	at 5GHz
	45.0dB/100ft(1.48dB/m)	at 10GHz
	64.0dB/100ft(2.10dB/m)	at 18GHz



## Semi-Flexible Coaxial Cable



## Semi - Flexible Coaxial Cable

### Cable Type : SF-085(Semi- Flexible Type)

- Specification ..... MIL-C-17/133
- Continuous working voltage ..... Max. 1500Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

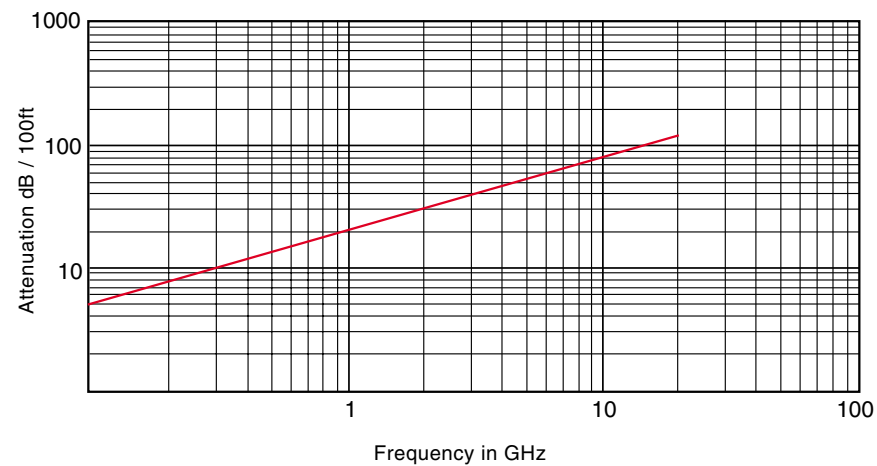


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.511mm(0.02inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	1.68mm(0.066inch)	
Ⓒ Outer shield	TC(Braid)	2.20mm(0.087inch)	100% Coverage

※TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.57 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	16.0 kg/km	
Max. attenuation	15.0dB/100ft(0.49dB/m)	at 500MHz
	22.0dB/100ft(0.72dB/m)	at 1GHz
	50.0dB/100ft(1.64dB/m)	at 5GHz
	80.0dB/100ft(2.62dB/m)	at 10GHz
	130.0dB/100ft(4.27dB/m)	at 20GHz



## Semi - Flexible Coaxial Cable

### Cable Type : SF-085P(Semi- Flexible Type)

- Specification ..... MIL-C-17/133
- Continuous working voltage ..... Max. 1500Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

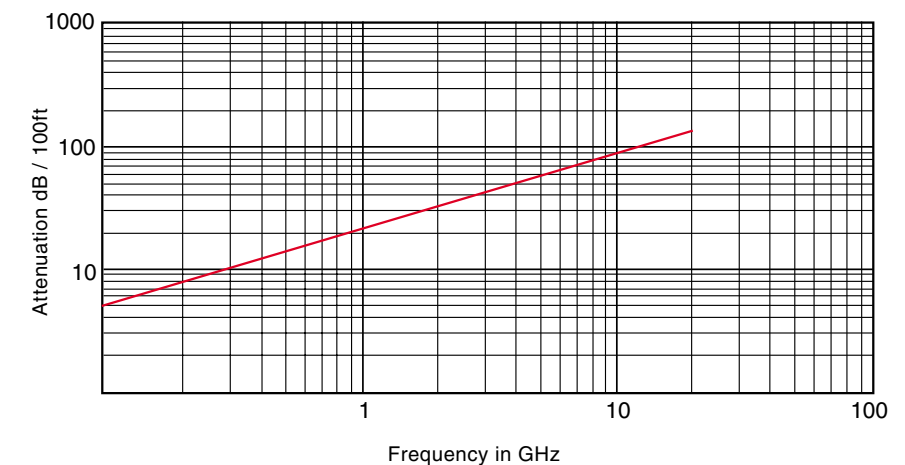


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.511mm(0.02inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	1.68mm(0.066inch)	
Ⓒ Outer shield	TC(Braid)	2.20mm(0.087inch)	100% Coverage
Ⓓ Jacket	PVC(Clear)	3.20mm(0.1061inch)	

※TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.57 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	22.0 kg/km	
Max. attenuation	15.0dB/100ft(0.49dB/m)	at 500MHz
	22.0dB/100ft(0.72dB/m)	at 1GHz
	50.0dB/100ft(1.64dB/m)	at 5GHz
	80.0dB/100ft(2.62dB/m)	at 10GHz
	130.0dB/100ft(4.27dB/m)	at 20GHz

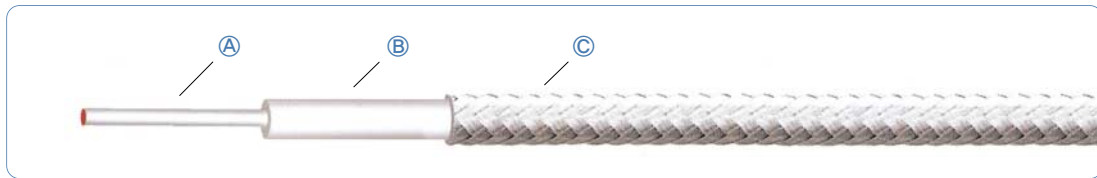


## Semi - Flexible Coaxial Cable

### Cable Type : SF-141(Semi-Flexible Type)

- Specification ..... MIL-C-17/130
- Continuous working voltage ..... Max. 1900Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

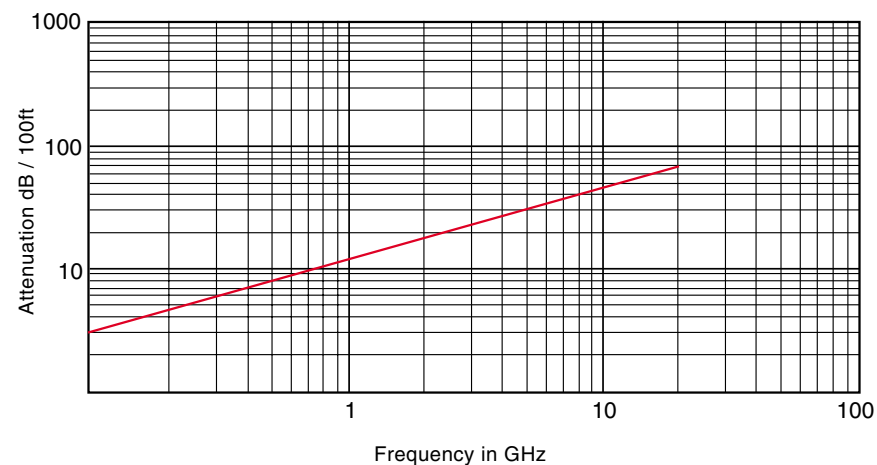


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.92mm(0.036inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	2.98mm(0.117inch)	
Ⓒ Outer shield	TC(Braid)	3.58mm(0.141inch)	100% Coverage

※TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.06 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 29.9 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	36.0 kg/km	
Max. attenuation	8.0dB/100ft(0.26dB/m)	at 500MHz
	12.0dB/100ft(0.39dB/m)	at 1GHz
	21.0dB/100ft(0.69dB/m)	at 3GHz
	29.0dB/100ft(0.95dB/m)	at 5GHz
	45.0dB/100ft(1.48dB/m)	at 10GHz
	70.0dB/100ft(2.30dB/m)	at 20GHz

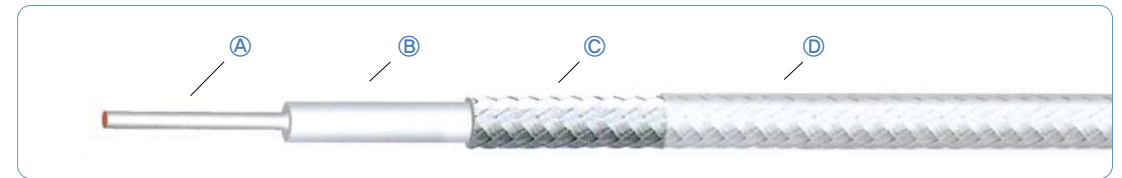


## Semi - Flexible Coaxial Cable

### Cable Type : SF-141P(Semi-Flexible Type)

- Specification ..... MIL-C-17/130
- Continuous working voltage ..... Max. 1900Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

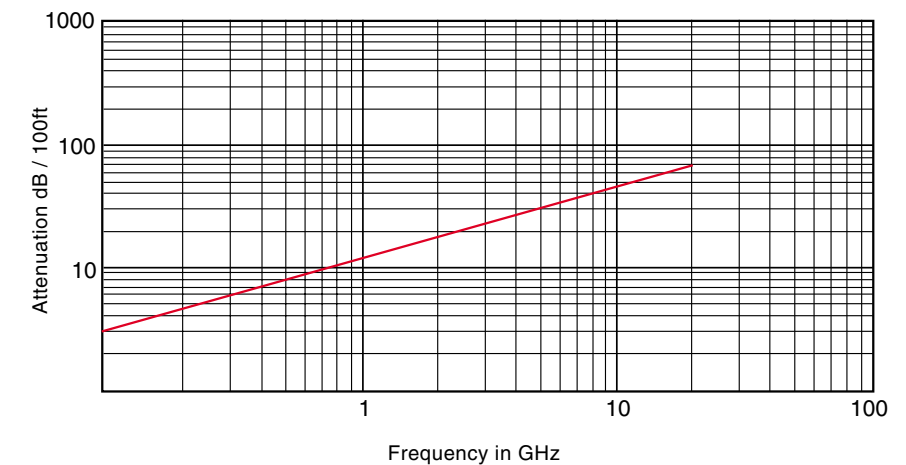


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.92mm(0.036inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	2.98mm(0.117inch)	
Ⓒ Outer shield	TC(Braid)	3.58mm(0.141inch)	100% Coverage
Ⓓ Jacket	PVC(Clear)	4.58mm(0.1801inch)	

※TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.06 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 29.9 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	45.0 kg/km	
Max. attenuation	8.0dB/100ft(0.26dB/m)	at 500MHz
	12.0dB/100ft(0.39dB/m)	at 1GHz
	21.0dB/100ft(0.69dB/m)	at 3GHz
	29.0dB/100ft(0.95dB/m)	at 5GHz
	45.0dB/100ft(1.48dB/m)	at 10GHz
	70.0dB/100ft(2.30dB/m)	at 20GHz

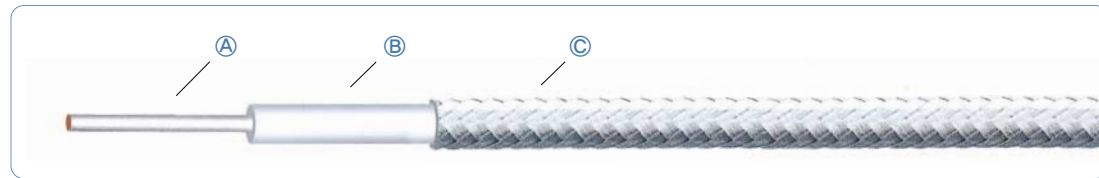


## Semi - Flexible Coaxial Cable

### Cable Type : SF-250(Semi-Flexible Type)

- Specification ..... MIL-C-17/129
- Continuous working voltage ..... Max. 3000Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

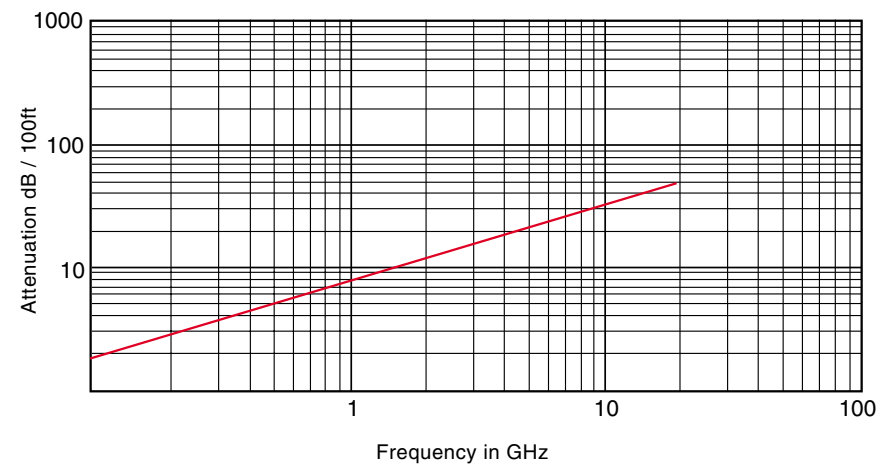


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPC	1.628mm(0.064inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	5.31mm(0.209inch)	
Ⓒ Outer shield	TC(Braid)	6.35mm(0.250inch)	100% Coverage

※TC= Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 18 GHz	
Conductor resistance	Max. 0.257 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	7500Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 29.6 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	114.0 kg/km	
Max. attenuation	4.5dB/100ft(0.15dB/m)	at 400MHz
	7.5dB/100ft(0.25dB/m)	at 1GHz
	16.0dB/100ft(0.52dB/m)	at 3GHz
	33.0dB/100ft(1.08dB/m)	at 10GHz
	48.0dB/100ft(1.57dB/m)	at 18GHz



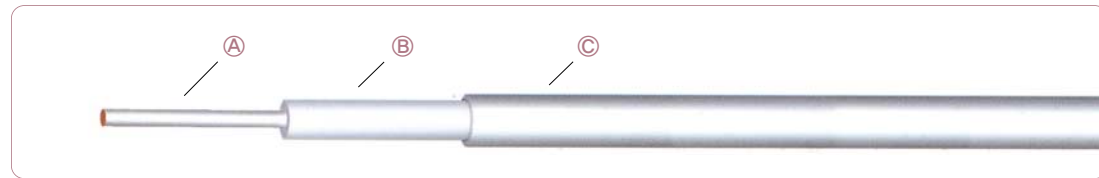
## Semi-Rigid Coaxial Cable

## Semi-Rigid Coaxial Cable

### Cable Type : SR-034(Semi-Rigid Type)

- Specification ..... MIL-C-17/154
- Continuous working voltage ..... Max. 750Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

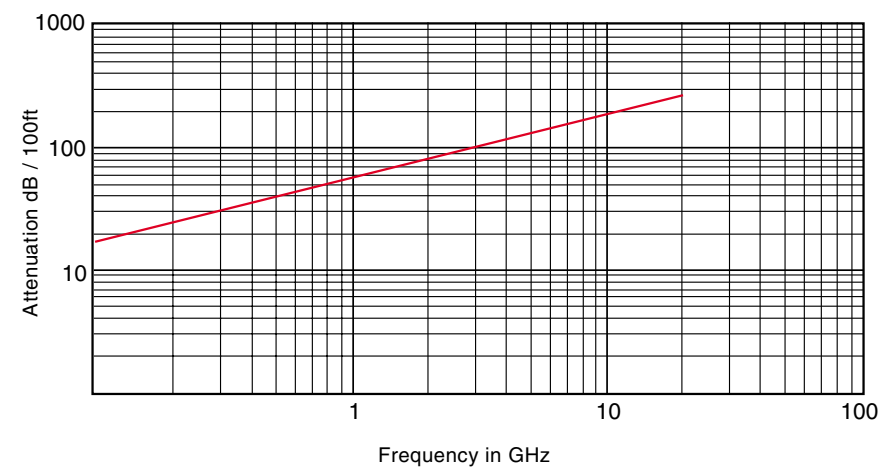


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.203mm(0.008inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	0.66mm(0.026inch)	
Ⓒ Outer shield	TC(Tube)	0.86mm(0.339inch)	100% Coverage

※ TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 41.9 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	2000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	3.1 kg/km	
Max. attenuation	42.0dB/100ft(1.38dB/m) 60.0dB/100ft(1.97dB/m) 100.0dB/100ft(3.28dB/m) 140.0dB/100ft(4.59dB/m) 190.0dB/100ft(6.23dB/m) 280.0dB/100ft(9.19dB/m)	at 500MHz at 1GHz at 3GHz at 5GHz at 10GHz at 20GHz

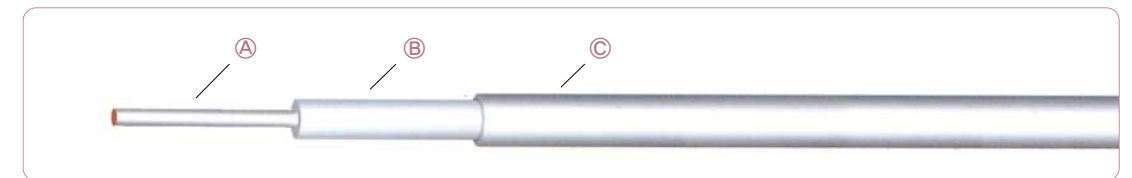


## Semi-Rigid Coaxial Cable

### Cable Type : SR-047(Semi-Rigid Type)

- Specification ..... MIL-C-17/151
- Continuous working voltage ..... Max. 1000Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

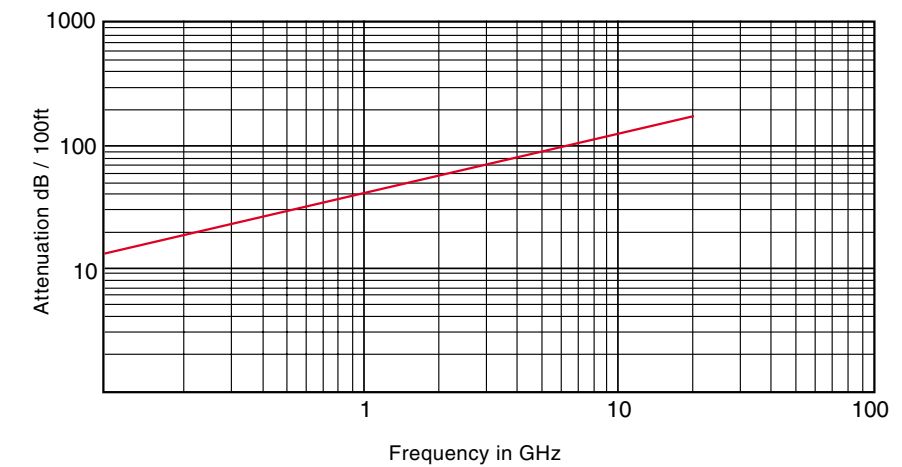


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.287mm(0.011inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	0.94mm(0.037inch)	
Ⓒ Outer shield	TC(Tube)	1.19mm(0.047inch)	100% Coverage

※ TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 20.9 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ.km	at 20°C
Test voltage	2000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	5.7 kg/km	
Max. attenuation	28.0dB/100ft(0.92dB/m) 40.0dB/100ft(1.31dB/m) 70.0dB/100ft(2.30dB/m) 90.0dB/100ft(2.95dB/m) 130.0dB/100ft(4.27dB/m) 190.0dB/100ft(6.23dB/m)	at 500MHz at 1GHz at 3GHz at 5GHz at 10GHz at 20GHz



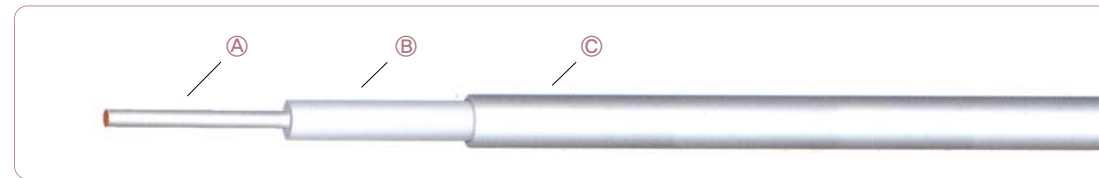


## Semi-Rigid Coaxial Cable

### Cable Type : SR-085(Semi-Rigid Type)

- Specification ..... MIL-C-17/133
- Continuous working voltage ..... Max. 1500Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

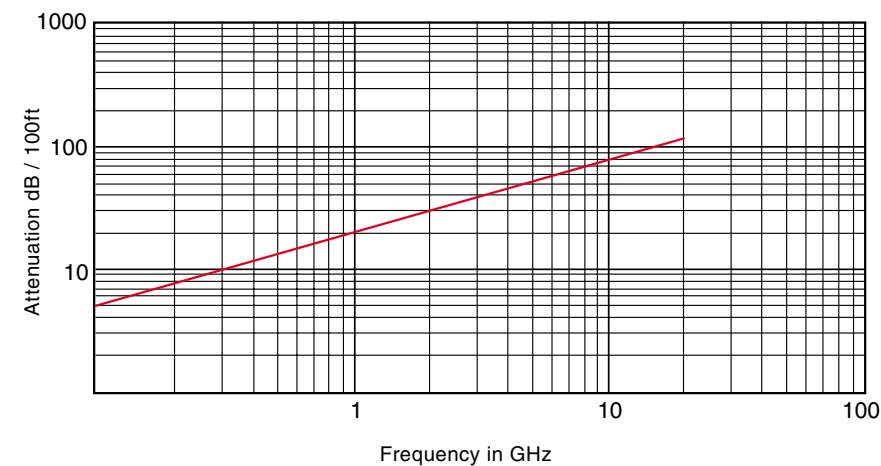


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.511mm(0.02inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	1.68mm(0.066inch)	
Ⓒ Outer shield	TC(Tube)	2.20mm(0.087inch)	100% Coverage

※ TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.57 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ .km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 32 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	20.2 kg/km	
Max. attenuation	15.0dB/100ft(0.49dB/m) 22.0dB/100ft(0.72dB/m) 50.0dB/100ft(1.64dB/m) 80.0dB/100ft(2.62dB/m) 130.0dB/100ft(4.27dB/m)	at 500MHz at 1GHz at 5GHz at 10GHz at 20GHz

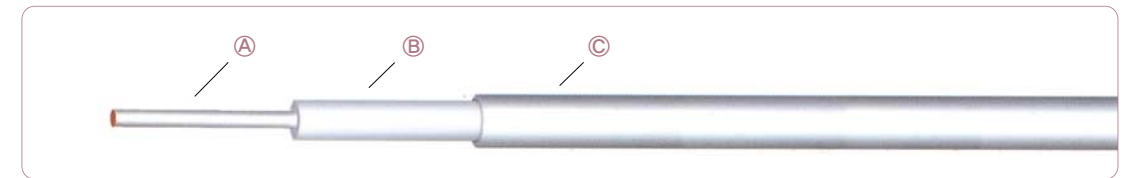


## Semi-Rigid Coaxial Cable

### Cable Type : SR-141(Semi-Rigid Type)

- Specification ..... MIL-C-17/130
- Continuous working voltage ..... Max. 1900Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

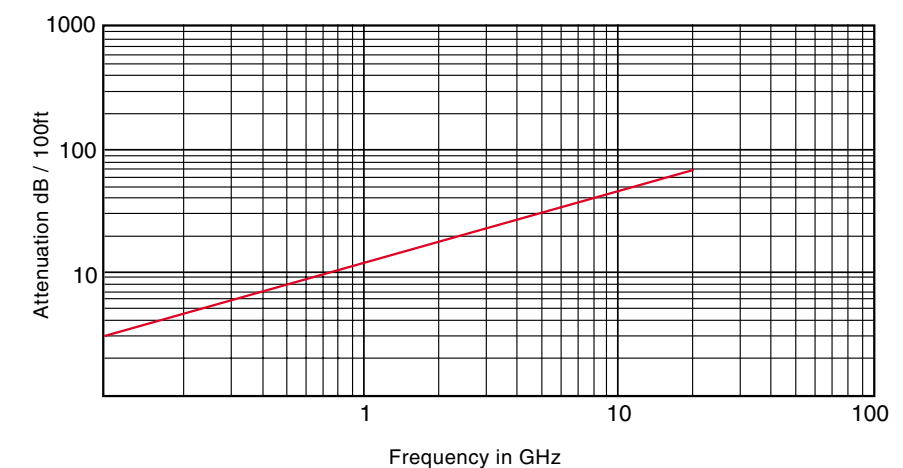


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPCW	0.92mm(0.036inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	2.98mm(0.117inch)	
Ⓒ Outer shield	TC(Tube)	3.58mm(0.141inch)	100% Coverage

※ TC=Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 20 GHz	
Conductor resistance	Max. 2.06 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ .km	at 20°C
Test voltage	5000Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 29.9 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	46.7 kg/km	
Max. attenuation	8.0dB/100ft(0.26dB/m) 12.0dB/100ft(0.39dB/m) 21.0dB/100ft(0.69dB/m) 29.0dB/100ft(0.95dB/m) 45.0dB/100ft(1.48dB/m) 70.0dB/100ft(2.30dB/m)	at 500MHz at 1GHz at 3GHz at 5GHz at 10GHz at 20GHz

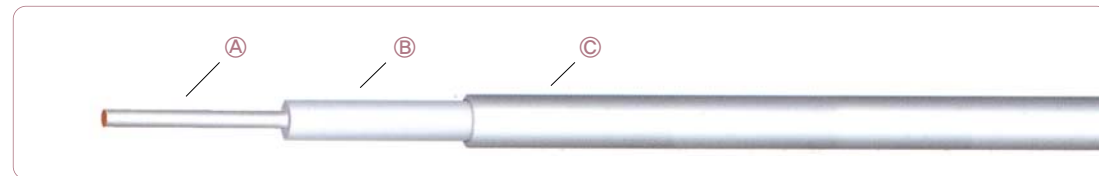


## Semi-Rigid Coaxial Cable

### Cable Type : SR-250(Semi-Rigid Type)

- Specification ..... MIL-C-17/129
- Continuous working voltage ..... Max. 3000Vrms
- Operating temperature range ..... -40°C ~ 125°C

#### Construction

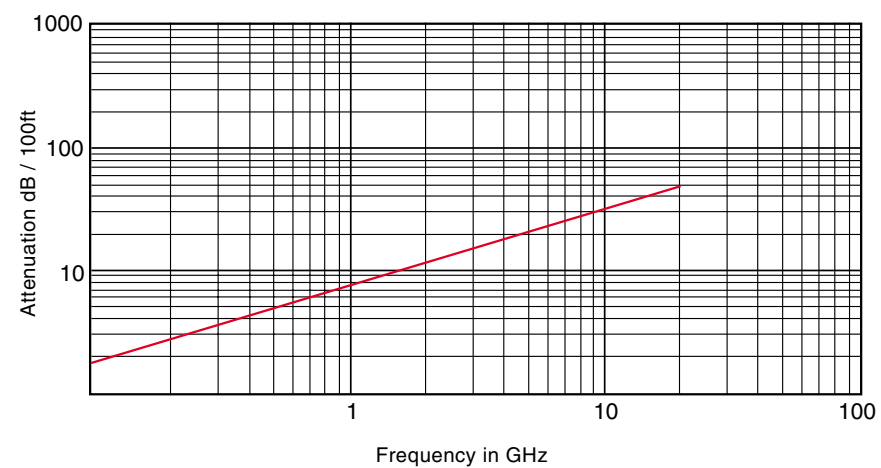


Item	Material	Diameter	Remark
Ⓐ Center conductor	SPC	1.628mm(0.064inch)	Solid type
Ⓑ Dielectric	PTFE(Solid)	5.31mm(0.209inch)	
Ⓒ Outer shield	TC(Tube)	6.35mm(0.25inch)	100% Coverage

※ TC= Tin Plated Copper

#### Electrical Data

Item	Specification	Remark
Operating frequency	Max. 18 GHz	
Conductor resistance	Max. 0.257 Ω /100ft	at 20°C
Dielectric resistance	Min. 1000 MΩ .km	at 20°C
Test voltage	7500Vrms	1 min
Velocity of propagation	Nom. 69.5%	
Capacitance	Max. 29.6 pF/ft	
Characteristic impedance	50 ± 2 Ω	
Approx. weight	147.0 kg/km	
Max. attenuation	4.5dB/100ft(0.15dB/m)	at 400MHz
	7.5dB/100ft(0.25dB/m)	at 1GHz
	16.0dB/100ft(0.52dB/m)	at 3GHz
	33.0dB/100ft(1.08dB/m)	at 10GHz
	48.0dB/100ft(1.57dB/m)	at 18GHz



# Hook-up Wire

## Hook-up Wire

### Wire Type : M16878/4

- Specification ..... MIL-W-16878
- Continuous working voltage ..... 600V
- Operating temperature range ..... 200°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
SPC	30	1/0.254	0.254	PTFE	0.25	0.75
SPC	30	7/0.102	0.306	PTFE	0.25	0.81
SPC	28	1/0.320	0.320	PTFE	0.25	0.82
SPC	28	7/0.127	0.381	PTFE	0.25	0.88
SPC	26	1/0.404	0.404	PTFE	0.25	0.90
SPC	26	7/0.160	0.480	PTFE	0.25	0.98
SPC	24	1/0.511	0.511	PTFE	0.25	1.01
SPC	24	7/0.203	0.609	PTFE	0.25	1.11
SPC	22	1/0.643	0.643	PTFE	0.25	1.14
SPC	22	7/0.254	0.762	PTFE	0.25	1.26
SPC	20	1/0.813	0.813	PTFE	0.25	1.31
SPC	20	7/0.320	0.960	PTFE	0.25	1.46
SPC	18	1/1.024	1.024	PTFE	0.25	1.52
SPC	18	7/0.404	1.212	PTFE	0.25	1.71
SPC	12	37/0.320	2.240	PTFE	0.50	3.24

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 100 M $\Omega$ .km	at 20°C
Voltage withstanding	1500V	1 min

## Hook-up Wire

### Wire Type : M16878/5

- Specification ..... MIL-W-16878
- Continuous working voltage ..... 1000V
- Operating temperature range ..... 200°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
SPC	30	1/0.254	0.254	PTFE	0.38	1.01
SPC	30	7/0.102	0.306	PTFE	0.38	1.07
SPC	28	1/0.320	0.320	PTFE	0.38	1.08
SPC	28	7/0.127	0.381	PTFE	0.38	1.14
SPC	26	1/0.404	0.404	PTFE	0.38	1.16
SPC	26	7/0.160	0.480	PTFE	0.38	1.24
SPC	24	1/0.511	0.511	PTFE	0.38	1.27
SPC	24	7/0.203	0.609	PTFE	0.38	1.37
SPC	22	1/0.643	0.643	PTFE	0.38	1.40
SPC	22	7/0.254	0.762	PTFE	0.38	1.52
SPC	20	1/0.813	0.813	PTFE	0.38	1.57
SPC	20	7/0.320	0.960	PTFE	0.38	1.34
SPC	18	1/1.024	1.024	PTFE	0.38	1.78
SPC	18	7/0.404	1.212	PTFE	0.38	1.97
SPC	12	37/0.320	2.240	PTFE	0.38	3.00
SPC	10	37/0.404	2.828	PTFE	0.38	3.59

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 100 M $\Omega$ .km	at 20°C
Voltage withstanding	2000V	1 min

## Hook-up Wire

### Wire Type : M16878/6

- Specification ..... MIL-W-16878
- Continuous working voltage ..... 250V
- Operating temperature range ..... 200°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
SPC	30	1/0.254	0.254	PTFE	0.15	0.55
SPC	30	7/0.102	0.306	PTFE	0.15	0.61
SPC	28	1/0.320	0.320	PTFE	0.15	0.62
SPC	28	7/0.127	0.381	PTFE	0.15	0.68
SPC	26	1/0.404	0.404	PTFE	0.15	0.70
SPC	26	7/0.160	0.480	PTFE	0.15	0.78
SPC	24	1/0.511	0.511	PTFE	0.15	0.81
SPC	24	7/0.203	0.609	PTFE	0.15	0.91
SPC	22	1/0.643	0.643	PTFE	0.15	0.94
SPC	22	7/0.254	0.762	PTFE	0.15	1.06
SPC	20	1/0.813	0.813	PTFE	0.15	1.11
SPC	20	7/0.320	0.960	PTFE	0.15	1.26

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 50 M $\Omega$ .km	at 20°C
Voltage withstanding	1000V	1 min

## Hook-up Wire

### Wire Type : M16878/23

- Specification ..... MIL-W-16878
- Continuous working voltage ..... 600V
- Operating temperature range ..... 260°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
NPC	30	1/0.254	0.254	PTFE	0.15	0.55
NPC	30	7/0.102	0.306	PTFE	0.15	0.61
NPC	28	1/0.320	0.320	PTFE	0.15	0.62
NPC	28	7/0.127	0.381	PTFE	0.15	0.68
NPC	26	1/0.404	0.404	PTFE	0.15	0.70
NPC	26	7/0.160	0.480	PTFE	0.15	0.78
NPC	24	1/0.511	0.511	PTFE	0.15	0.81
NPC	24	7/0.203	0.609	PTFE	0.15	0.91
NPC	22	1/0.643	0.643	PTFE	0.15	0.94
NPC	22	7/0.254	0.762	PTFE	0.15	1.06
NPC	20	1/0.813	0.813	PTFE	0.15	1.11
NPC	20	7/0.320	0.960	PTFE	0.15	1.26

※ NPC=Nickel-Plated Copper

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 50 M $\Omega$ .km	at 20°C
Voltage withstanding	1500V	1 min

## Hook-up Wire

### Wire Type : M16878/2

- Specification ..... MIL-W-16878
- Continuous working voltage ..... 1000V
- Operating temperature range ..... 260°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
NPC	30	1/0.254	0.254	PTFE	0.25	0.75
NPC	30	7/0.102	0.306	PTFE	0.25	0.81
NPC	28	1/0.320	0.320	PTFE	0.25	0.82
NPC	28	7/0.127	0.381	PTFE	0.25	0.88
NPC	26	1/0.404	0.404	PTFE	0.25	0.90
NPC	26	7/0.160	0.480	PTFE	0.25	0.98
NPC	24	1/0.511	0.511	PTFE	0.25	1.01
NPC	24	7/0.203	0.609	PTFE	0.25	1.11
NPC	22	1/0.643	0.643	PTFE	0.25	1.14
NPC	22	7/0.254	0.762	PTFE	0.25	1.26
NPC	20	1/0.813	0.813	PTFE	0.25	1.31
NPC	20	7/0.320	0.960	PTFE	0.25	1.46
NPC	18	1/1.024	1.024	PTFE	0.25	1.52
NPC	18	7/0.404	1.212	PTFE	0.25	1.71
NPC	12	37/0.320	2.240	PTFE	0.33	2.90

※ NPC=Nickel-Plated Copper

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 100 M $\Omega$ .km	at 20°C
Voltage withstanding	2000V	1 min

## Hook-up Wire

### Wire Type : M16878/27

- Specification ..... MIL-W-16878
- Continuous working voltage ..... 250V
- Operating temperature range ..... 260°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
NPC	30	1/0.254	0.254	PTFE	0.38	1.01
NPC	30	7/0.102	0.306	PTFE	0.28	1.07
NPC	28	1/0.320	0.320	PTFE	0.38	1.08
NPC	28	7/0.127	0.381	PTFE	0.38	1.14
NPC	26	1/0.404	0.404	PTFE	0.38	1.16
NPC	26	7/0.160	0.480	PTFE	0.38	1.24
NPC	24	1/0.511	0.511	PTFE	0.38	1.27
NPC	24	7/0.203	0.609	PTFE	0.38	1.37
NPC	22	1/0.643	0.643	PTFE	0.38	1.40
NPC	22	7/0.254	0.762	PTFE	0.38	1.52
NPC	20	1/0.813	0.813	PTFE	0.38	1.57
NPC	20	7/0.320	0.960	PTFE	0.38	1.34
NPC	18	1/1.024	1.024	PTFE	0.41	1.84
NPC	18	7/0.404	1.212	PTFE	0.41	2.03
NPC	12	37/0.320	2.240	PTFE	0.51	3.26
NPC	10	37/0.404	2.828	PTFE	0.51	3.85

※ NPC=Nickel-Plated Copper

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 100 M $\Omega$ .km	at 20°C
Voltage withstanding	1000V	1 min



## Hook-up Wire

### Wire Type : M22759/9

- Specification ..... MIL-W-22759
- Continuous working voltage ..... 1000V
- Operating temperature range ..... 200°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
SPC	28	7/0.127	0.381	PTFE	0.36	1.10
SPC	26	19/0.102	0.510	PTFE	0.38	1.27
SPC	24	19/0.127	0.635	PTFE	0.38	1.40
SPC	22	19/0.160	0.800	PTFE	0.38	1.56
SPC	20	19/0.203	1.015	PTFE	0.38	1.78
SPC	18	19/0.254	1.270	PTFE	0.41	2.09
SPC	16	19/0.287	1.435	PTFE	0.41	2.26
SPC	14	19/0.361	1.805	PTFE	0.43	2.67
SPC	12	19/0.455	2.275	PTFE	0.43	3.14
SPC	10	37/0.404	2.828	PTFE	0.43	3.69

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 50 M $\Omega$ .km	at 20°C
Voltage withstanding	2000V	1 min

## Hook-up Wire

### Wire Type : M22759/10

- Specification ..... MIL-W-22759
- Continuous working voltage ..... 1000V
- Operating temperature range ..... 260°C



#### Construction & Material

Conductor				Insulation		
Material (-)	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
NPC	28	7/0.127	0.381	PTFE	0.36	1.10
NPC	26	19/0.102	0.510	PTFE	0.38	1.27
NPC	24	19/0.127	0.635	PTFE	0.38	1.40
NPC	22	19/0.160	0.800	PTFE	0.38	1.56
NPC	20	19/0.203	1.015	PTFE	0.38	1.78
NPC	18	19/0.254	1.270	PTFE	0.41	2.09
NPC	16	19/0.287	1.435	PTFE	0.41	2.26
NPC	14	19/0.361	1.805	PTFE	0.43	2.67
NPC	12	19/0.455	2.275	PTFE	0.43	3.14
NPC	10	37/0.404	2.828	PTFE	0.43	3.69

※ NPC=Nickel-Plated Copper

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 100 M $\Omega$ .km	at 20°C
Voltage withstanding	2000V	1 min

## Hook-up Wire

### Wire Type : M22759/11

- Specification ..... MIL-W-22759
- Continuous working voltage ..... 600V
- Operating temperature range ..... 200°C



#### Construction & Material

Material (-)	Conductor			Insulation		
	Size (AWG)	Stranding (EA/mm)	Diameter (mm)	Material (-)	Thickness (mm)	Diameter (mm)
SPC	28	7/0.127	0.381	PTFE	0.23	0.84
SPC	26	19/0.102	0.510	PTFE	0.25	1.01
SPC	24	19/0.127	0.635	PTFE	0.25	1.14
SPC	22	19/0.160	0.800	PTFE	0.25	1.30
SPC	20	19/0.203	1.015	PTFE	0.25	1.52
SPC	18	19/0.254	1.270	PTFE	0.28	1.83
SPC	16	19/0.287	1.435	PTFE	0.28	2.00
SPC	14	19/0.361	1.805	PTFE	0.30	2.41
SPC	12	19/0.455	2.275	PTFE	0.36	3.00
SPC	10	37/0.404	2.828	PTFE	0.41	3.65

#### Electrical Data

Item	Specification	Remark
Insulation resistance	Min. 50 M $\Omega$ .km	at 20°C
Voltage withstanding	1500V	1 min



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