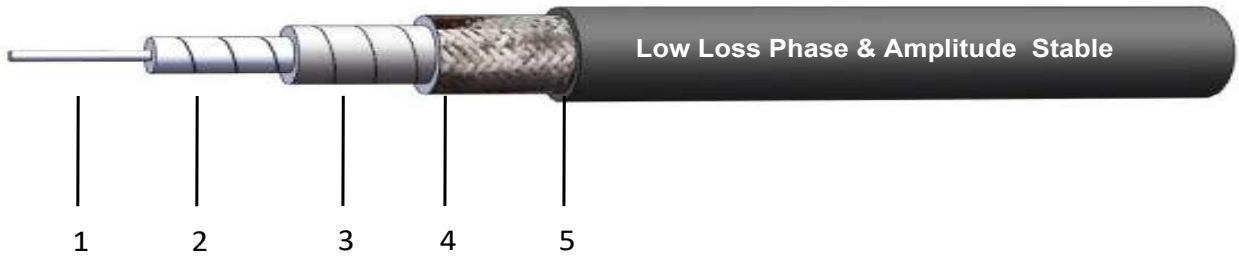
STA150



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.30	Solid SPC
2	Dielectric	0.88	LD-PTFE
3	Outer Conductor	1.00	SPC Strip
4	Outer Shield	1.23	SPC Braid
5	Jacket	1.50	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 8mm
Dynamic Bend Radius： 15mm
Weight：0.0054Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 110GTLZ
Cutoff Frequency： 128GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 80%
Shielding Effectiveness： >90dB
Voltage Power： 400V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	113.7	161.6	198.5	282.9	328.0	368.0	411.3	499.3	611.5	760.4
Avg.Power (kW)	0.097	0.068	0.056	0.039	0.034	0.030	0.027	0.022	0.018	0.015
				K1=	3.557846					
				K2=	0.001221					
			Calculation =		K1*√FMhz+K2*FMHz					

Features & Advantages

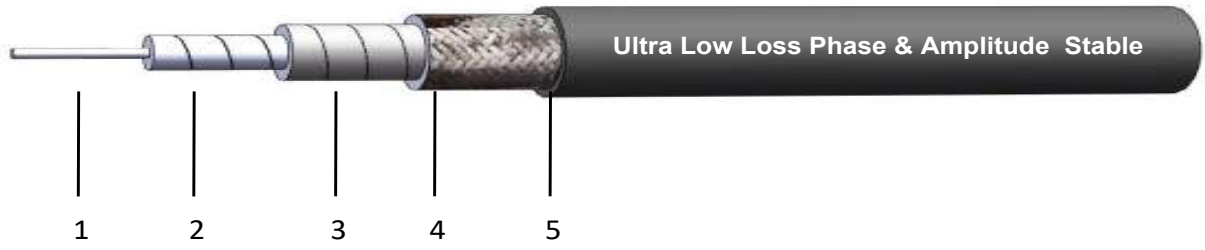
Phase Change vs Temperature（<1000PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA220



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.50	Solid SPC
2	Dielectric	1.38	LD-PTFE
3	Outer Conductor	1.54	SPC Strip
4	Outer Shield	1.95	SPC Braid
5	Jacket	2.20	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 8.8mm
Dynamic Bend Radius： 22mm
Weight：0.016Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 83GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 80%
Shielding Effectiveness： >90dB
Voltage Power： 400V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	63.7	90.8	111.9	160.4	186.5	209.8	235.2	287.1	354.0	444.0
Avg.Power (kW)	0.097	0.068	0.055	0.039	0.033	0.029	0.026	0.022	0.017	0.014
				K1=	1.975832					
				K2=	0.001221					
			Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

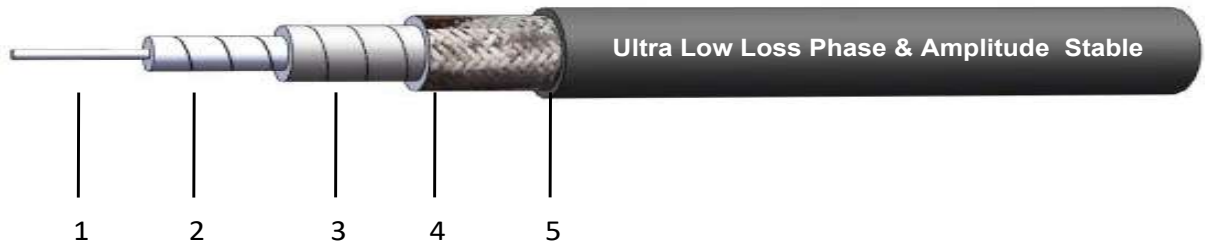
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA300



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.70	Solid SPC
2	Dielectric	1.93	LD-PTFE
3	Outer Conductor	2.09	SPC Strip
4	Outer Shield	2.66	SPC Braid
5	Jacket	3.10	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 15mm
Dynamic Bend Radius： 31mm
Weight：0.027Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 50GTLZ
Cutoff Frequency： 60GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 82%
Shielding Effectiveness： >90dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000	50000
Attenuation(dB/100m)	46.8	66.6	81.9	117.1	135.9	152.6	170.8	207.9	255.4	318.9	360.1
Avg.Power (kW)	0.407	0.286	0.232	0.163	0.140	0.125	0.111	0.092	0.075	0.060	0.053
				K1=	1.458470						
				K2=	0.000680						
			Calcualtion=	K1*√FMhz+K2*FMHz							

Features & Advantages

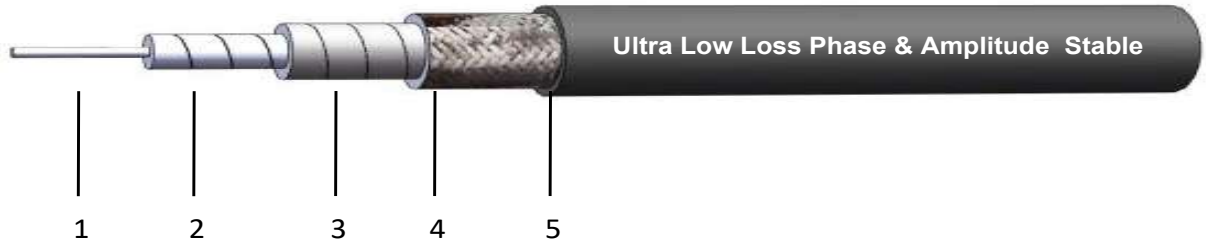
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA360



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	Solid SPC
2	Dielectric	2.50	LD-PTFE
3	Outer Conductor	2.66	SPC Strip
4	Outer Shield	3.11	SPC Braid
5	Jacket	3.60	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 18mm
Dynamic Bend Radius： 36mm
Weight：0.033Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 46GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 82%
Shielding Effectiveness： >90dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	37.5	53.4	65.6	93.8	108.9	122.3	136.9	166.7	204.8	255.7
Avg.Power (kW)	0.509	0.358	0.291	0.203	0.175	0.156	0.139	0.115	0.093	0.075
				K1=	1.168470					
				K2=	0.000550					
			Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

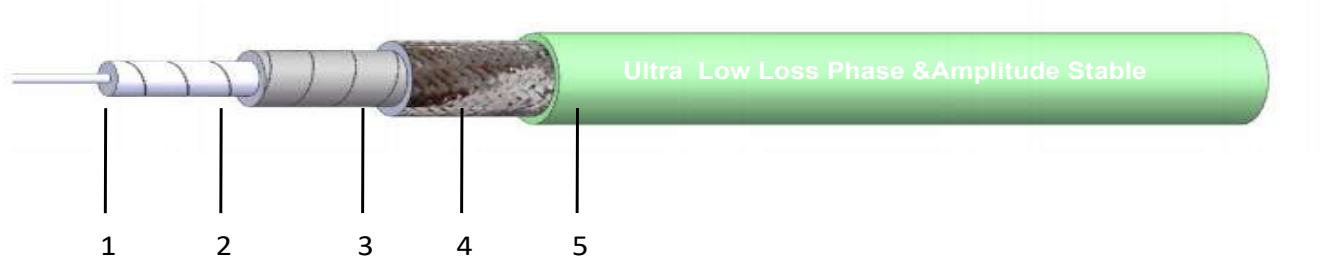
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA400



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.05	Solid SPC
2	Dielectric	2.85	LD-PTFE
3	Outer Conductor	3.05	SPC Strip
4	Outer Shield	3.40	SPC Braid
5	Jacket	4.00	Green PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 20mm
Dynamic Bend Radius： 40mm
Weight：0.036Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 41GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 82%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	33.5	47.5	58.3	82.8	95.8	107.2	119.7	144.7	176.4	218.1
Avg.Power (kW)	0.634	0.447	0.365	0.257	0.222	0.198	0.178	0.147	0.120	0.097
				K1=	1.054470					
				K2=	0.000180					
			Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

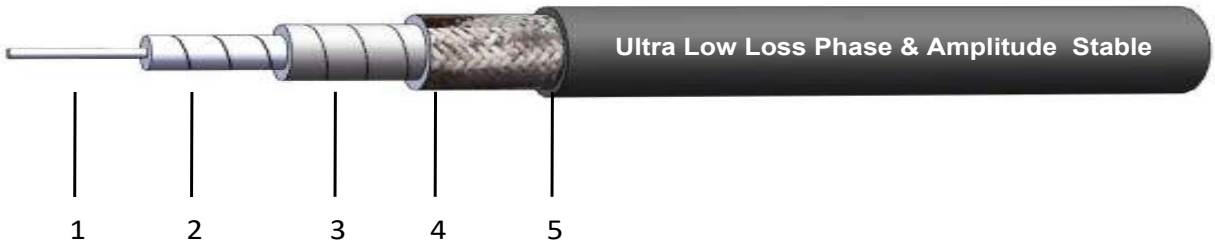
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA480



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.40	Solid SPC
2	Dielectric	3.80	LD-PTFE
3	Outer Conductor	3.95	SPC Strip
4	Outer Shield	4.35	SPC Braid
5	Jacket	4.80	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 24mm
Dynamic Bend Radius： 48mm
Weight：0.055Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 31GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	24.1	34.2	42.1	60.1	69.7	78.3	87.6	106.6	130.8
Avg.Power (kW)	0.919	0.646	0.525	0.368	0.317	0.282	0.252	0.207	0.169
				K1=	0.750400				
				K2=	0.000328				
			Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

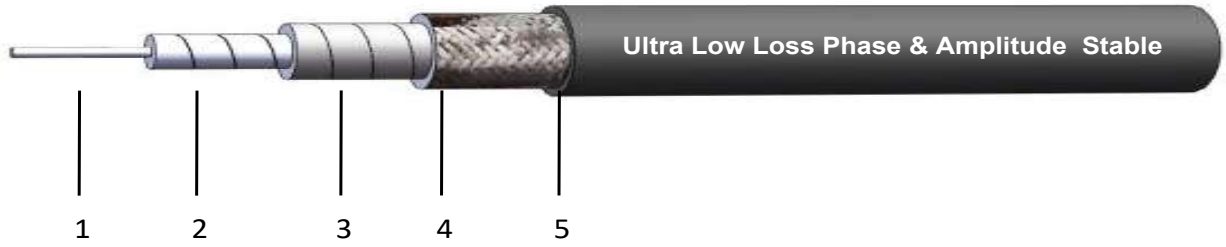
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA480-B



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.30	Solid SPC
2	Dielectric	3.58	LD-PTFE
3	Outer Conductor	3.73	SPC Strip
4	Outer Shield	4.27	SPC Braid
5	Jacket	4.83	Yellow FEP or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 24mm
Dynamic Bend Radius： 48mm
Weight：0.050Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 33GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	25.2	36.0	44.4	63.8	74.3	83.7	94.0	115.1	142.4
Avg.Power (kW)	0.749	0.525	0.425	0.296	0.254	0.225	0.201	0.164	0.133
				K1=	0.778394				
				K2=	0.000591				
			Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

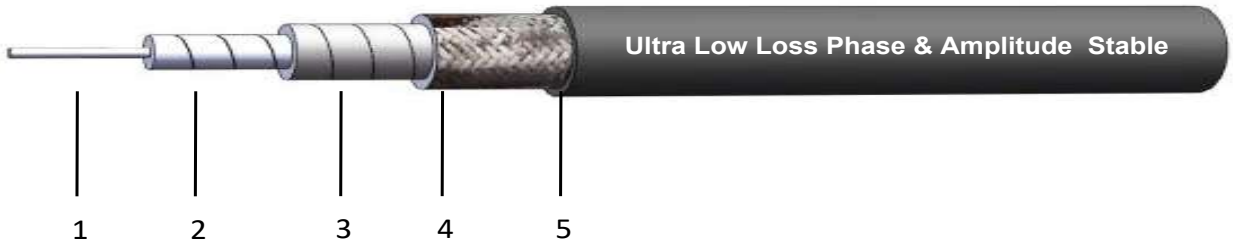
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.45	Solid SPC
2	Dielectric	3.99	LD-PTFE
3	Outer Conductor	4.19	SPC Strip
4	Outer Shield	4.60	SPC Braid
5	Jacket	5.20	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 26mm
Dynamic Bend Radius： 52mm
Weight：0.060Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 29GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	23.4	33.3	41.0	58.5	67.9	76.3	85.4	103.8	127.5
Avg. Power (kW)	0.919	0.646	0.525	0.368	0.317	0.282	0.252	0.207	0.169
				K1=	0.730000				
				K2=	0.000328				
			Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

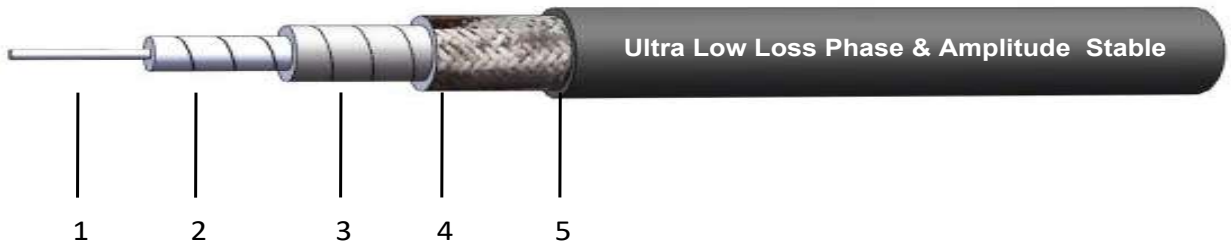
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA550



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.60	Solid SPC
2	Dielectric	4.30	LD-PTFE
3	Outer Conductor	4.50	SPC Strip
4	Outer Shield	5.10	SPC Braid
5	Jacket	5.60	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 28mm
Dynamic Bend Radius： 56mm
Weight： 0.075Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 26.5GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	22.3	31.6	38.8	55.0	63.6	71.2	79.5	90.5	96.1
Avg.Power (kW)	1.024	0.723	0.589	0.415	0.359	0.320	0.287	0.252	0.238
				K1=	0.701472				
				K2=	0.000110				
			Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

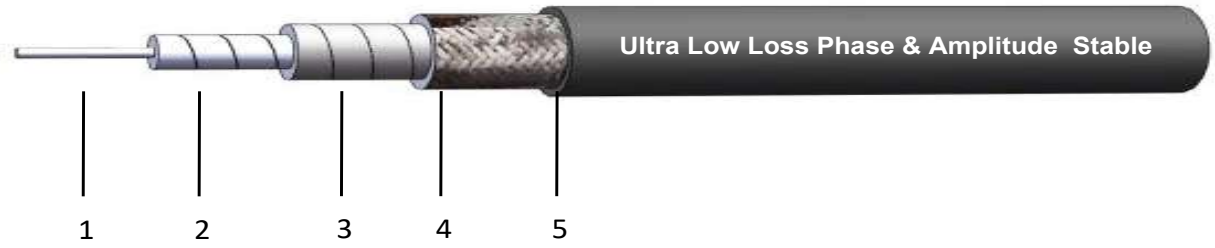
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA600



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.70	Solid SPC
2	Dielectric	4.60	LD-PTFE
3	Outer Conductor	4.80	SPC Strip
4	Outer Shield	5.30	SPC Braid
5	Jacket	6.00	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 30mm
Dynamic Bend Radius： 60mm
Weight：0.079Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 25GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	20.0	28.5	35.2	50.6	58.9	66.4	74.5	85.5	91.2
Avg. Power (kW)	1.159	0.812	0.658	0.457	0.393	0.349	0.311	0.270	0.254
				K1=	0.616197				
				K2=	0.000475				
			Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

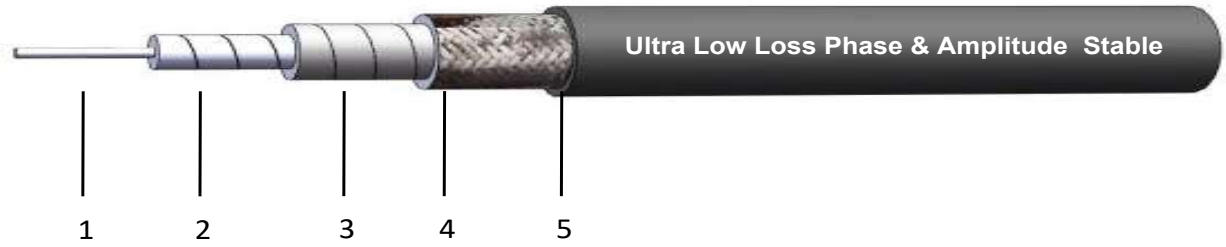
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA750



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.10	Solid SPC
2	Dielectric	5.70	LD-PTFE
3	Outer Conductor	5.95	SPC Strip
4	Outer Shield	6.60	SPC Braid
5	Jacket	7.40	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 37mm
Dynamic Bend Radius： 74mm
Weight：0.116Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 20GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	16.7	23.7	29.1	41.4	47.9	53.7	59.9	68.2	72.5
Avg. Power (kW)	1.740	1.227	1.000	0.704	0.608	0.543	0.487	0.427	0.402
				K1=	0.526279				
				K2=	0.000104				
			Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

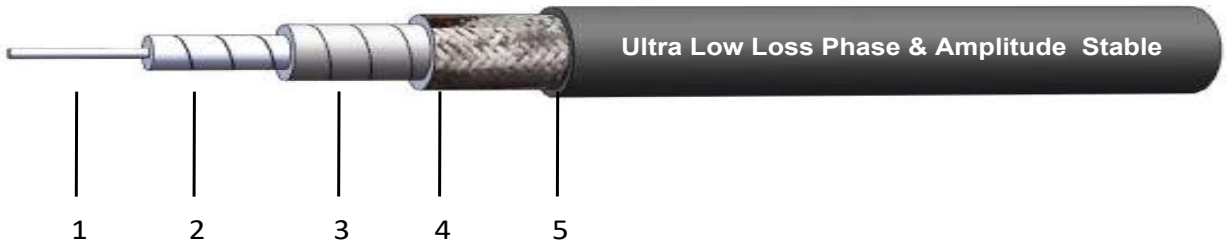
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA760S



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.39	Stranded SPC
2	Dielectric	6.25	LD-PTFE
3	Outer Conductor	6.49	SPC Strip
4	Outer Shield	7.06	SPC Braid
5	Jacket	7.65	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 38mm
Dynamic Bend Radius： 76mm
Weight：0.120Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 18GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	16.7	23.8	29.3	42.1	48.9	55.0	61.7	70.7	75.3
Avg.Power (kW)	1.604	1.125	0.913	0.637	0.548	0.487	0.435	0.379	0.356
				K1=	0.518300				
				K2=	0.000320				
			Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

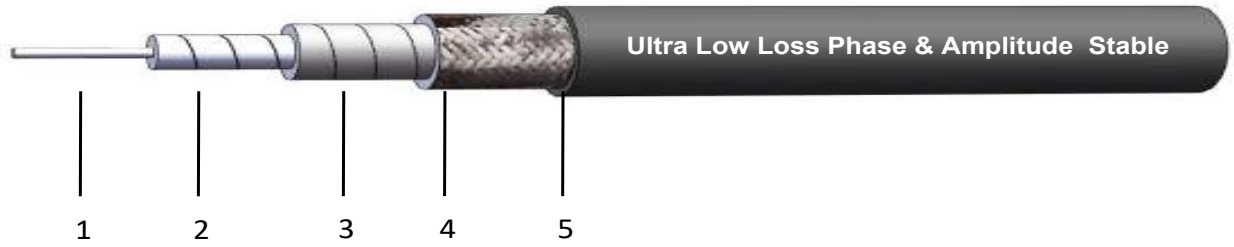
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA800



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.30	Solid SPC
2	Dielectric	6.20	LD-PTFE
3	Outer Conductor	6.44	SPC Strip
4	Outer Shield	7.05/7.20	SPC Braid
5	Jacket	7.90	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 39mm
Dynamic Bend Radius： 79mm
Weight：0.130Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 18GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	14.7	21.0	26.0	37.3	43.4	48.8	54.8	62.8	67.0
Avg. Power (kW)	1.812	1.270	1.030	0.717	0.616	0.547	0.488	0.425	0.399
				K1=	0.456300				
				K2=	0.000320				
			Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

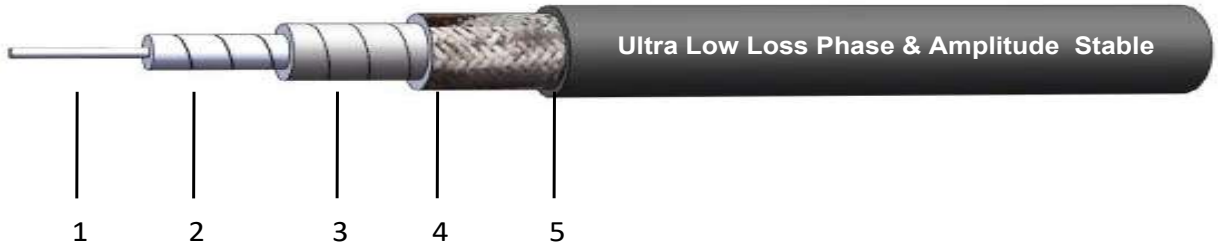
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA810



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.40	Solid SPC
2	Dielectric	6.36	LD-PTFE
3	Outer Conductor	6.60	SPC Strip
4	Outer Shield	7.10	SPC Braid
5	Jacket	8.10	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 40mm
Dynamic Bend Radius： 81mm
Weight：0.140Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 18GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	13.7	19.5	24.1	34.8	40.6	45.8	51.5	59.3	63.3
Avg. Power (kW)	1.894	1.324	1.071	0.743	0.636	0.564	0.502	0.436	0.409
				K1=	0.419490				
				K2=	0.000389				
			Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

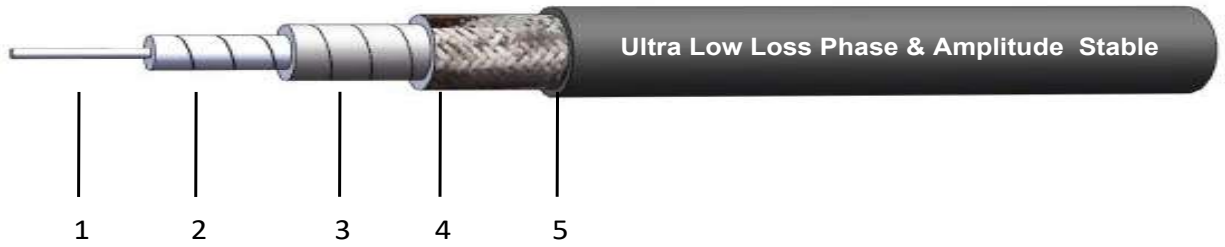
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

■ STA Series Low loss Phase & Amplitude Stable Cable

STA830



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.44	Solid SPC
2	Dielectric	6.50	LD-PTFE
3	Outer Conductor	6.90	SPC Strip
4	Outer Shield	7.65	SPC Braid
5	Jacket	8.30	Grey FEP or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 41mm
Dynamic Bend Radius： 83mm
Weight：0.162Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 18GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	13.3	18.9	23.4	33.6	39.1	44.1	49.5	56.9	60.6
Avg.Power (kW)	1.894	1.326	1.075	0.747	0.641	0.569	0.507	0.442	0.414
				K1=	0.408997				
				K2=	0.000320				
			Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

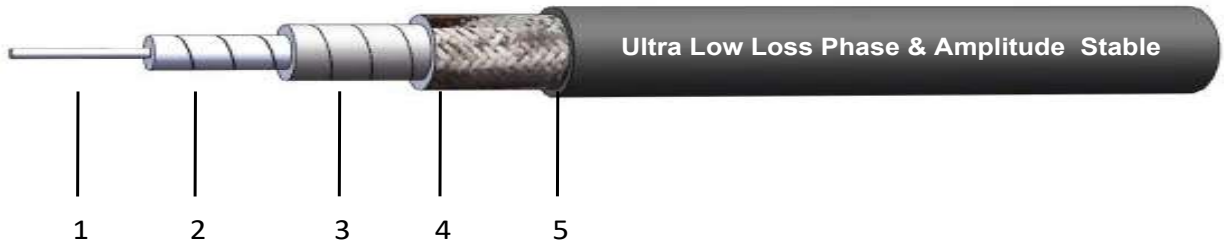
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA1000



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	3.00	Solid SPC
2	Dielectric	8.24	LD-PTFE
3	Outer Conductor	-	SPC Strip
4	Outer Shield	9.20	SPC Braid
5	Jacket	10.00	Grey FEP or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 41mm
Dynamic Bend Radius： 83mm
Weight：0.206Kg/m
Installation &Operating Temperature Range： -55℃~+105℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 13.5GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 3000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	4000	5000	6000	8000	10000
Attenuation(dB/100m	10.4	15.0	18.7	21.8	24.6	27.2	31.9	36.1
Avg. Power (kW)	2.289	1.590	1.281	1.097	0.972	0.880	0.750	0.662
				K1=	0.316177			
				K2=	0.000448			
		Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

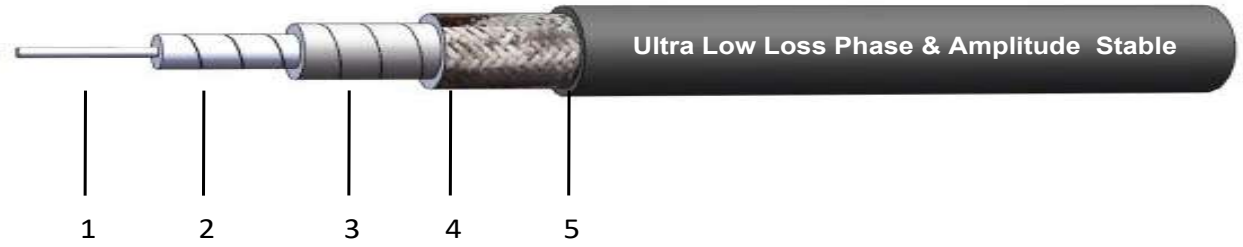
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA Series Low loss Phase & Amplitude Stable Cable

STA1200



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	3.80	Solid SPC
2	Dielectric	10.30	LD-PTFE
3	Outer Conductor	-	SPC Strip
4	Outer Shield	11.35	SPC Braid
5	Jacket	12.00	Grey FEP or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 60mm
Dynamic Bend Radius： 120mm
Weight：0.282Kg/m
Installation &Operating Temperature Range： -55℃~+105℃

Electrical Specifications

Frequency Range： 8GTLZ
Cutoff Frequency： 11GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 3000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	4000	5000	6000	7000	8000
Attenuation(dB/100m)	10.0	14.4	18.0	21.0	23.8	26.3	28.7	31.0
Avg. Power (kW)	2.320	1.605	1.289	1.101	0.973	0.879	0.806	0.747
				K1=	0.298565			
				K2=	0.000535			
		Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

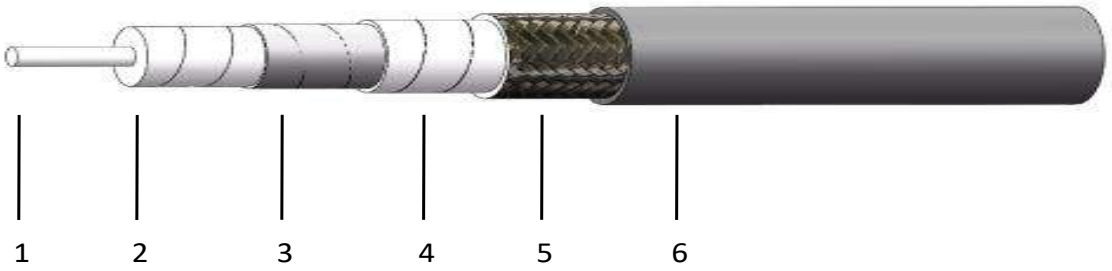
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

■ ST**A-W Series** Enhanced Low loss Phase & Amplitude Stable Cable

STA360-HY



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	Solid SPC
2	Dielectric	2.50	LD-PTFE
3	Inner Shield	2.66	SPC Strip
4	Interlayer	2.95	LD-PTFE
5	Outer Shield	3.35	SPC Braid
6	Jacket	3.90	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 18mm
Dynamic Bend Radius： 36mm
Weight：0.035Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 46GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 82%
Shielding Effectiveness： >90dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	37.5	53.4	65.6	93.8	108.9	122.3	136.9	166.7	204.8	255.7
Avg.Power (kW)	0.509	0.358	0.291	0.203	0.175	0.156	0.139	0.115	0.093	0.075
				K1=	1.168470					
				K2=	0.000550					
			Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

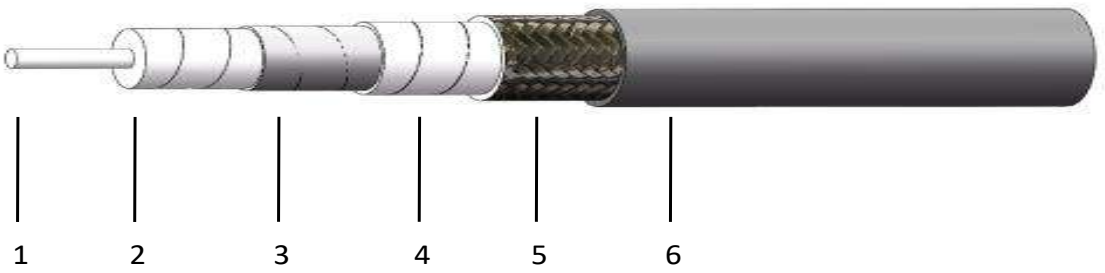
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

■ STA-W Series Enhanced Low loss Phase & Amplitude Stable Cable

STA400-HY



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.05	Solid SPC
2	Dielectric	2.85	LD-PTFE
3	Inner Shield	3.05	SPC Strip
4	Interlayer	3.30	LD-PTFE
5	Outer Shield	3.65	SPC Braid
6	Jacket	4.20	Green FEP or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 20mm
Dynamic Bend Radius： 40mm
Weight：0.057Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 41GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 82%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	33.5	47.5	58.3	82.8	95.8	107.2	119.7	144.7	176.4	218.1
Avg.Power (kW)	0.634	0.447	0.365	0.257	0.222	0.198	0.178	0.147	0.120	0.097
				K1=	1.054470					
				K2=	0.000180					
			Calculation=		K1*√FMhz+K2*FMHz					

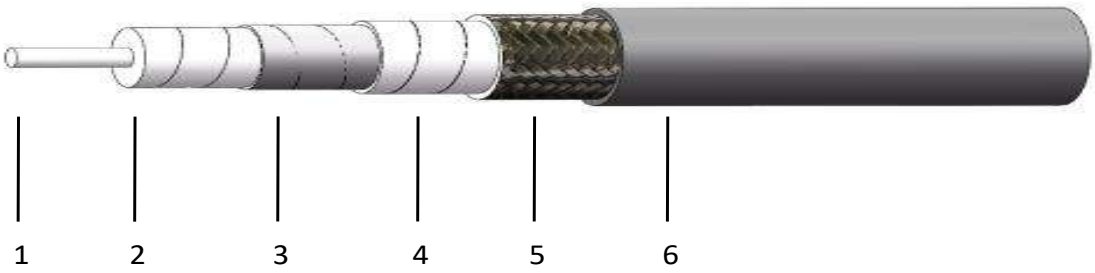
Features & Advantages

Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA480-HY



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.40	Solid SPC
2	Dielectric	3.80	LD-PTFE
3	Inner Shield	3.95	SPC Strip
4	Interlayer	4.20	LD-PTFE
5	Outer Shield	4.65	SPC Braid
6	Jacket	5.10	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 24mm
Dynamic Bend Radius： 48mm
Weight：0.058Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 31GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	24.1	34.2	42.1	60.1	69.7	78.3	87.6	106.6	130.8
Avg.Power (kW)	0.919	0.646	0.525	0.368	0.317	0.282	0.252	0.207	0.169
				K1=	0.750400				
				K2=	0.000328				
			Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

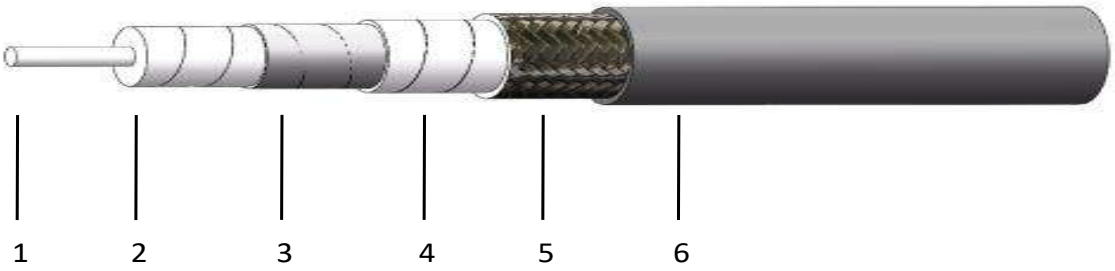
Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA-W Series Enhanced Low loss Phase & Amplitude Stable Cable

STA500-HY



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.45	Solid SPC
2	Dielectric	3.99	LD-PTFE
3	Inner Shield	4.19	SPC Strip
4	Interlayer	4.45	LD-PTFE
5	Outer Shield	4.85	SPC Braid
6	Jacket	5.40	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 26mm
Dynamic Bend Radius： 52mm
Weight：0.063Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 29GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	23.4	33.3	41.0	58.5	67.9	76.3	85.4	103.8	127.5
Avg.Power (kW)	0.919	0.646	0.525	0.368	0.317	0.282	0.252	0.207	0.169
				K1=	0.730000				
				K2=	0.000328				
			Calculation=	K1*√FMhz+K2*FMHz					

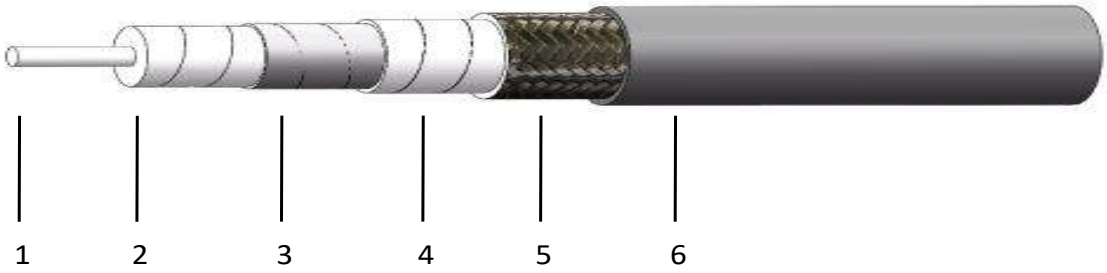
Features & Advantages

Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STA750-HY



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.10	Solid SPC
2	Dielectric	5.70	LD-PTFE
3	Inner Shield	5.95	SPC Strip
4	Interlayer	6.20	LD-PTFE
5	Outer Shield	6.80	SPC Braid
6	Jacket	7.60	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 37mm
Dynamic Bend Radius： 74mm
Weight：0.118035Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 20GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	16.7	23.7	29.1	41.4	47.9	53.7	59.9	68.2	72.5
Avg. Power (kW)	1.740	1.227	1.000	0.704	0.608	0.543	0.487	0.427	0.402
				K1=	0.526279				
				K2=	0.000104				
			Calculation=	K1*√FMhz+K2*FMHz					

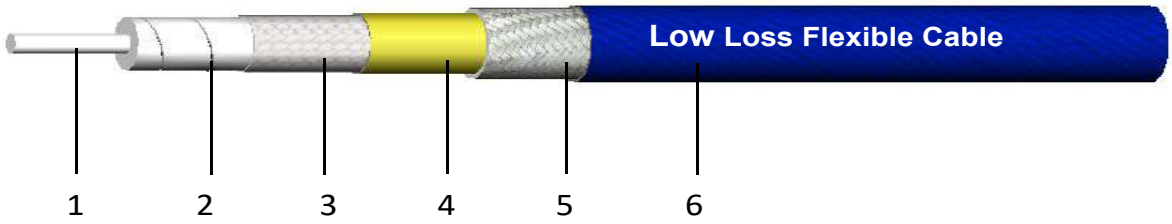
Features & Advantages

Phase Change vs Temperature（<750PPM@-55℃-+85℃）
Low Loss
High Power
Low Passive Intermodulation （-155dbc）
Light Weight

Typical Applications

Phased Array Radar
Aviation Electronics
Electronic Confrontation
On Any Low Loss & Phase Occasions

STB460



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	Solid SPC
2	Dielectric	2.50	LD-PTFE
3	Inner Shield	2.66	SPC Strip
4	Interlayer	2.95	Aluminum Foil
5	Outer Shield	3.35	SPC Braid
6	Jacket	3.90	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 23mm
Dynamic Bend Radius： 46mm
Weight： 0.053Kg/m
Installation &Operating Temperature Range： -55℃~+200℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 35GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	35.4	50.4	62.0	88.8	103.2	116.0	129.9	148.7	158.3
Avg.Power (kW)	0.569	0.400	0.324	0.227	0.195	0.174	0.155	0.135	0.127
				K1=	1.099485				
				K2=	0.000602				
			Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

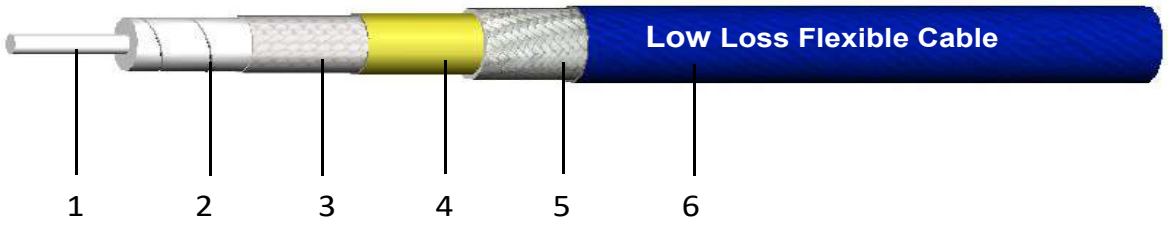
Low Loss
High Power
Low Passive Intermodulation（-155dbc）
Cost-effective
Tensile Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
High Power Transmission
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STB Series High Power Low Loss Cable

STB520



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.29	Solid SPC
2	Dielectric	3.91	LD-PTFE
3	Inner Shield	4.15	SPC Strip
4	Interlayer	4.28	Aluminum Foil
5	Outer Shield	4.85	SPC Braid
6	Jacket	5.20	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 26mm
Dynamic Bend Radius： 52mm
Weight：0.067Kg/m
Installation &Operating Temperature Range： -55℃~+200℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 28GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	27.7	39.5	48.7	69.9	81.3	91.5	102.7	117.8	125.5
Avg.Power (kW)	0.750	0.526	0.426	0.297	0.255	0.227	0.202	0.176	0.165
			K1=	0.856234					
			K2=	0.000591					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

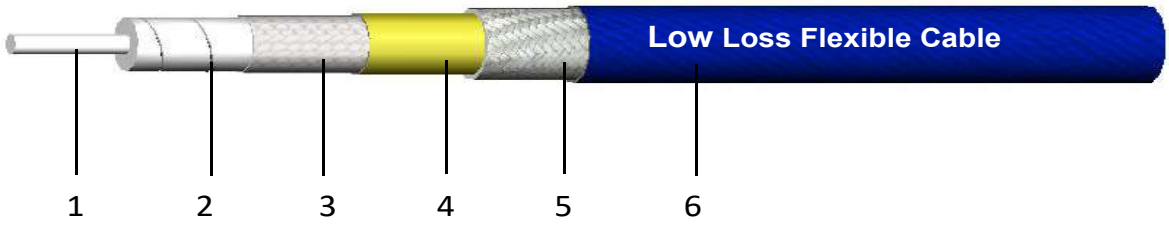
Low Loss
High Power
Low Passive Intermodulation（-155dbc）
Cost-effective
Tensile Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
High Power Transmission
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STB Series High Power Low Loss Cable

STB635



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.57	Solid SPC
2	Dielectric	4.27	LD-PTFE
3	Inner Shield	4.96	SPC Strip
4	Interlayer	5.10	Aluminum Foil
5	Outer Shield	5.66	SPC Braid
6	Jacket	6.35	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 31mm
Dynamic Bend Radius： 63mm
Weight：0.093Kg/m
Installation &Operating Temperature Range： -55℃~+200℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 27GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	22.2	31.7	39.2	56.4	65.8	74.2	83.4	95.8	102.2
Avg.Power (kW)	1.020	0.713	0.577	0.401	0.344	0.305	0.271	0.236	0.221
				K1=	0.682743				
				K2=	0.000591				
			Calcualtion=	K1*√FMhz+K2*FMHz					

Features & Advantages

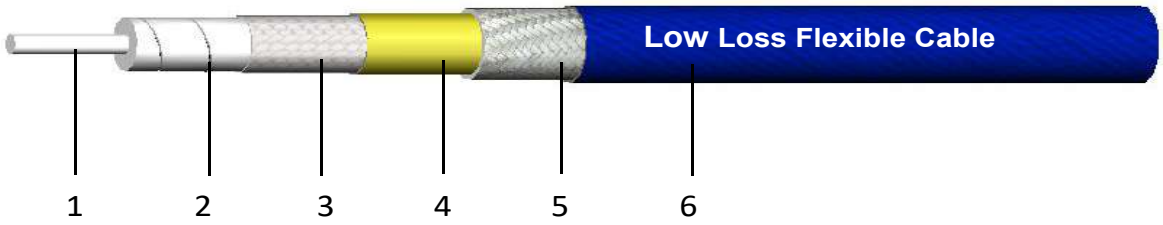
Low Loss
High Power
Low Passive Intermodulation（-155dbc）
Cost-effective
Tensile Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
High Power Transmission
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STB Series High Power Low Loss Cable

STB800



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.06	Solid SPC
2	Dielectric	5.89	LD-PTFE
3	Inner Shield	6.05	SPC Strip
4	Interlayer	6.17	Aluminum Foil
5	Outer Shield	6.81	SPC Braid
6	Jacket	7.62	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 38mm
Dynamic Bend Radius： 76mm
Weight：0.130Kg/m
Installation &Operating Temperature Range： -55℃~+200℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 19GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 78%
Shielding Effectiveness： >90dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	17.6	25.2	31.2	45.1	52.7	59.5	67.1	77.3	82.6
Avg.Power (kW)	1.530	1.098	0.887	0.613	0.524	0.464	0.412	0.358	0.335
				K1=	0.536417				
				K2=	0.000591				
			Calculation=	K1*√FMhz+K2*FMHz					

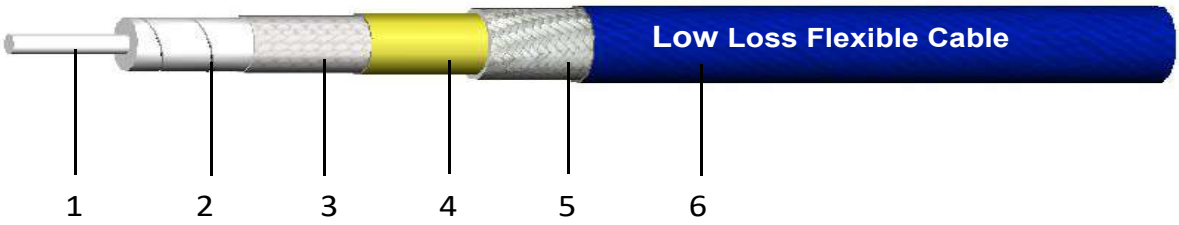
Features & Advantages

Low Loss
High Power
Low Passive Intermodulation（-155dbc）
Cost-effective
Tensile Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
High Power Transmission
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STB1000



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.44	Solid SPC
2	Dielectric	7.24	LD-PTFE
3	Inner Shield	7.48	SPC Strip
4	Interlayer	7.61	Aluminum Foil
5	Outer Shield	8.19	SPC Braid
6	Jacket	9.30	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 51mm
Dynamic Bend Radius： 100mm
Weight：0.193Kg/m
Installation &Operating Temperature Range： -55℃~+200℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 15GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	4000	6000	7000	8000	9000	10000
Attenuation(dB/100m	14.7	21.1	26.2	30.6	38.2	41.5	44.7	47.7	50.6
Avg.Power (kW)	1.839	1.279	1.031	0.883	0.709	0.651	0.605	0.567	0.534
			K1=	0.446080					
			K2=	0.000600					
		Calculation=	K1*√FMhz+K2*FMHz						

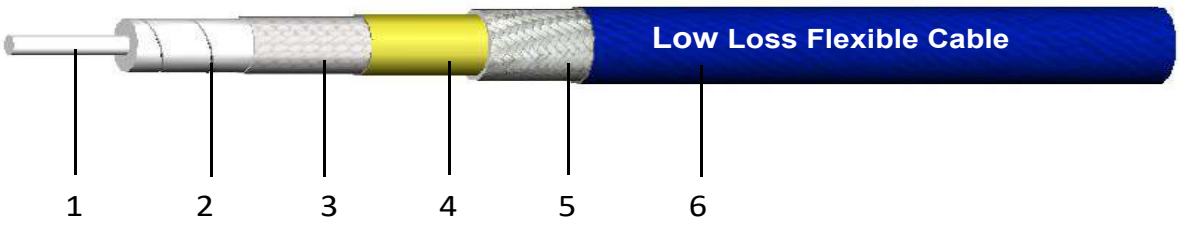
Features & Advantages

Low Loss
High Power
Low Passive Intermodulation（-155dbc）
Cost-effective
Tensile Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
High Power Transmission
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STB1200



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	3.50	Solid SPC
2	Dielectric	9.90	LD-PTFE
3	Inner Shield	10.17	SPC Strip
4	Interlayer	10.30	Aluminum Foil
5	Outer Shield	11.02	SPC Braid
6	Jacket	12.00	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 60mm
Dynamic Bend Radius： 120mm
Weight：0.300Kg/m
Installation &Operating Temperature Range： -55℃~+200℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 11GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 3000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	4000	5000	6000	7000	8000	10000
Attenuation(dB/100m)	13.0	18.7	23.3	27.2	30.7	33.9	37.0	39.8	45.2
Avg.Power (kW)	2.590	1.797	1.446	1.238	1.096	0.991	0.910	0.844	0.745
			K1=	0.391680					
			K2=	0.000600					
		Calcualtion=		K1*√FMhz+K2*FMHz					

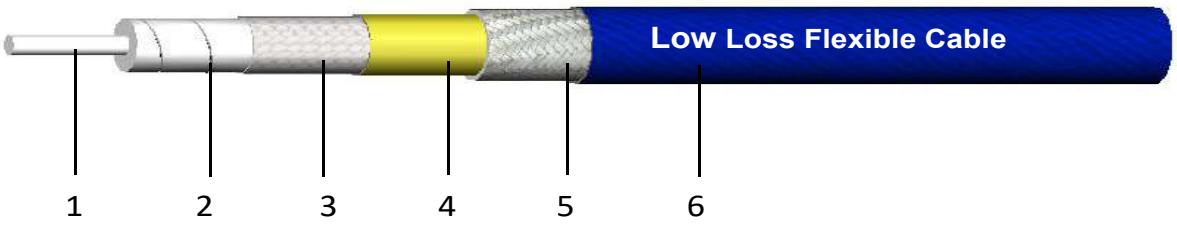
Features & Advantages

Low Loss
High Power
Low Passive Intermodulation（-155dbc）
Cost-effective
Tensile Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
High Power Transmission
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STB1500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	4.40	Solid SPC
2	Dielectric	12.50	LD-PTFE
3	Inner Shield	12.82	SPC Strip
4	Interlayer	12.95	Aluminum Foil
5	Outer Shield	13.67	SPC Braid
6	Jacket	14.70	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 76mm
Dynamic Bend Radius： 150mm
Weight：0.432Kg/m
Installation &Operating Temperature Range： -55℃~+200℃

Electrical Specifications

Frequency Range： 6GTLZ
Cutoff Frequency： 8GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 4000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	100	300	500	800	1000	2000	3000	5000	6000
Attenuation(dB/100m)	3.1	5.4	7.1	9.1	10.2	14.8	18.4	24.5	27.1
Avg. Power (kW)	13.44	7.650	5.870	4.590	4.080	2.818	2.260	1.703	1.537
				K1=	0.304208				
				K2=	0.000591				
			Calculation=	K1*√FMhz+K2*FMHz					

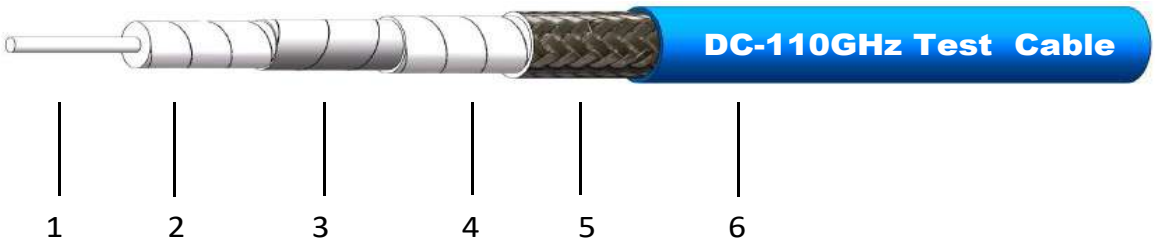
Features & Advantages

Low Loss
High Power
Low Passive Intermodulation（-155dbc）
Cost-effective
Tensile Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
High Power Transmission
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STC150



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.31	Solid SPC
2	Dielectric	0.88	LD-PTFE
3	Inner Shield	1.00	SPC Strip
4	Interlayer	1.20	LD-PTFE
5	Outer Shield	1.45	SPC Braid
6	Jacket	1.85	Grey PFA or Custom

Mechanical & Environmental Specifications

Static Bend Radius：10mm
Dynamic Bend Radius：20mm
Weight：0.008Kg/m
Installation &Operating Temperature Range：-55℃~+125℃

Electrical Specifications

Frequency Range： 110GTLZ
Cutoff Frequency： 128GTLZ
Characteristic Impedance：50Ω
Velocity of Propagation：80%
Shielding Effectiveness：>90dB
Voltage Power：400V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	18000	26500	40000	67000	75000	110000
Attenuation(dB/100m	113.7	161.6	198.5	282.9	328.0	499.3	611.5	760.4	1002.7	1065.9	1314.3
Avg.Power (kW)	0.039	0.027	0.022	0.016	0.014	0.009	0.007	0.006	0.004	0.004	0.003
			K1=	3.557846							
			K2=	0.001221							
		Calculation=		K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull Resistance

Typical Applications

Aviation Electronics

Electronic Confrontation

Laboratory Test

RF Microwaves Device Test

STC150-KJ

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1-6	TLC220 Cable	1.85	FEP
7-8	Protect Layer	2.70	SPC
9-10	Jacket	3.84	PTFE

Mechanical & Environmental Specifications

Frequency Range： DC-110GTLZ

VSWR:≤1.5@110GTLZ

Repeated bending： 50,000 times

Temperature Range： -55℃~+125℃

Electrical Specifications

Static Bend Radius： 30mm

Dynamic Bend Radius： 50mm

Mechanical Phase： ±10°

Amplitude Stability： ±0.1dB

Weight: 0.033Kg/m

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	18000	26500	40000	67000	75000	110000
Attenuation(dB/100m	113.7	161.6	198.5	282.9	328.0	499.3	611.5	760.4	1002.7	1065.9	1314.3
Avg.Power (kW)	0.039	0.027	0.022	0.016	0.014	0.009	0.007	0.006	0.004	0.004	0.003
			K1=	3.557846							
			K2=	0.001221							
		Calculation=		K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

Typical Applications

Laboratory Test

Anechoic Chambers

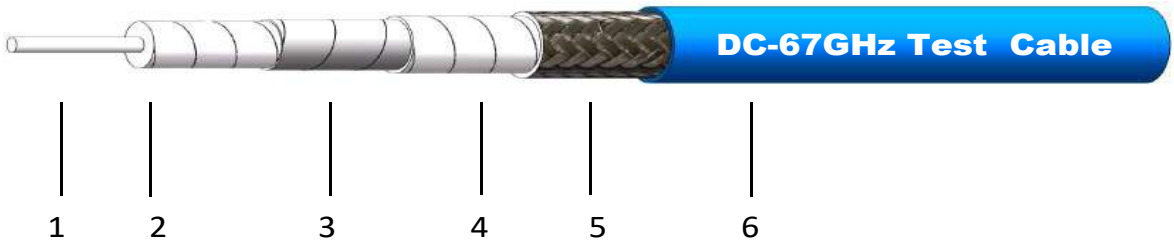
System Test

High-Precision Instruments Test

On-site Testing and Measurement

STC Series High Precision Test Cable

STC220



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.50	Solid SPC
2	Dielectric	1.38	LD-PTFE
3	Inner Shield	1.54	SPC Strip
4	Interlayer	1.82	LD-PTFE
5	Outer Shield	2.17	SPC Braid
6	Jacket	2.40	Blue FEP or Custom

Mechanical & Environmental Specifications

Static Bend Radius： 12mm
Dynamic Bend Radius： 24mm
Weight： 0.016Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 67GTLZ
Cutoff Frequency： 82GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 81%
Shielding Effectiveness： >90dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000	67000
Attenuation(dB/100m)	63.7	90.8	111.9	160.4	186.5	209.8	235.2	287.1	354.0	444.0	593.2
Avg. Power (kW)	0.097	0.068	0.055	0.039	0.033	0.029	0.026	0.022	0.017	0.014	0.010
			K1=	1.975832							
			K2=	0.001221							
		Calculation=	K1*√FMhz+K2*FMHz								

Features & Advantages

Low Loss
Low VSWR
Bending, Shake, Torsion & Pull Resistance

Typical Applications

Aviation Electronics
Electronic Confrontation
Laboratory Test
RF Microwaves Device Test

STC220-KJ

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1-6	TLC220 Cable	2.40	FEP
7-8	Protect Layer	3.60	SPC
9-10	Jacket	4.80	PTFE

Mechanical & Environmental Specifications

Frequency Range： DC-67GTLZ

VSWR:≤1.4@67GTLZ

Repeated bending： 100,000 times

Temperature Range： -55℃~+125℃

Electrical Specifications

Static Bend Radius： 30mm

Dynamic Bend Radius： 50mm

Mechanical Phase： ±7°

Amplitude Stability： ±0.1dB

Weight: 0.052Kg/m

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000	67000
Attenuation(dB/100m)	63.7	90.8	111.9	160.4	186.5	209.8	235.2	287.1	354.0	444.0	593.2
Avg.Power (kW)	0.097	0.068	0.055	0.039	0.033	0.029	0.026	0.022	0.017	0.014	0.010
			K1=	1.975832							
			K2=	0.001221							
		Calculation=		K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

Typical Applications

Laboratory Test

Anechoic Chambers

System Test

High-Precision Instruments Test

On-site Testing and Measurement

STC360

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.72	Solid SPC
2	Dielectric	2.10	LD-PTFE
3	Inner Shield	2.25	SPC Strip
4	Interlayer	2.55	LD-PTFE
5	Outer Shield	3.01	SPC Braid
6	Jacket	3.60	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 18mm
Dynamic Bend Radius： 36mm
Weight： 0.031Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 50GTLZ
Cutoff Frequency： 50GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000	50000
Attenuation(dB/100m)	48.1	68.3	83.9	119.4	138.4	155.2	173.4	210.2	257.1	319.2	359.2
Avg.Power (kW)	0.506	0.356	0.290	0.204	0.176	0.157	0.140	0.116	0.095	0.076	0.068
			K1=	1.507808							
			K2=	0.000440							
		Calculation=		K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull Resistance

Typical Applications

Aviation Electronics

Electronic Confrontation

Laboratory Test

RF Microwaves Device Test

STC360-KJ

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1-6	TLC360 Cable	3.60	FEP
7-8	Protect Layer	5.10	SPC
9-10	Jacket	6.10	PTFE

Mechanical & Environmental Specifications

Frequency Range： DC-50GTLZ

VSWR:≤1.35@50GTLZ

Repeated bending： 100,000 times

Temperature Range： -55℃~+125℃

Electrical Specifications

Static Bend Radius： 30mm

Dynamic Bend Radius： 60mm

Mechanical Phase： ±7°

Amplitude Stability： ±0.05dB

Weight: 0.095Kg/m

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000	50000
Attenuation(dB/100m)	48.1	68.3	83.9	119.4	138.4	155.2	173.4	210.2	257.1	319.2	359.2
Avg. Power (kW)	0.506	0.356	0.290	0.204	0.176	0.157	0.140	0.116	0.095	0.076	0.068
			K1=	1.507809							
			K2=	0.000440							
		Caculation=		K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

Typical Applications

Laboratory Test

Anechoic Chambers

System Test

High-Precision Instruments Test

On-site Testing and Measurement

STC Series High Precision Test Cable

STC400

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.02	Solid SPC
2	Dielectric	2.80	LD-PTFE
3	Inner Shield	2.95	SPC Strip
4	Interlayer	3.20	LD-PTFE
5	Outer Shield	3.62	SPC Braid
6	Jacket	4.20	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius：21mm
Dynamic Bend Radius：42mm
Weight：0.040Kg/m
Installation &Operating Temperature Range：-55℃~+165℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 41GTLZ
Characteristic Impedance：50Ω
Velocity of Propagation：81%
Shielding Effectiveness：>90dB
Voltage Power：500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	40.5	57.6	70.8	100.8	116.9	131.2	146.6	178.0	218.0	271.2
Avg.Power (kW)	0.567	0.399	0.325	0.228	0.197	0.175	0.157	0.129	0.105	0.085
			K1=	1.267795						
			K2=	0.000440						
		Calculation=		K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull Resistance

Typical Applications

Aviation Electronics

Electronic Confrontation

Laboratory Test

RF Microwaves Device Test

STC400-KJ

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1-6	TLC220 Cable	4.20	FEP
7-8	Protect Layer	5.75	SPC
9-10	Jacket	6.70	PTFE

Mechanical & Environmental Specifications

Frequency Range： DC-40GTLZ

VSWR:≤1.3@40GTLZ

Repeated bending： 100,000 times

Temperature Range： -55℃~+125℃

Electrical Specifications

Static Bend Radius： 40mm

Dynamic Bend Radius： 70mm

Mechanical Phase： ±7°

Amplitude Stability： ±0.05dB

Weight: 0.110Kg/m

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	40.5	57.6	70.8	100.8	116.9	131.2	146.6	178.0	218.0	271.2
Avg.Power (kW)	0.567	0.399	0.325	0.228	0.197	0.175	0.157	0.129	0.105	0.085
			K1=	1.267795						
			K2=	0.000440						
		Calculation=		K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

Typical Applications

Laboratory Test

Anechoic Chambers

System Test

High-Precision Instruments Test

On-site Testing and Measurement

STC500

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.44	Stranded SPC
2	Dielectric	3.85	LD-PTFE
3	Inner Shield	4.05	SPC Strip
4	Interlayer	4.30	LD-PTFE
5	Outer Shield	4.65	SPC Braid
6	Jacket	5.10	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius：25mm
Dynamic Bend Radius：50mm
Weight：0.055Kg/m
Installation &Operating Temperature Range：-55℃~+165℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 29GTLZ
Characteristic Impedance：50Ω
Velocity of Propagation：82%
Shielding Effectiveness：>90dB
Voltage Power：2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	27.1	38.9	48.1	69.6	81.3	91.9	103.5	127.4	158.8
Avg.Power (kW)	0.821	0.573	0.463	0.320	0.274	0.242	0.215	0.175	0.140
			K1=	0.828800					
			K2=	0.000900					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull Resistance

Typical Applications

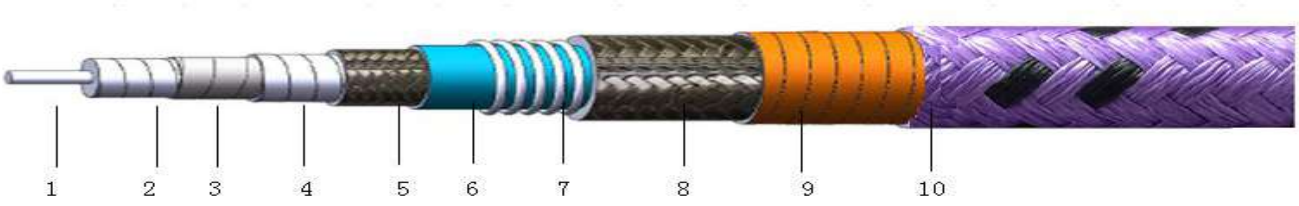
Aviation Electronics

Electronic Confrontation

Laboratory Test

RF Microwaves Device Test

STC500-KJ



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1-6	TLC220 Cable	5.10	FEP
7-8	Protect Layer	6.70	SPC
9-10	Jacket	7.60	PTFE

Mechanical & Environmental Specifications

Frequency Range： DC-26.5GTLZ

VSWR:≤1.25@26.5GTLZ

Repeated bending：600,000 times

Temperature Range： -55℃~+125℃

Electrical Specifications

Static Bend Radius： 50mm

Dynamic Bend Radius： 80mm

Mechanical Phase：±5°

Amplitude Stability：±0.05dB

Weight: 0.135Kg/m

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	27.1	38.9	48.1	69.6	81.3	91.9	103.5	127.4	158.8
Avg.Power (kW)	0.821	0.573	0.463	0.320	0.274	0.242	0.215	0.175	0.140
			K1=	0.828800					
			K2=	0.000900					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

Typical Applications

Laboratory Test

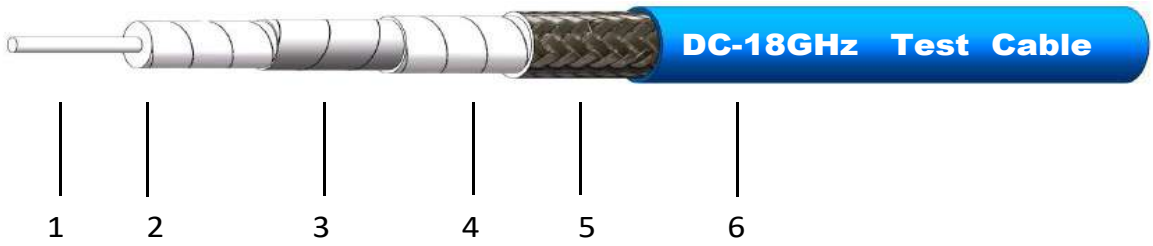
Anechoic Chambers

System Test

High-Precision Instruments Test

On-site Testing and Measurement

STC800



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.39	Solid SPC
2	Dielectric	6.16	LD-PTFE
3	Inner Shield	6.40	SPC Strip
4	Interlayer	6.70	LD-PTFE
5	Outer Shield	7.25	SPC Braid
6	Jacket	7.80	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 40mm
Dynamic Bend Radius： 80mm
Weight： 0.123Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 18 GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 82%
Shielding Effectiveness： >90dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	16.7	23.8	29.3	42.1	48.9	55.0	61.7	75.3
Avg. Power (kW)	1.604	1.125	0.913	0.637	0.548	0.487	0.435	0.356
			K1=	0.518300				
			K2=	0.000320				
		Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull Resistance

Typical Applications

Aviation Electronics

Electronic Confrontation

Laboratory Test

RF Microwaves Device Test

STC800-KJ

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1-6	TLC220 Cable	7.80	FEP
7-8	Protect Layer	9.45	SPC
9-10	Jacket	10.40	PTFE

Mechanical & Environmental Specifications

Frequency Range： DC-18GTLZ

VSWR:≤1.25@18GTLZ

Repeated bending： 200,000 times

Temperature Range： -55℃~+125℃

Electrical Specifications

Static Bend Radius： 50mm

Dynamic Bend Radius： 80mm

Mechanical Phase： ±3°

Amplitude Stability： ±0.05dB

Weight: 0.220Kg/m

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	16.7	23.8	29.3	42.1	48.9	55.0	61.7	75.3
Avg. Power (kW)	1.602	1.124	0.912	0.636	0.547	0.486	0.434	0.356
			K1=	0.518300				
			K2=	0.000320				
		Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

Typical Applications

Laboratory Test

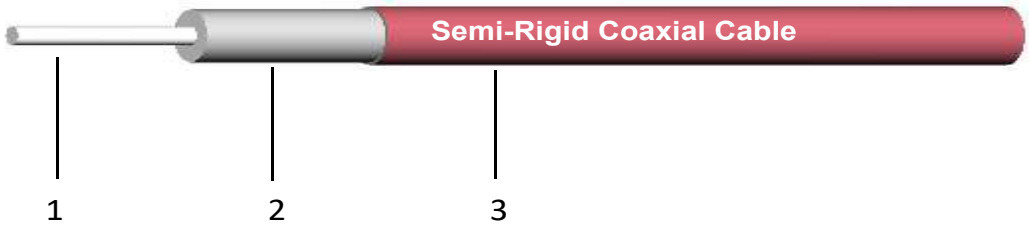
Anechoic Chambers

System Test

High-Precision Instruments Test

On-site Testing and Measurement

STD020



Cable Construction Specifications

	Description	Dimensions（mm）	Materials
1	Inner Conductor	0.127	SPC
2	Dielectric	0.432	PTFE
3	Outer Conductor	0.580	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 1.27mm
Weight： 0.002Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 240GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	2.4	3.4	4.2	6.0	6.9	7.8	8.7	10.6	13.0	16.2
Avg.Power (kW)	0.034	0.024	0.019	0.014	0.012	0.010	0.009	0.008	0.006	0.005
			K1=	0.075016						
			K2=	0.000029						
		Calculation=	K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

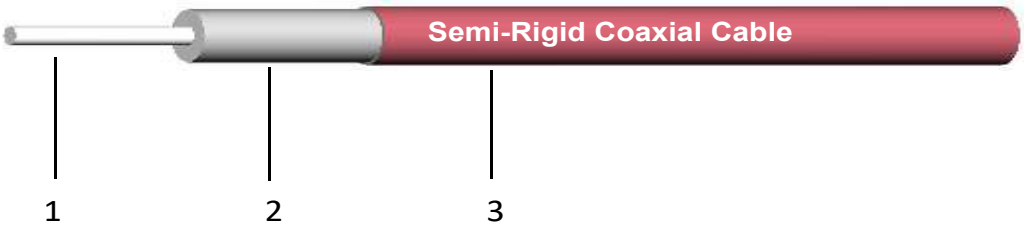
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STD034



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	0.203	SPC
2	Dielectric	0.660	PTFE
3	Outer Conductor	0.864	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 1.60mm
Weight： 0.003g/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 154GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	1.6	2.2	2.8	4.0	4.6	5.2	5.8	7.1	8.7	11.0
Avg. Power (kW)	0.056	0.039	0.032	0.022	0.019	0.017	0.015	0.012	0.010	0.008
			K1=	0.049002						
			K2=	0.000029						
		Calculation=		K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

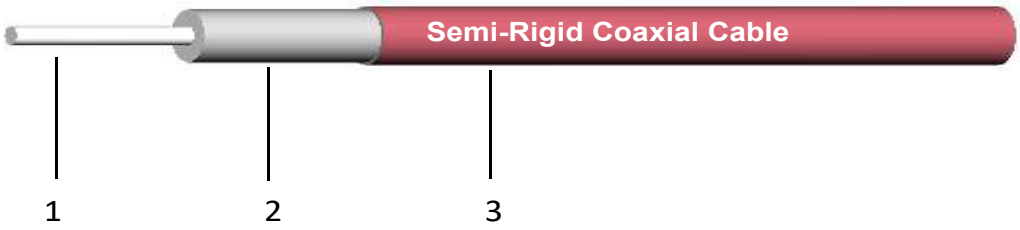
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STD047



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	0.29	SPC
2	Dielectric	0.95	PTFE
3	Outer Conductor	1.22	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 4.2mm
Weight： 0.004Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 100GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	1.1	1.6	2.0	2.9	3.4	3.8	4.3	5.2	6.5	8.2
Avg. Power (kW)	0.059	0.041	0.033	0.023	0.020	0.018	0.016	0.013	0.010	0.008
			K1=	0.035016						
			K2=	0.000029						
		Calculation=	K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

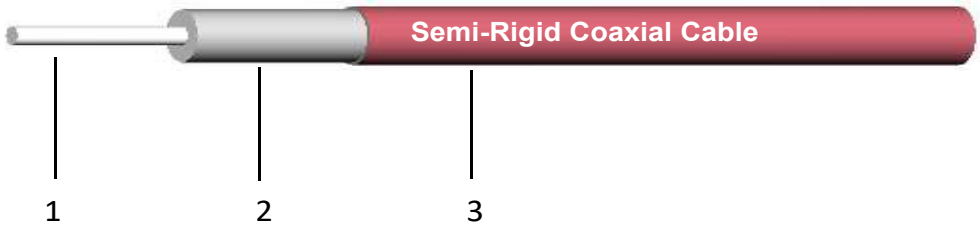
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STD086



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	0.53	SPC
2	Dielectric	1.68	PTFE
3	Outer Conductor	2.18	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 7mm
Weight： 0.021Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 59GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 150V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	64.9	93.1	115.2	166.6	194.7	219.9	247.6	304.9	379.9	482.7
Avg.Power (kW)	0.256	0.179	0.144	0.100	0.085	0.076	0.067	0.055	0.044	0.034
			K1=	1.985320						
			K2=	0.002140						
		Calculation=	K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

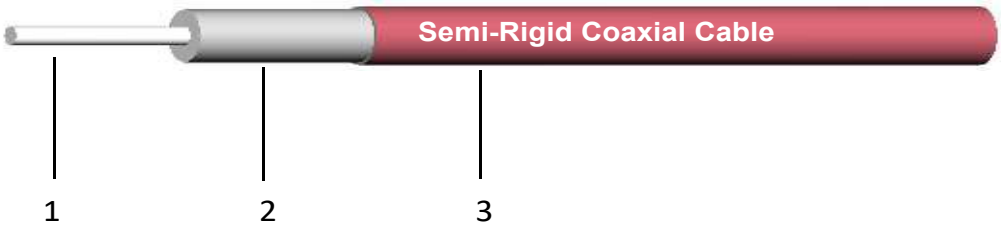
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STD141



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	0.94	SPC
2	Dielectric	2.98	PTFE
3	Outer Conductor	3.58	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 15mm
Weight： 0.047Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 34GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）

Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	38.2	55.5	69.3	102.4	120.8	137.7	156.4	195.9	249.2
Avg.Power (kW)	0.335	0.231	0.185	0.125	0.106	0.093	0.082	0.065	0.051
			K1=	1.131702					
			K2=	0.002450					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

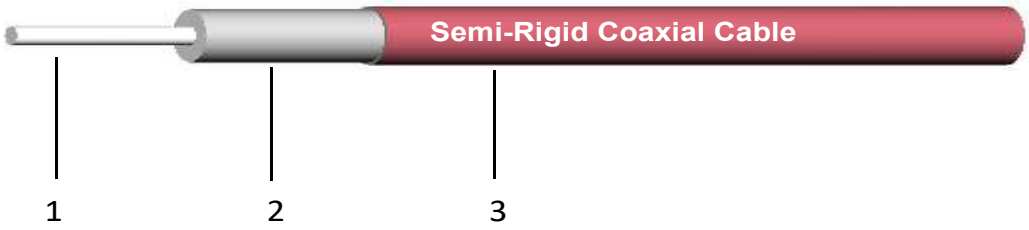
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STD250



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	1.63	SPC
2	Dielectric	5.28	PTFE
3	Outer Conductor	6.35	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 30mm
Weight： 0.146Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 24GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	22.5	34.1	44.0	69.1	84.0	98.1	114.2	149.7
Avg.Power (kW)	0.542	0.357	0.277	0.177	0.145	0.124	0.107	0.082
			K1=	0.587270				
			K2=	0.003937				
		Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

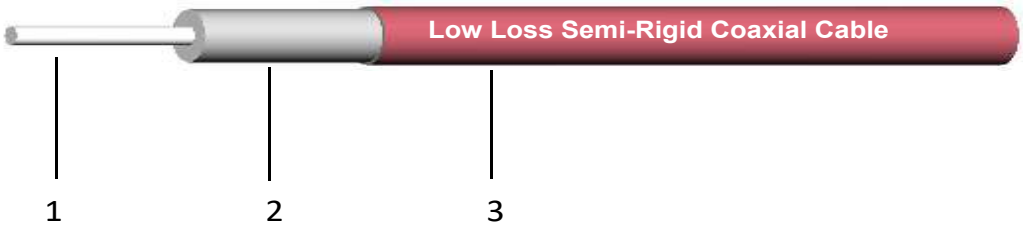
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STE086



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	0.56	SPC
2	Dielectric	1.68	PTFE
3	Outer Conductor	2.18	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 7mm
Weight： 0.021Kg/m
Installation &Operating Temperature Range： -55℃~+250℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 64GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	58.3	82.8	101.7	144.9	168.0	188.4	210.6	255.5	312.8	388.7
Avg.Power (kW)	0.259	0.182	0.148	0.104	0.090	0.080	0.072	0.059	0.048	0.039
			K1=	1.825328						
			K2=	0.000590						
		Calculation=	K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

Typical Applications

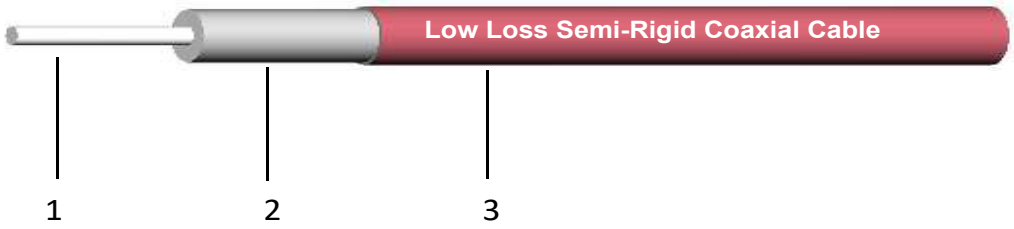
RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

■STE Series Low Loss Semi-Rigid Cable

STE141



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	0.99	SPC
2	Dielectric	3.00	PTFE
3	Outer Conductor	3.58	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 10mm
Weight： 0.047Kg/m
Installation &Operating Temperature Range： -55℃~+250℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 36GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >165dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	31.7	45.5	56.4	81.7	95.6	108.1	121.8	150.3	187.7
Avg.Power (kW)	0.550	0.383	0.309	0.213	0.182	0.161	0.143	0.116	0.093
			K1=	0.965845					
			K2=	0.001151					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

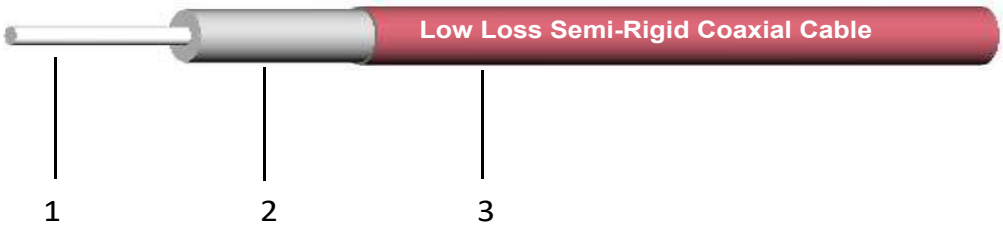
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STE250



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	1.78	SPC
2	Dielectric	5.33	PTFE
3	Outer Conductor	6.35	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius：32mm
Weight：0.136Kg/m
Installation &Operating Temperature Range：-55℃~+250℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 19GTLZ
Characteristic Impedance：50Ω
Velocity of Propagation：70%
Shielding Effectiveness：>165dB
Voltage Power：2200V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	18.3	26.2	32.4	47.0	54.9	62.1	69.9	86.1
Avg.Power (kW)	1.878	1.309	1.058	0.730	0.625	0.553	0.491	0.398
			K1=	0.557600				
			K2=	0.000630				
		Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

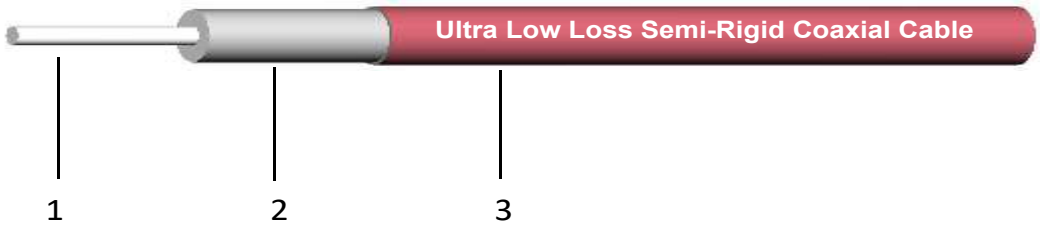
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STF086



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	0.59	SPC
2	Dielectric	1.68	PTFE
3	Outer Conductor	2.18	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 7mm
Weight： 0.021Kg/m
Installation &Operating Temperature Range： -55℃~+250℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 68GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 81%
Shielding Effectiveness： >165dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	58.3	82.8	101.7	144.9	168.0	188.4	210.6	255.5	312.8	388.7
Avg.Power (kW)	0.259	0.182	0.148	0.104	0.090	0.080	0.072	0.059	0.048	0.039
			K1=	1.825328						
			K2=	0.000590						
		Calculation=	K1*√FMhz+K2*FMHz							

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

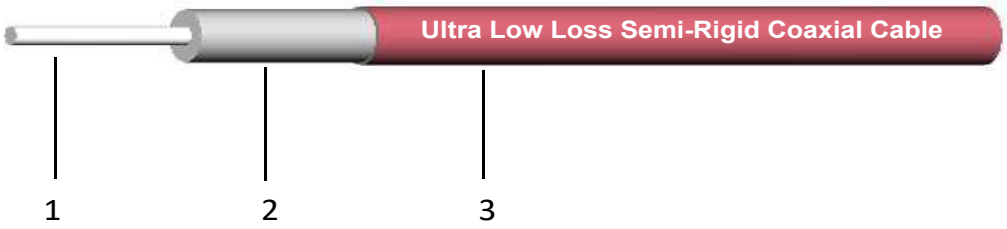
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STF141



Cable Construction Specifications

	Description	Dimensions（mm)	Materials
1	Inner Conductor	1.05	SPC
2	Dielectric	3.00	PTFE
3	Outer Conductor	3.58	Immersion Tin Copper/Cu-Sn-Zn Alloy

Mechanical & Environmental Specifications

Static Bend Radius： 13.5mm
Weight： 0.045Kg/m
Installation &Operating Temperature Range： -55℃~+250℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 38GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 81%
Shielding Effectiveness： >165dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Attenuation(dB/100m)	30.8	43.9	54.0	77.1	89.5	100.5	112.5	136.9	168.1
Avg.Power (kW)	0.584	0.411	0.334	0.234	0.201	0.179	0.160	0.132	0.107
			K1=	0.961145					
			K2=	0.000440					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR

Low Passive Intermodulation （-155dbc）

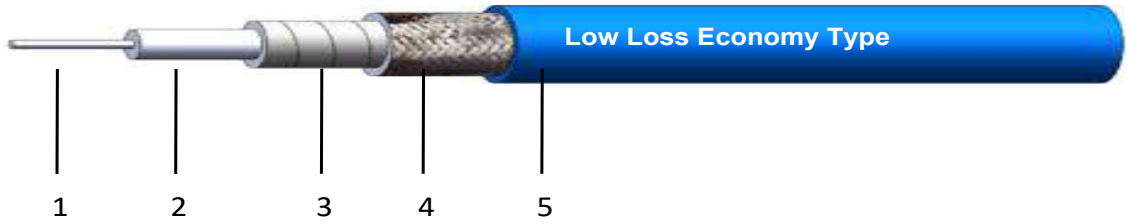
Typical Applications

RF Module Internal Interconnection

Precision Instruments Internal Interconnection

Small, Complex Installation Space

STG360



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	Solid SPC
2	Dielectric	2.65	LD-PTFE
3	Outer Conductor	2.78	Aluminum Foil
4	Outer Shield	3.15	SPC Braid
5	Jacket	3.60	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 18mm
Dynamic Bend Radius： 36mm
Weight：0.029Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 40GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	38.7	55.0	67.7	96.9	112.5	126.4	141.5	172.3
Avg.Power (kW)	0.462	0.325	0.264	0.184	0.159	0.141	0.126	0.104
			K1=	1.204032				
			K2=	0.000600				
		Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

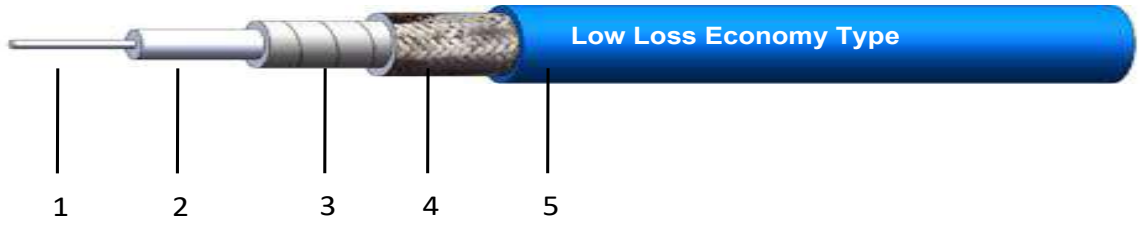
Low VSWR
Cost-effective

Typical Applications

Cabinet Internal Interconnection

Wireless Telecommunication Base Station Interconnection

STG360S



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	Stranded SPC
2	Dielectric	2.65	LD-PTFE
3	Outer Conductor	2.78	Aluminum Foil
4	Outer Shield	3.15	SPC Braid
5	Jacket	4.00	Black FEP

Mechanical & Environmental Specifications

Static Bend Radius： 18mm
Dynamic Bend Radius： 36mm
Weight： 0.029Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 40GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100	44.7	63.6	78.2	111.7	129.6	145.5	162.8	198.0
Avg.Power (kW)	0.353	0.248	0.202	0.141	0.122	0.108	0.097	0.080
			K1=	1.395308				
			K2=	0.000600				
		Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR
Cost-effective

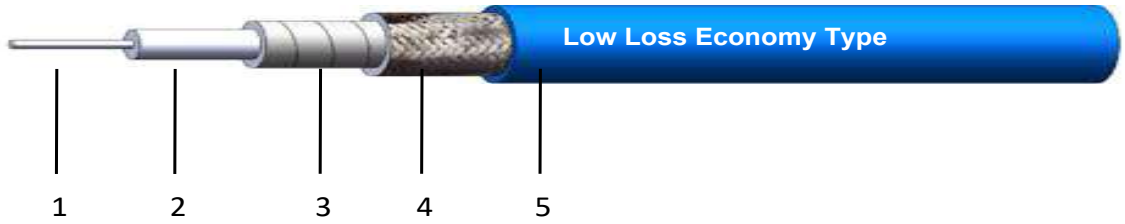
Typical Applications

Cabinet Internal Interconnection

Wireless Telecommunication Base Station Interconnection

STG Series Economy Low Loss Cable

STG500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.45	Solid SPC
2	Dielectric	4.20	LD-PTFE
3	Outer Conductor	4.32	Aluminum Foil
4	Outer Shield	4.65	SPC Braid
5	Jacket	5.20	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 25mm
Dynamic Bend Radius： 51mm
Weight：0.054Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 28GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	23.8	34.3	42.6	62.1	72.9	82.7	93.4	108.2	115.9
Avg.Power (kW)	0.766	0.532	0.428	0.293	0.250	0.220	0.195	0.168	0.157
			K1=	0.718000					
			K2=	0.001088					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

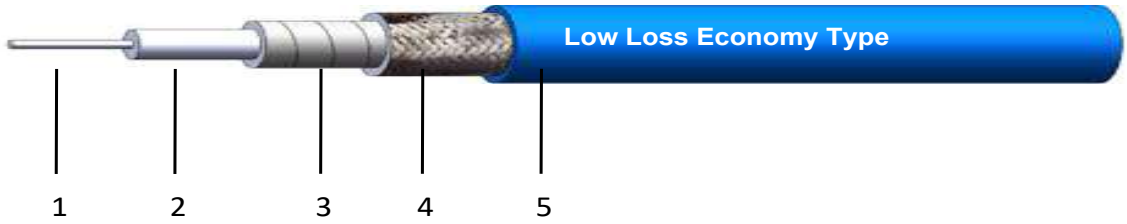
Low VSWR
Cost-effective

Typical Applications

Cabinet Internal Interconnection

Wireless Telecommunication Base Station Interconnection

STG500S



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.45	Stranded SPC
2	Dielectric	4.10	LD-PTFE
3	Outer Conductor	4.20	Aluminum Foil
4	Outer Shield	4.655	SPC Braid
5	Jacket	5.20	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 25mm
Dynamic Bend Radius： 51mm
Weight：0.054Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 25GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	32.9	47.1	58.3	84.4	98.6	111.4	125.4	144.6	154.4
Avg.Power (kW)	0.536	0.374	0.302	0.209	0.179	0.158	0.141	0.122	0.114
			K1=	1.005200					
			K2=	0.001088					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR
Cost-effective

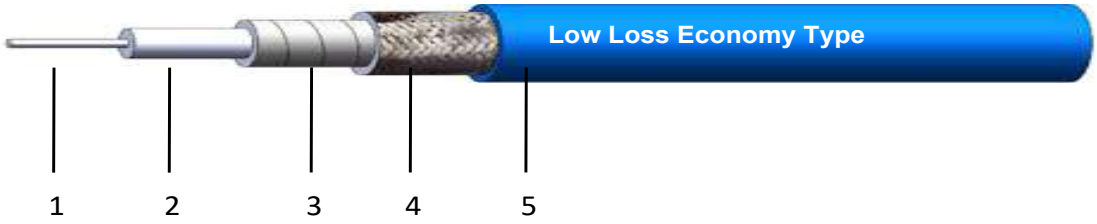
Typical Applications

Cabinet Internal Interconnection

Wireless Telecommunication Base Station Interconnection

STG Series Economy Low Loss Cable

STG800



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.30	Solid SPC
2	Dielectric	6.80	LD-PTFE
3	Outer Conductor	6.95	Aluminum Foil
4	Outer Shield	7.50	SPC Braid
5	Jacket	8.10	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 40mm
Dynamic Bend Radius： 81mm
Weight：0.134Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 19GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	15.1	21.8	27.2	40.1	47.3	53.8	61.0	71.0	76.3
Avg.Power (kW)	1.471	1.015	0.814	0.553	0.469	0.412	0.363	0.312	0.291
			K1=	0.448000					
			K2=	0.000898					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss

Low VSWR

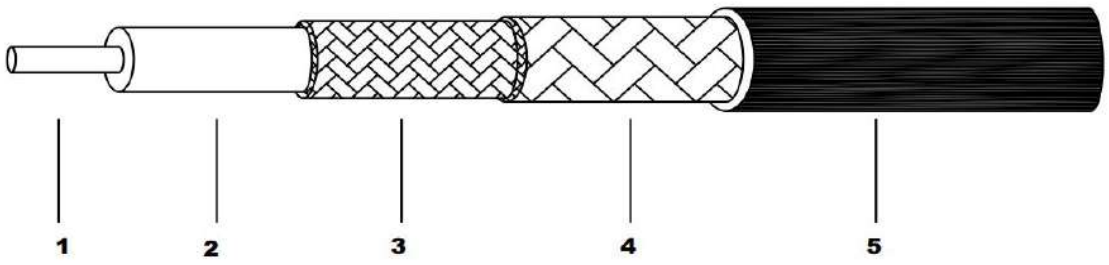
Cost-effective

Typical Applications

Cabinet Internal Interconnection

Wireless Telecommunication Base Station Interconnection

STH500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.17	Solid SPC
2	Dielectric	3.00	LD-PTFE
3	Outer Conductor	3.29	SPC Braid
4	Outer Shield	3.58	SPC Braid
5	Jacket	5.00	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 20mm
Dynamic Bend Radius： 50mm
Weight：0.050Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 37GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 81%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	45.2	63.9	78.3	110.8	127.9	143.1	159.3	181.0	192.0
Avg.Power (kW)	0.133	0.094	0.077	0.054	0.047	0.042	0.038	0.033	0.031
			K1=	1.429331					
			K2=	0.000012					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

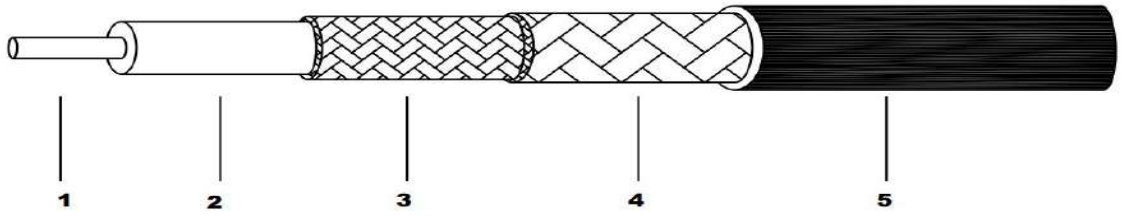
Flexible

Typical Applications

Wireless Telecommunication Instrument Transmission

Mobile Device Signal Transmission

STH750



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.80	Solid SPC
2	Dielectric	4.70	LD-PTFE
3	Outer Conductor	4.99	SPC Braid
4	Outer Shield	5.28	SPC Braid
5	Jacket	7.30	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 29.2mm
Dynamic Bend Radius： 73.0mm
Weight：0.100Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 23GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 81%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100r	34.8	49.2	60.3	85.2	98.4	110.1	122.6	139.3	147.7
Avg.Power (kW)	0.252	0.178	0.145	0.103	0.089	0.080	0.072	0.063	0.059
			K1=	1.099485					
			K2=	0.000012					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

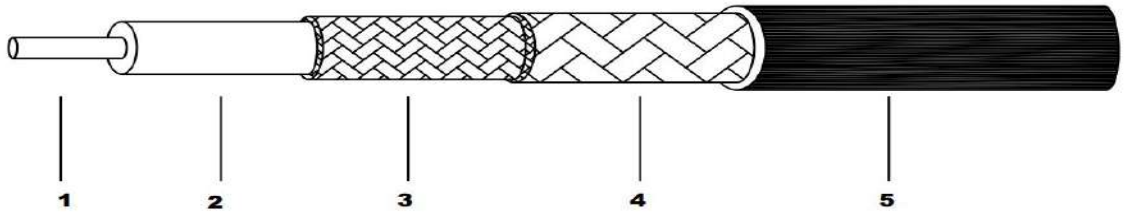
Flexible

Typical Applications

Wireless Telecommunication Instrument Transmission

Mobile Device Signal Transmission

STH1000



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.65	Solid SPC
2	Dielectric	7.00	LD-PTFE
3	Outer Conductor	7.29	SPC Braid
4	Outer Shield	7.58	SPC Braid
5	Jacket	10.00	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 50mm
Dynamic Bend Radius： 100mm
Weight：0.158Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 15GTLZ
Cutoff Frequency： 16GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 81%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	13500	15000
Attenuation(dB/100m)	22.6	32.0	39.2	55.4	64.0	71.6	79.7	83.2	87.7
Avg.Power (kW)	0.454	0.321	0.262	0.185	0.160	0.143	0.129	0.123	0.117
			K1=	0.714665					
			K2=	0.000012					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

Flexible

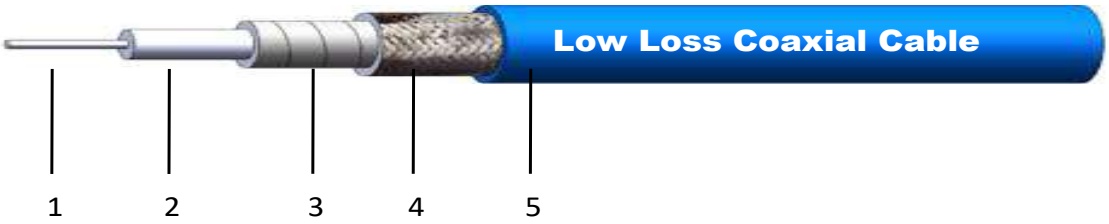
Typical Applications

Wireless Telecommunication Instrument Transmission

Mobile Device Signal Transmission

■STJ Series Low Loss Cable

STJ230



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.51	Solid SPC
2	Dielectric	1.52	LD-PTFE
3	Outer Conductor	1.70	SPC Strip
4	Outer Shield	2.04	SPC Braid
5	Jacket	2.33	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 11mm
Dynamic Bend Radius： 23mm
Weight：0.016Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 71GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 400V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	70.1	99.8	122.9	176.0	204.5	229.9	257.6	314.1	386.8	484.3
Avg. Power (kW)	0.097	0.068	0.055	0.039	0.033	0.030	0.026	0.022	0.018	0.014
			K1=	2.177342						
			K2=	0.001221						
		Calculation=	K1*√FMhz+K2*FMHz							

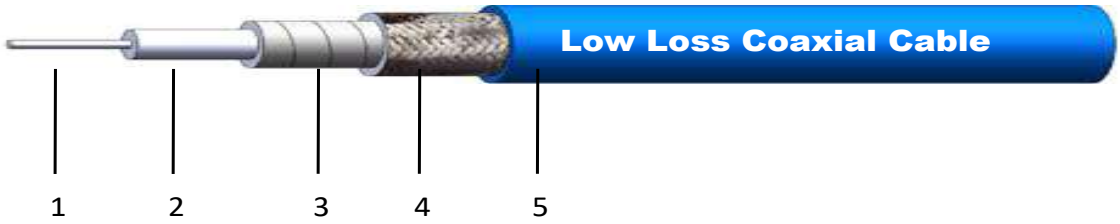
Features & Advantages

Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STJ400



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	Solid SPC
2	Dielectric	2.70	LD-PTFE
3	Outer Conductor	2.85	SPC Strip
4	Outer Shield	3.30	SPC Braid
5	Jacket	3.75	Green FEP

Mechanical & Environmental Specifications

Static Bend Radius： 19mm
Dynamic Bend Radius： 38mm
Weight：0.034Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 40GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	39.4	56.0	68.9	98.2	113.9	127.9	143.0	173.7	212.9	265.0
Avg. Power (kW)	0.753	0.530	0.431	0.302	0.261	0.232	0.208	0.171	0.139	0.112
			K1=	1.232579						
			K2=	0.000462						
		Calculation=	K1*√FMhz+K2*FMHz							

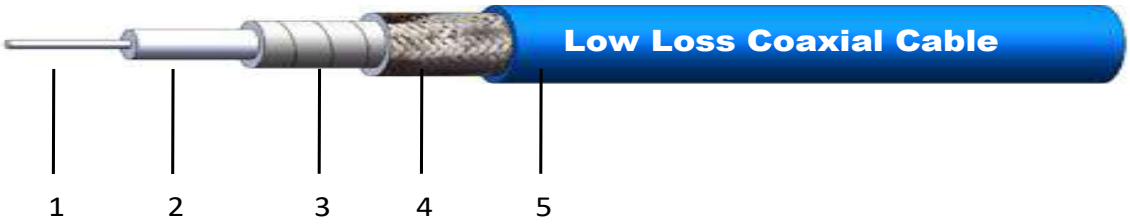
Features & Advantages

Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STJ500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.29	Solid SPC
2	Dielectric	3.85	LD-PTFE
3	Outer Conductor	4.05	SPC Strip
4	Outer Shield	4.62	SPC Braid
5	Jacket	5.20	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 26mm
Dynamic Bend Radius： 52mm
Weight：0.066Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 26GTLZ
Cutoff Frequency： 28GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Attenuation(dB/100m)	25.0	35.6	44.0	63.2	73.7	83.0	93.1	114.0	141.1
Avg.Power (kW)	0.749	0.524	0.425	0.296	0.254	0.225	0.201	0.164	0.132
			K1=	0.770610					
			K2=	0.000591					
		Calcualtion=		K1*√FMhz+K2*FMHz					

Features & Advantages

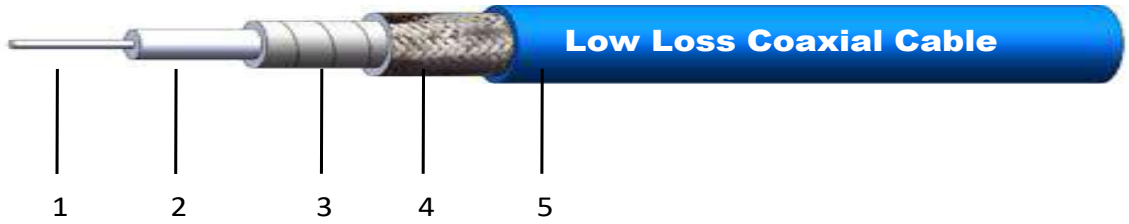
Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

■STJ Series Low Loss Cable

STJ520S



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.35	Solid SPC
2	Dielectric	3.80	LD-PTFE
3	Outer Conductor	4.00	SPC Strip
4	Outer Shield	4.55	SPC Braid
5	Jacket	5.30	Green FEP

Mechanical & Environmental Specifications

Static Bend Radius： 26mm
Dynamic Bend Radius： 53mm
Weight：0.068Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 28GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	30.6	43.6	53.7	77.0	89.5	100.7	112.9	137.8	169.9
Avg. Power (kW)	0.749	0.525	0.426	0.297	0.256	0.227	0.203	0.166	0.135
			K1=	0.947785					
			K2=	0.000591					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

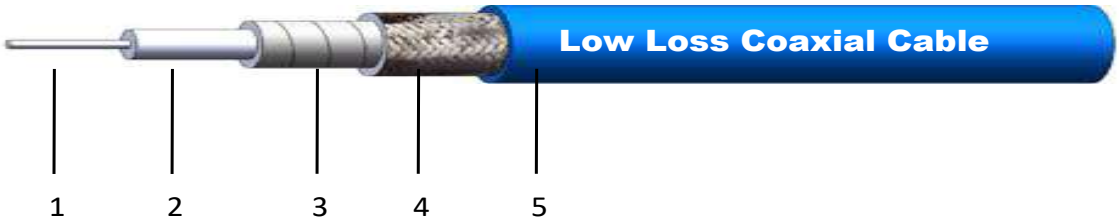
Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

■STJ Series Low Loss Cable

STJ530



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.44	Solid SPC
2	Dielectric	4.15	LD-PTFE
3	Outer Conductor	4.35	SPC Strip
4	Outer Shield	4.90	SPC Braid
5	Jacket	5.30	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 26mm
Dynamic Bend Radius： 53mm
Weight：0.070Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 25GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	25.3	35.9	44.2	63.0	73.1	82.1	91.9	111.7
Avg.Power (kW)	0.991	0.697	0.567	0.397	0.342	0.305	0.273	0.224
			K1=	0.788400				
			K2=	0.000328				
		Calculation=	K1*√FMhz+K2*FMHz					

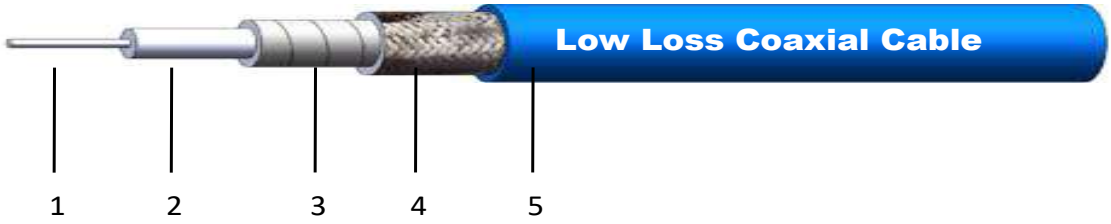
Features & Advantages

Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STJ530S



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.44	Solid SPC
2	Dielectric	4.10	LD-PTFE
3	Outer Conductor	4.30	SPC Strip
4	Outer Shield	4.85	SPC Braid
5	Jacket	5.30	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 26mm
Dynamic Bend Radius： 53mm
Weight：0.075Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 25GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	30.4	43.5	53.8	77.6	90.6	102.2	115.0	141.3
Avg.Power (kW)	0.821	0.573	0.464	0.321	0.275	0.244	0.217	0.177
			K1=	0.932400				
			K2=	0.000900				
		Calcualtion=		K1*√FMhz+K2*FMHz				

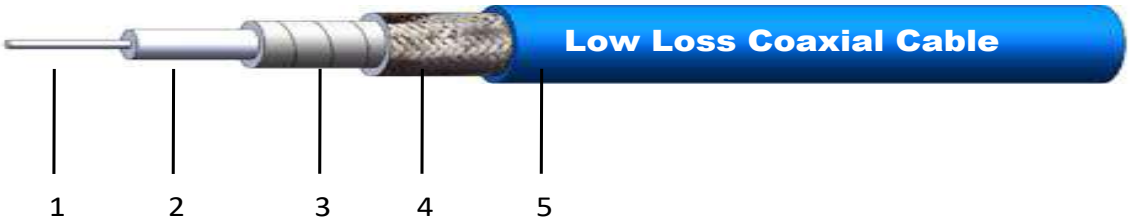
Features & Advantages

Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STJ635



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.57	Solid SPC
2	Dielectric	4.72	LD-PTFE
3	Outer Conductor	4.90	SPC Strip
4	Outer Shield	5.50	SPC Braid
5	Jacket	6.35	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 31mm
Dynamic Bend Radius： 63mm
Weight：0.094Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 23GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	21.4	30.6	37.9	54.6	63.7	71.8	80.7	99.0
Avg.Power (kW)	1.019	0.712	0.577	0.400	0.343	0.304	0.271	0.220
			K1=	0.658847				
			K2=	0.000591				
		Calculation=		K1*√FMhz+K2*FMHz				

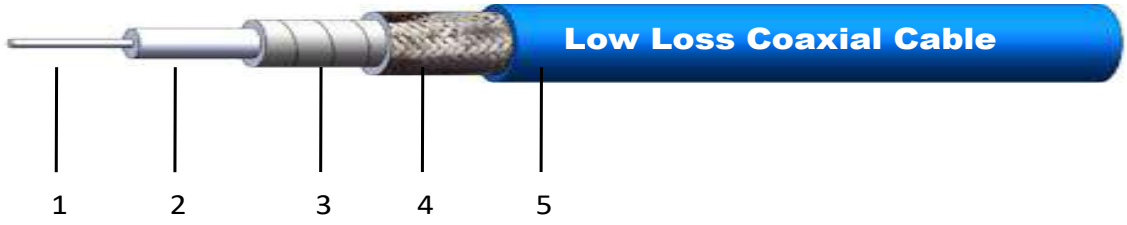
Features & Advantages

Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STJ900



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.44	Solid SPC
2	Dielectric	7.24	LD-PTFE
3	Outer Conductor	7.48	SPC Strip
4	Outer Shield	8.05	SPC Braid
5	Jacket	8.70	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 46mm
Dynamic Bend Radius： 93mm
Weight： 0.190Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 14GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	4000	5000	6000	8000	10000
Attenuation(dB/100m)	12.6	18.1	22.5	26.3	29.8	32.9	38.6	43.8
Avg.Power (kW)	1.833	1.271	1.023	0.875	0.775	0.701	0.597	0.526
			K1=	0.379168				
			K2=	0.000591				
		Calculation=		K1*√FMhz+K2*FMHz				

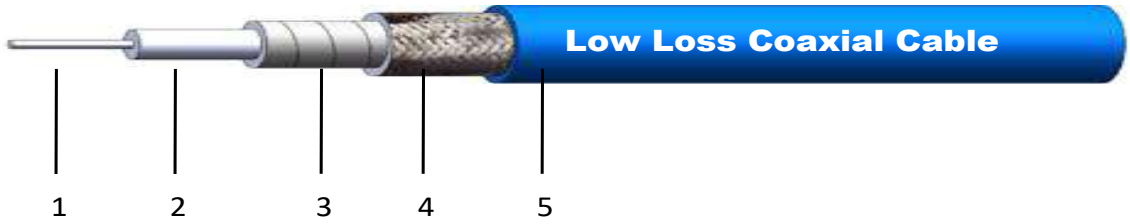
Features & Advantages

Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STJ940



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.58	Solid SPC
2	Dielectric	7.80	LD-PTFE
3	Outer Conductor	-	SPC Strip
4	Outer Shield	8.75	SPC Braid
5	Jacket	9.40	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 50mm
Dynamic Bend Radius： 100mm
Weight：0.208Kg/m
Installation &Operating Temperature Range： -55℃~+165℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 13GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 2500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	4000	5000	6000	8000	10000
Attenuation(dB/100m)	14.2	20.4	25.2	29.3	33.0	36.4	42.5	48.0
Avg.Power (kW)	3.137	2.190	1.771	1.522	1.351	1.226	1.050	0.930
			K1=	0.396177				
			K2=	0.000398				
		Calculation=	K1*√FMhz+K2*FMHz					

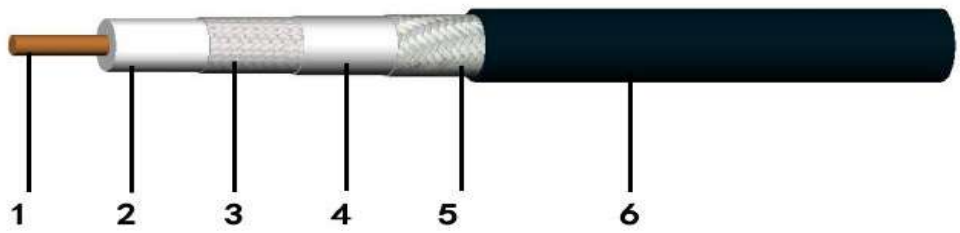
Features & Advantages

Low Loss
High power
Low Passive Intermodulation （-155dbc）
Cost-effective

Typical Applications

Aviation Electronics
Electronic Confrontation
Wireless Telecommunication Base Station Interconnection
RF Microwaves Device Test

STK500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.12	Copper
2	Dielectric	2.95	Foaming Propylene
3	Inner Shield	3.20	SPC Strip
4	Interlayer	-	Aluminum Foil
5	Outer Shield	3.91	SPC Braid
6	Jacket	5.00	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 12.7mm
Dynamic Bend Radius： 50mm
Weight：0.060Kg/m
Installation &Operating Temperature Range： -45℃~+85℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 38GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	300	500	1000	2000	3000	4000	5000	6000	10000
Attenuation(dB/100m)	18.6	24.1	34.5	49.4	61.1	71.1	80.1	88.3	116.6
Avg.Power (kW)	0.350	0.270	0.189	0.132	0.107	0.091	0.081	0.074	0.056
			K1=	1.054134					
			K2=	0.001115					
		Calculation=	K1*√FMhz+K2*FMHz						

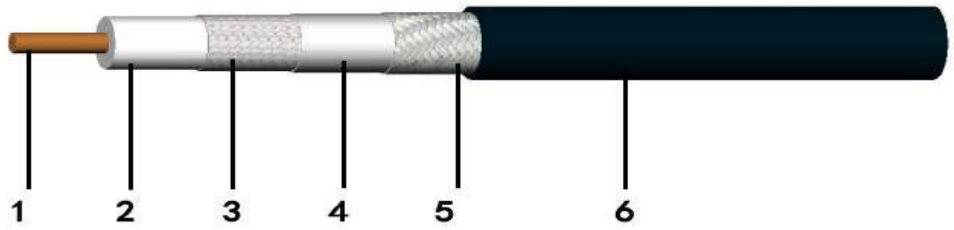
Features & Advantages

Low VSWR
Cost-effective
Anti-irradiated and UV-resistant

Typical Applications

Wireless Telecommunication Base Station Interconnection
System Interconnection
Vehicle Communication Interconnection

STK600



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.42	Copper
2	Dielectric	3.81	Foaming Propylene
3	Inner Shield	4.06	SPC Strip
4	Interlayer	-	Aluminum Foil
5	Outer Shield	4.78	SPC Braid
6	Jacket	6.10	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 25mm
Dynamic Bend Radius： 60mm
Weight： 0.070Kg/m
Installation &Operating Temperature Range： -45℃~+85℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 30GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	300	500	1000	2000	3000	4000	5000	6000	10000
Attenuation(dB/100m)	13.3	17.4	24.9	35.8	44.4	51.9	58.6	64.7	86.0
Avg.Power (kW)	0.610	0.469	0.328	0.227	0.183	0.157	0.139	0.126	0.095
			K1=	0.751798					
			K2=	0.001086					
		Calculation=	K1*√FMhz+K2*FMHz						

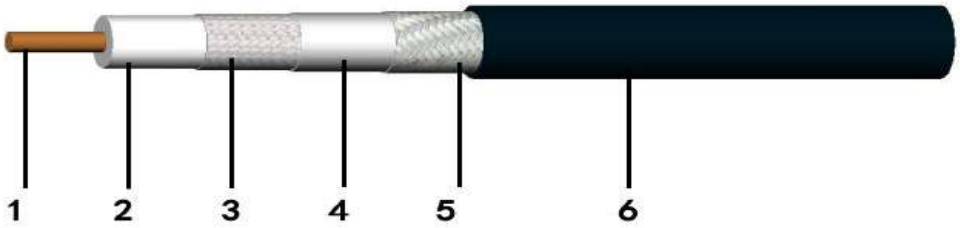
Features & Advantages

Low VSWR
Cost-effective
Anti-irradiated and UV-resistant

Typical Applications

Wireless Telecommunication Base Station Interconnection
System Interconnection
Vehicle Communication Interconnection

STK700



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.78	Copper
2	Dielectric	4.83	Foaming Propylene
3	Inner Shield	5.08	SPC Strip
4	Interlayer	-	Aluminum Foil
5	Outer Shield	5.94	SPC Braid
6	Jacket	7.62	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 30mm
Dynamic Bend Radius： 76mm
Weight：0.080Kg/m
Installation &Operating Temperature Range： -45℃~+85℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 23GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	300	500	1000	2000	3000	4000	5000	6000	10000
Attenuation(dB/100m)	11.4	14.8	21.2	30.7	38.1	44.6	50.4	55.8	74.5
Avg. Power (kW)	0.900	0.691	0.482	0.334	0.268	0.229	0.203	0.183	0.137
			K1=	0.637589					
			K2=	0.001073					
		Calculation=	K1*√FMhz+K2*FMHz						

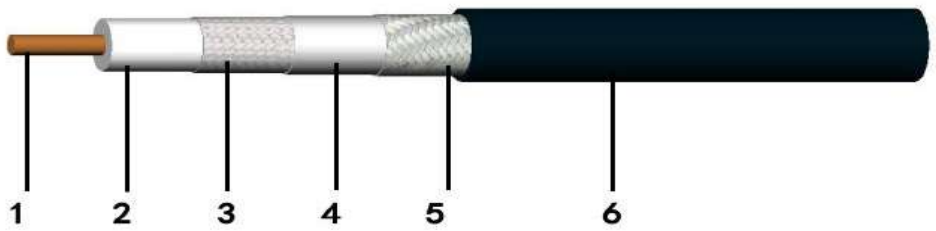
Features & Advantages

Low VSWR
Cost-effective
Anti-irradiated and UV-resistant

Typical Applications

Wireless Telecommunication Base Station Interconnection
System Interconnection
Vehicle Communication Interconnection

STK1000



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.75	Copper
2	Dielectric	7.24	Foaming Propylene
3	Inner Shield	7.49	SPC Strip
4	Interlayer	-	Aluminum Foil
5	Outer Shield	8.38	SPC Braid
6	Jacket	10.29	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 50mm
Dynamic Bend Radius： 103mm
Weight：0.120Kg/m
Installation &Operating Temperature Range： -45℃~+85℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 15GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	300	500	1000	2000	3000	4000	5000	6000	10000
Attenuation(dB/100m)	7.7	10.0	14.4	20.9	26.0	30.5	34.6	38.3	51.4
Avg.Power (kW)	0.985	0.756	0.525	0.362	0.290	0.248	0.219	0.197	0.147
			K1=	0.428330					
			K2=	0.000860					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

Low VSWR

Cost-effective

Anti-irradiated and UV-resistant

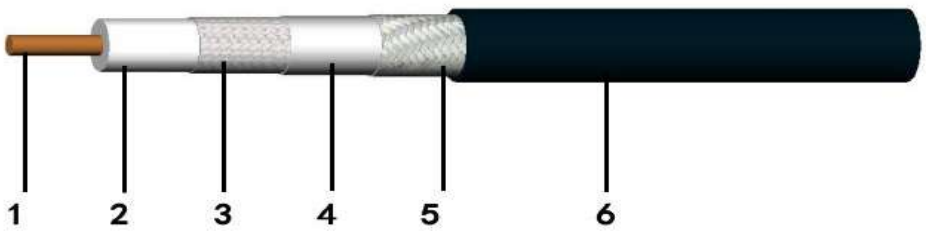
Typical Applications

Wireless Telecommunication Base Station Interconnection

System Interconnection

Vehicle Communication Interconnection

STK1500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	4.47	Copper
2	Dielectric	11.56	Foaming Propylene
3	Inner Shield	11.81	SPC Strip
4	Interlayer	-	Aluminum Foil
5	Outer Shield	12.70	SPC Braid
6	Jacket	15.00	Black PUR

Mechanical & Environmental Specifications

Static Bend Radius： 80mm
Dynamic Bend Radius： 150mm
Weight：0.240Kg/m
Installation &Operating Temperature Range： -45℃~+85℃

Electrical Specifications

Frequency Range： 6GTLZ
Cutoff Frequency： 9GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >83dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	300	500	1000	2000	3000	4000	5000	6000
Attenuation(dB/100m)	4.8	6.3	9.1	13.4	16.9	20.0	22.8	25.4
Avg.Power (kW)	1.540	1.175	0.808	0.551	0.437	0.370	0.325	0.291
			K1=	0.262713				
			K2=	0.000840				
		Calculation=	K1*√FMhz+K2*FMHz					

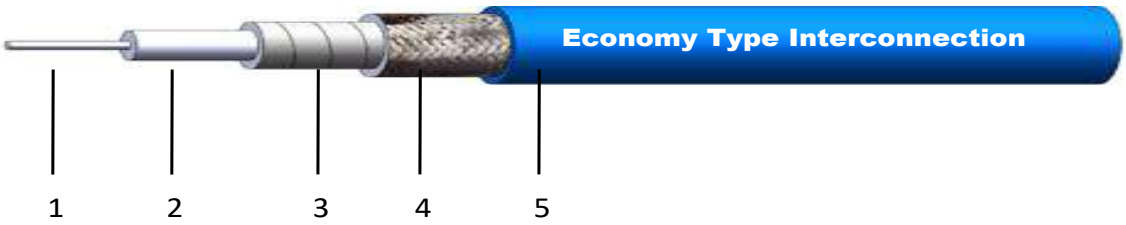
Features & Advantages

Low VSWR
Cost-effective
Anti-irradiated and UV-resistant

Typical Applications

Wireless Telecommunication Base Station Interconnection
System Interconnection
Vehicle Communication Interconnection

STL160



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.30	Solid SPC
2	Dielectric	0.95	LD-PTFE
3	Outer Conductor	1.07	SPC Strip
4	Outer Shield	1.25	SPC Braid
5	Jacket	1.45	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 6mm
Dynamic Bend Radius： 16mm
Weight：0.006Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 110GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 80%
Shielding Effectiveness： >90dB
Voltage Power： 300V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	135.2	191.6	235.1	334.0	386.5	433.0	483.2	584.7
Avg.Power (kW)	0.082	0.058	0.047	0.033	0.029	0.026	0.023	0.019
			K1=	4.248276				
			K2=	0.000820				
		Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

Low VSWR

Cost -Effective

Typical Applications

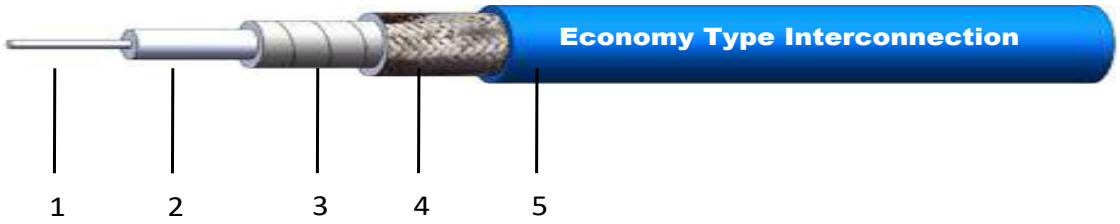
Cabinet Internal Interconnection

Phased Array Radar Array Free Connection

Module Internal Interconnection

Semi-Rigid &Semi-Flexible Replacement Cable

STL280



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.53	Solid SPC
2	Dielectric	1.63	LD-PTFE
3	Outer Conductor	1.83	SPC Strip
4	Outer Shield	2.18	SPC Braid
5	Jacket	2.65	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 13mm
Dynamic Bend Radius： 26mm
Weight：0.020Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 61GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 80%
Shielding Effectiveness： >90dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	62.8	91.1	113.7	167.7	197.9	225.4	256.0	320.4	407.2
Avg.Power (kW)	0.119	0.082	0.066	0.045	0.038	0.033	0.029	0.023	0.018
			K1=	1.860236					
			K2=	0.003937					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low VSWR

Cost -Effective

Typical Applications

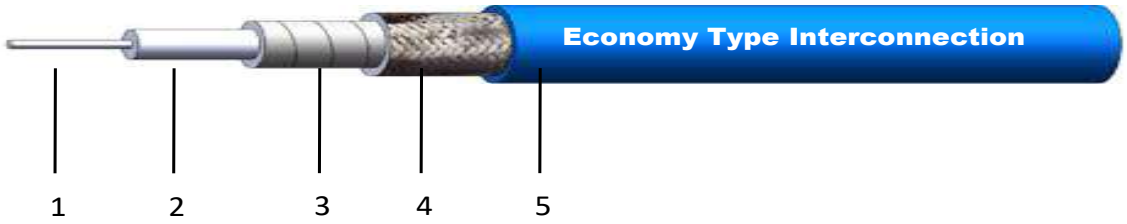
Cabinet Internal Interconnection

Phased Array Radar Array Free Connection

Module Internal Interconnection

Semi-Rigid &Semi-Flexible Replacement Cable

STL400



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.94	Solid SPC
2	Dielectric	3.00	LD-PTFE
3	Outer Conductor	3.20	SPC Strip
4	Outer Shield	3.55	SPC Braid
5	Jacket	4.00	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 20mm
Dynamic Bend Radius： 40mm
Weight：0.041Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 34GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >90dB
Voltage Power： 1500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	37.6	55.1	69.3	103.9	123.5	141.6	161.9	205.3	264.7
Avg. Power (kW)	0.290	0.198	0.157	0.105	0.088	0.077	0.067	0.053	0.041
			K1=	1.082677					
			K2=	0.003337					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low VSWR

Cost -Effective

Typical Applications

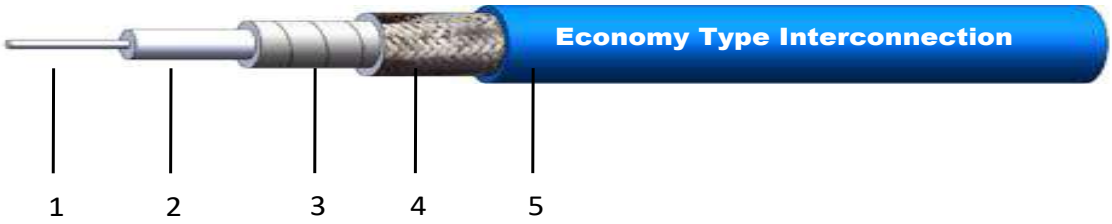
Cabinet Internal Interconnection

Phased Array Radar Array Free Connection

Module Internal Interconnection

Semi-Rigid &Semi-Flexible Replacement Cable

STL700



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.63	Solid SPC
2	Dielectric	5.30	LD-PTFE
3	Outer Conductor	5.55	SPC Strip
4	Outer Shield	6.17	SPC Braid
5	Jacket	7.00	Blue FEP

Mechanical & Environmental Specifications

Static Bend Radius： 35mm
Dynamic Bend Radius： 70mm
Weight：0.118Kg/m
Installation &Operating Temperature Range： -55℃~+125℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 19GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 70%
Shielding Effectiveness： >90dB
Voltage Power： 300V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	25.7	38.7	49.5	77.0	93.1	108.3	125.5	163.3
Avg. Power (kW)	0.561	0.373	0.291	0.187	0.155	0.133	0.115	0.088
			K1=	0.688976				
			K2=	0.003937				
		Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

Low VSWR

Cost -Effective

Typical Applications

Cabinet Internal Interconnection

Phased Array Radar Array Free Connection

Module Internal Interconnection

Semi-Rigid &Semi-Flexible Replacement Cable

STM400

Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.83	Solid SPC
2	Dielectric	2.42	LD-PTFE
3	Inner Shield	2.55	SPC Strip
4	Interlayer	2.85	PFA
5	Outer Shield	3.42	SPC Braid
6	Jacket	3.95	PUR

Mechanical & Environmental Specifications

Static Bend Radius： 20mm
Dynamic Bend Radius： 40mm
Weight： 0.037Kg/m
Installation &Operating Temperature Range： -55℃~+85℃
Mechanical Phase Change:±3° /GHz

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 46GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	37.9	54.0	66.5	95.2	110.7	124.5	139.6	170.3	209.9	263.1
Avg.Power (kW)	0.173	0.121	0.099	0.069	0.059	0.053	0.047	0.038	0.031	0.025
			K1=	1.175410						
			K2=	0.000700						
		Calculation=		K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

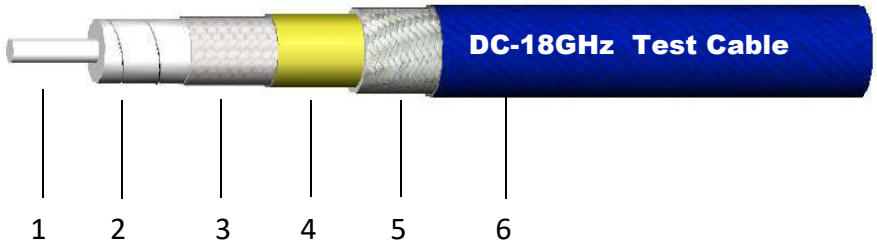
Typical Applications

System Test

High Throughput RF Production Testing

System Interconnection

STM480



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.94	Solid SPC
2	Dielectric	2.98	Solid PTFE
3	Inner Shield	3.25	SPC Strip
4	Interlayer	3.40	Aluminum Foil
5	Outer Shield	3.95	SPC Braid
6	Jacket	4.88	FEP

Mechanical & Environmental Specifications

Static Bend Radius：24mm
Dynamic Bend Radius：48mm
Weight：0.058Kg/m
Installation &Operating Temperature Range：-55℃~+125℃
Mechanical Phase Change:±1° /GHz

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 40GTLZ
Characteristic Impedance：50Ω
Velocity of Propagation： 70%
Shielding Effectiveness：>90dB
Voltage Power：100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	40.0	58.9	74.3	112.1	133.6	153.5	176.0	224.0
Avg.Power (kW)	0.488	0.332	0.263	0.174	0.146	0.127	0.111	0.087
			K1=	1.141732				
			K2=	0.003937				
		Calculation=	K1*√FMhz+K2*FMHz					

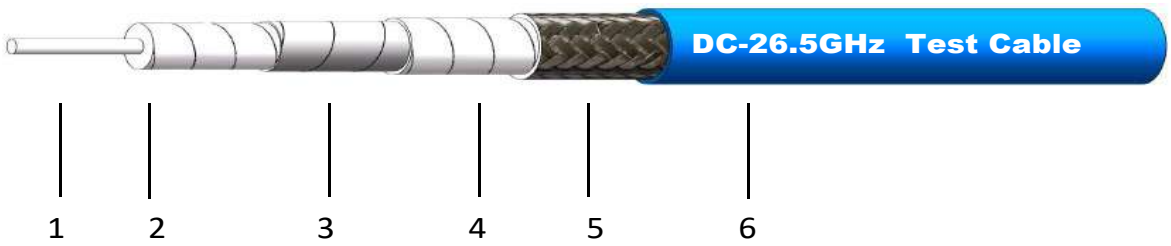
Features & Advantages

Low Loss
Low VSWR
Bending, Shake, Torsion & Pull resistance

Typical Applications

System Test
High Throughput RF Production Testing
System Interconnection

STM500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	Solid SPC
2	Dielectric	2.70	LD-PTFE
3	Inner Shield	2.85	SPC Strip
4	Interlayer	3.15	PTFE
5	Outer Shield	3.60	SPC Braid
6	Jacket	4.95	FEP

Mechanical & Environmental Specifications

Static Bend Radius：30mm
Dynamic Bend Radius：50mm
Weight：0.058Kg/m
Installation &Operating Temperature Range：-55℃~+125℃
Mechanical Phase Change:±3° /GHz

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 43GTLZ
Characteristic Impedance：50Ω
Velocity of Propagation：70%
Shielding Effectiveness：>90dB
Voltage Power：100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	39.4	56.0	68.9	98.2	113.9	127.9	143.0	173.7	212.9
Avg.Power (kW)	0.505	0.355	0.289	0.203	0.175	0.156	0.139	0.115	0.094
			K1=	1.232579					
			K2=	0.000462					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

Low Loss

Low VSWR

Bending, Shake, Torsion & Pull resistance

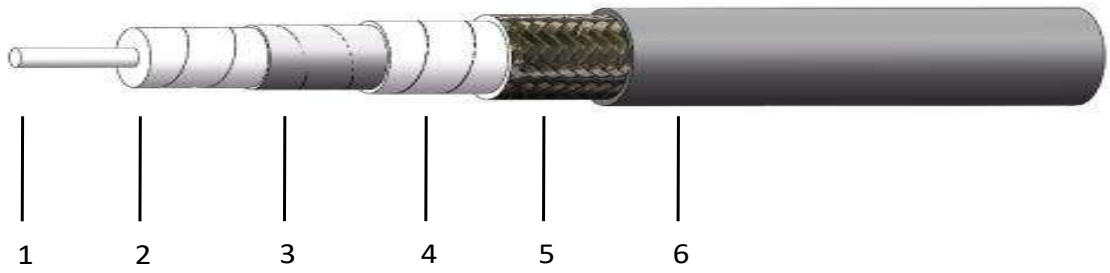
Typical Applications

System Test

High Throughput RF Production Testing

System Interconnection

STM520



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.02	Solid SPC
2	Dielectric	2.92	LD-PTFE
3	Inner Shield	3.10	SPC Strip
4	Interlayer	3.38	LD-PTFE
5	Outer Shield	3.95	SPC Braid
6	Jacket	5.20	Blue PUR

Mechanical & Environmental Specifications

Static Bend Radius：26mm
Dynamic Bend Radius：52mm
Weight：0.058Kg/m
Installation &Operating Temperature Range：-55℃~+85℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 35GTLZ
Characteristic Impedance：50Ω
Velocity of Propagation：70%
Shielding Effectiveness：>90dB
Voltage Power：500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	38.5	55.9	69.8	103.2	121.9	139.0	157.9	198.0	252.1
Avg.Power (kW)	0.149	0.103	0.082	0.056	0.047	0.041	0.036	0.029	0.023
				K1=	1.136600				
				K2=	0.002530				
			Calculation=	K1*√FMhz+K2*FMHz					

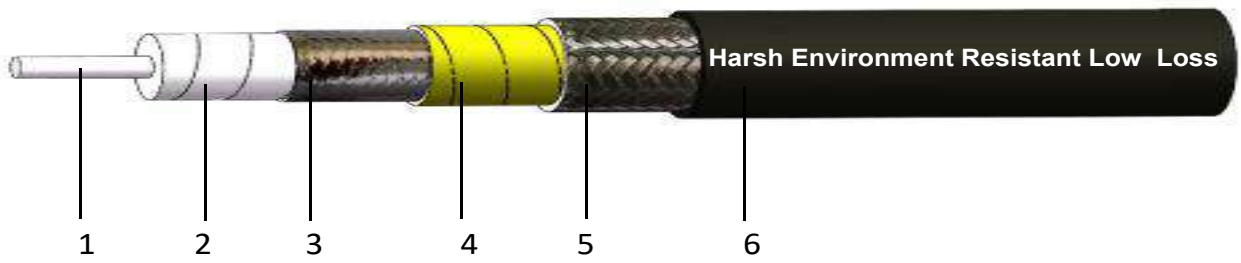
Features & Advantages

Low Loss
Low VSWR
Bending, Shake, Torsion & Pull resistance

Typical Applications

System Test
High Throughput RF Production Testing
System Interconnection

STN460



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.02	Solid SPC
2	Dielectric	3.07	LD-PTFE
3	Inner Shield	3.27	SPC Strip
4	Interlayer	3.43	Aluminum Foil
5	Outer Shield	3.94	SPC Braid
6	Jacket	5.00	Rat-proof PUR

Mechanical & Environmental Specifications

Static Bend Radius： 25mm
Dynamic Bend Radius： 50mm
Weight：0.057Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 35GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	35.4	50.4	62.0	88.8	103.2	116.0	129.9	148.7	158.3
Avg.Power (kW)	0.199	0.140	0.113	0.079	0.068	0.061	0.054	0.047	0.044
				K1=	1.099485				
				K2=	0.000602				
			Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

More Than 20 Years' Life Outdoors

Low Loss

Cost-effective

Typical Applications

Armored Vehicles, Tank and Mobile Vehicles Antenna

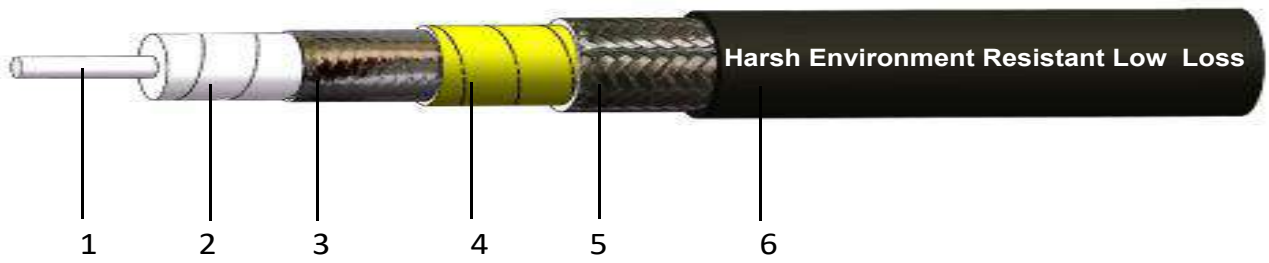
Military Radio Communications

Warship Telecommunication Equipments Interconnection

Phased Array Radar Antenna

Telecommunication Base Stations Interconnection

STN520



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.29	Solid SPC
2	Dielectric	3.91	LD-PTFE
3	Inner Shield	4.15	SPC Strip
4	Interlayer	4.28	Aluminum Foil
5	Outer Shield	4.85	SPC Braid
6	Jacket	6.00	Rat-proof PUR

Mechanical & Environmental Specifications

Static Bend Radius： 30mm
Dynamic Bend Radius： 60mm
Weight：0.070Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 28GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation(dB/100m)	27.7	39.5	48.7	69.9	81.3	91.5	102.7	117.8	125.5
Avg.Power (kW)	0.263	0.184	0.150	0.104	0.089	0.079	0.071	0.062	0.058
				K1=	0.856234				
				K2=	0.000591				
			Calculation=	K1*√FMhz+K2*FMHz					

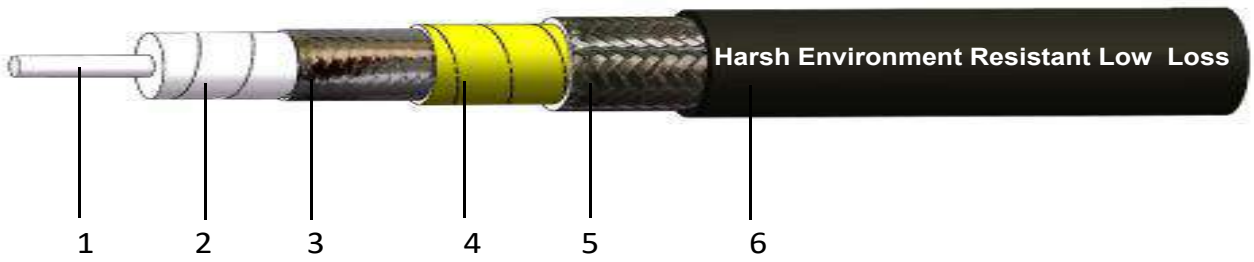
Features & Advantages

More Than 20 Years' Life Outdoors
Low Loss
Cost-effective

Typical Applications

Armored Vehicles, Tank and Mobile Vehicles Antenna
Military Radio Communications
Warship Telecommunication Equipments Interconnection
Phased Array Radar Antenna
Telecommunication Base Stations Interconnection

STN635



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.57	Solid SPC
2	Dielectric	4.72	LD-PTFE
3	Inner Shield	4.96	SPC Strip
4	Interlayer	5.10	Aluminum Foil
5	Outer Shield	5.66	SPC Braid
6	Jacket	7.20	Rat-proof PUR

Mechanical & Environmental Specifications

Static Bend Radius： 36mm
Dynamic Bend Radius： 72mm
Weight：0.100Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 27GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 2000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	1000	12400	16000	18000
Attenuation(dB/100m)	22.2	31.7	39.2	56.4	65.8	22.2	83.4	95.8	102.2
Avg.Power (kW)	0.357	0.250	0.202	0.140	0.120	0.357	0.095	0.083	0.077
				K1=	0.682743				
				K2=	0.000591				
			Calculation=		K1*√FMhz+K2*FMHz				

Features & Advantages

More Than 20 Years' Life Outdoors

Low Loss

Cost-effective

Typical Applications

Armored Vehicles, Tank and Mobile Vehicles Antenna

Military Radio Communications

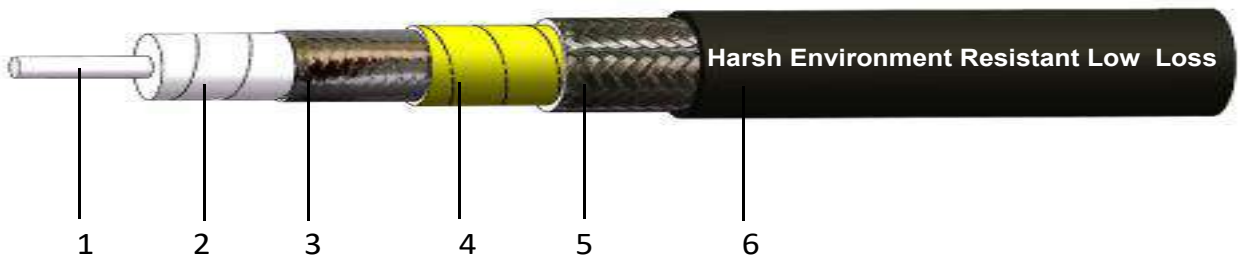
Warship Telecommunication Equipments Interconnection

Phased Array Radar Antenna

Telecommunication Base Stations Interconnection

STN Series Harsh Environment Resistant Low Loss Cable

STN1000



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	2.44	Solid SPC
2	Dielectric	7.24	LD-PTFE
3	Inner Shield	7.48	SPC Strip
4	Interlayer	7.61	Aluminum Foil
5	Outer Shield	8.19	SPC Braid
6	Jacket	10.15	Rat-proof PUR

Mechanical & Environmental Specifications

Static Bend Radius： 50mm
Dynamic Bend Radius： 100mm
Weight：0.205Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 10GTLZ
Cutoff Frequency： 15GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >70dB
Voltage Power： 3000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	4000	5000	6000	8000	10000
Attenuation(dB/100m)	14.7	21.1	26.2	30.6	34.5	38.2	44.7	50.6
Avg. Power (kW)	1.104	0.768	0.619	0.530	0.470	0.426	0.363	0.321
				K1=	0.446080			
				K2=	0.000600			
			Calculation=		K1*√FMhz+K2*FMHz			

Features & Advantages

More Than 20 Years' Life Outdoors

Low Loss

Cost-effective

Typical Applications

Armored Vehicles, Tank and Mobile Vehicles Antenna

Military Radio Communications

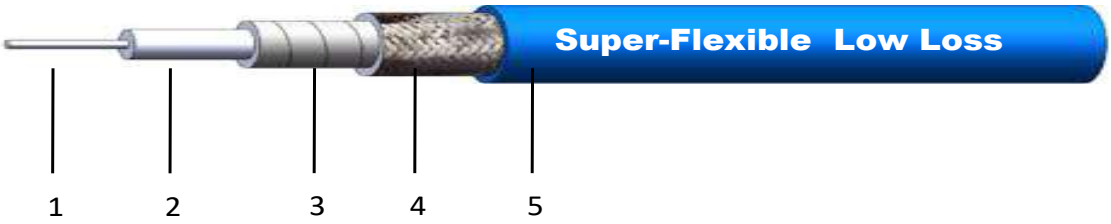
Warship Telecommunication Equipments Interconnection

Phased Array Radar Antenna

Telecommunication Base Stations Interconnection

STZ Series Super-Flexible Low Loss Cable

STZ360



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.72	Stranded SPC
2	Dielectric	2.05	LD-PTFE
3	Outer Conductor	2.22	SPC Strip
4	Outer Shield	2.66	SPC Braid
5	Jacket	3.60	Blue PUR or custom

Mechanical & Environmental Specifications

Static Bend Radius： 18mm
Dynamic Bend Radius： 36mm
Weight：0.027Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 51GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 500V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	51.9	74.4	92.1	133.4	156.0	176.4	198.7	244.9	305.5	388.8
Avg. Power (kW)	0.119	0.083	0.067	0.046	0.040	0.035	0.031	0.025	0.020	0.016
			K1=	1.582929						
			K2=	0.001806						
		Calculation=	K1*√FMhz+K2*FMHz							

Features & Advantages

Multi-stranded, Super-Flexible

Resistance to Harsh Environments

Typical Applications

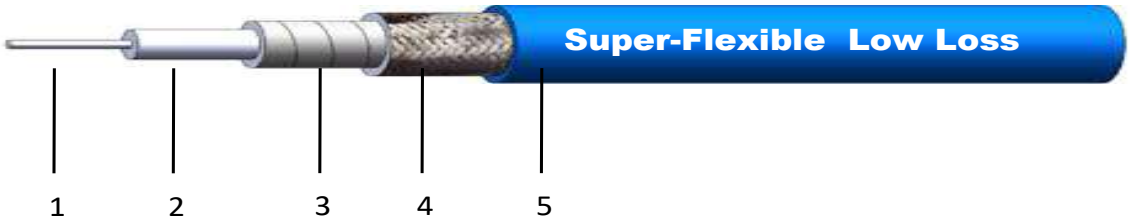
Cabinet Internal Interconnection

Phased Array Radar Array Free Connection

Module Internal Interconnection

Small, Complex and Installation Space

STZ500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.02	Stranded SPC
2	Dielectric	3.00	LD-PTFE
3	Outer Conductor	3.20	SPC Strip
4	Outer Shield	3.78	SPC Braid
5	Jacket	5.00	Blue PUR or custom

Mechanical & Environmental Specifications

Static Bend Radius： 25mm
Dynamic Bend Radius： 50mm
Weight：0.051Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 35GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1000V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	38.5	55.9	69.8	103.2	121.9	139.0	157.9	198.0	252.1
Avg.Power (kW)	0.149	0.103	0.082	0.056	0.047	0.041	0.036	0.029	0.023
			K1=	1.136600					
			K2=	0.002530					
		Calculation=	K1*√FMhz+K2*FMHz						

Features & Advantages

Multi-stranded, Super-Flexible

Resistance to Harsh Environments

Typical Applications

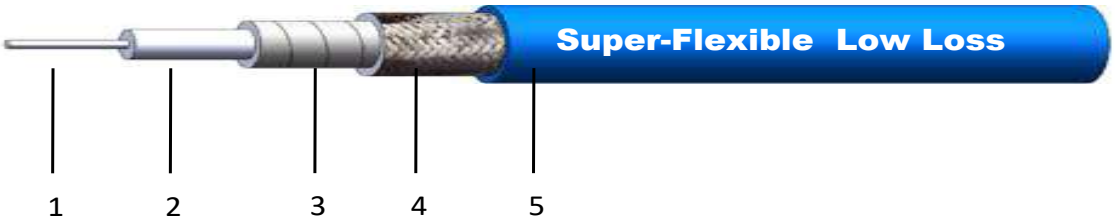
Cabinet Internal Interconnection

Phased Array Radar Array Free Connection

Module Internal Interconnection

Small, Complex and Installation Space

STZ600



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.44	Stranded SPC
2	Dielectric	4.15	LD-PTFE
3	Outer Conductor	4.35	SPC Strip
4	Outer Shield	4.80	SPC Braid
5	Jacket	6.00	Black PUR or custom

Mechanical & Environmental Specifications

Static Bend Radius： 30mm
Dynamic Bend Radius： 60mm
Weight：0.072Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 29.5GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1700V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	28.7	41.2	50.9	73.6	86.0	97.1	109.2	134.3	167.2
Avg. Power (kW)	0.175	0.122	0.099	0.068	0.059	0.052	0.046	0.037	0.030
			K1=	0.880600					
			K2=	0.000900					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Multi-stranded, Super-Flexible

Resistance to Harsh Environments

Typical Applications

Cabinet Internal Interconnection

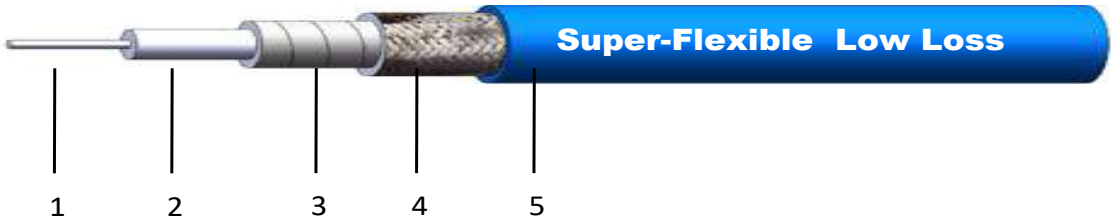
Phased Array Radar Array Free Connection

Module Internal Interconnection

Small, Complex and Installation Space

STZ Series Super-Flexible Low Loss Cable

STZ800



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	1.88	Stranded SPC
2	Dielectric	5.50	LD-PTFE
3	Outer Conductor	5.74	SPC Strip
4	Outer Shield	6.31	SPC Braid
5	Jacket	8.00	Blue PUR or custom

Mechanical & Environmental Specifications

Static Bend Radius： 40mm
Dynamic Bend Radius： 80mm
Weight：0.116Kg/m
Installation &Operating Temperature Range： -55℃~+85℃

Electrical Specifications

Frequency Range： 18GTLZ
Cutoff Frequency： 20GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 1700V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation(dB/100m)	18.2	26.7	33.8	50.9	60.7	69.8	80.0	101.9
Avg. Power (kW)	0.327	0.222	0.176	0.117	0.098	0.085	0.074	0.058
			K1=	0.517315				
			K2=	0.001806				
		Calculation=	K1*√FMhz+K2*FMHz					

Features & Advantages

Multi-stranded, Super-Flexible

Resistance to Harsh Environments

Typical Applications

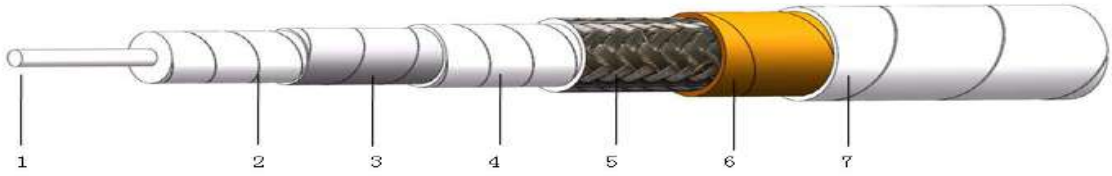
Cabinet Internal Interconnection

Phased Array Radar Array Free Connection

Module Internal Interconnection

Small, Complex and Installation Space

STL360



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.72	
2	Dielectric	-	
3	Inner Shield	2.25	
4	Interlayer	-	
5	Outer Shield	3.01	
6-7	Jacket	3.60	

Mechanical & Environmental Specifications

Static Bend Radius： 18mm
Dynamic Bend Radius： 36mm
Weight：0.028Kg/m
Installation &Operating Temperature Range： -55℃~+125
Withstand Temperature: +400℃ over 400 seconds

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 50GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 76%
Shielding Effectiveness： >90dB
Voltage Power： 100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	51.9	74.4	92.1	133.4	156.0	176.4	198.7	244.9	305.5	388.8
Avg.Power (kW)	0.400	0.279	0.225	0.155	0.133	0.118	0.104	0.085	0.068	0.053
			K1=	1.582929						
			K2=	0.001806						
		Calculation=		K1*√FMhz+K2*FMHz						

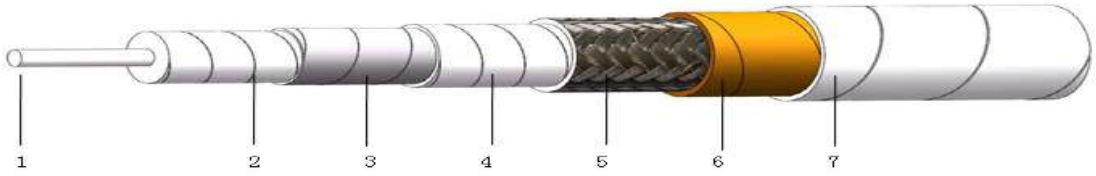
Features & Advantages

Low Loss
Low VSWR
Withstand High Temperature

Typical Applications

Withstand Extremely High Temperature Test
Missiles Telecommunications

STL400



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.91	
2	Dielectric	-	
3	Inner Shield	2.95	
4	Interlayer	-	
5	Outer Shield	3.35	
6-7	Jacket	4.00	

Mechanical & Environmental Specifications

Static Bend Radius： 20mm
Dynamic Bend Radius： 40mm
Weight：0.040Kg/m
Installation &Operating Temperature Range： -55℃~+125
Withstand Temperature: +400℃ over 400 seconds

Electrical Specifications

Frequency Range： 40GTLZ
Cutoff Frequency： 56GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation(dB/100m)	41.2	58.6	72.0	102.9	119.4	134.0	149.9	182.3	223.8	279.1
Avg.Power (kW)	0.509	0.358	0.291	0.204	0.176	0.156	0.140	0.115	0.094	0.075
			K1=	1.285317						
			K2=	0.000550						
		Calculation=	K1*√FMhz+K2*FMHz							

Features & Advantages

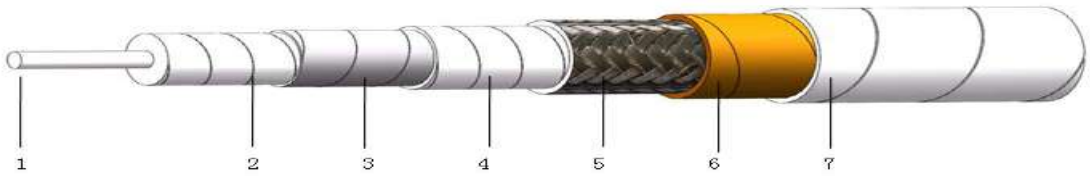
Low Loss
Low VSWR
Withstand High Temperature

Typical Applications

Withstand Extremely High Temperature Test
Missiles Telecommunications

STLR Series Missiles Withstand High Temperature Phase Stable Cable

STL500



Cable Construction Specifications

	Description	Dimensions（mm)	Material
1	Inner Conductor	0.14	
2	Dielectric	-	
3	Inner Shield	3.95	
4	Interlayer	-	
5	Outer Shield	4.65	
6-7	Jacket	5.40	

Mechanical & Environmental Specifications

Static Bend Radius： 25mm
Dynamic Bend Radius： 54mm
Weight：0.060Kg/m
Installation &Operating Temperature Range： -55℃~+125
Withstand Temperature: +400℃ over 400 seconds

Electrical Specifications

Frequency Range： 26.5GTLZ
Cutoff Frequency： 31GTLZ
Characteristic Impedance： 50Ω
Velocity of Propagation： 83%
Shielding Effectiveness： >90dB
Voltage Power： 100V,DC

Attenuation（Typical value @ +25℃ &VSWR=1.0）
Power (Typical value@ +40℃& atmospheric pressure)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation(dB/100m)	24.3	34.6	42.7	61.1	71.0	79.9	89.5	109.2	134.5
Avg. Power (kW)	0.873	0.613	0.497	0.347	0.299	0.266	0.237	0.194	0.158
			K1=	0.754593					
			K2=	0.000440					
		Calculation=		K1*√FMhz+K2*FMHz					

Features & Advantages

Low Loss
Low VSWR
Withstand High Temperature

Typical Applications

Withstand Extremely High Temperature Test
Missiles Telecommunications