

Cryogenic cables

 **COAX CO., LTD.**

2019 Edition

◆ SC-033 series

Part number		SC-033/50-SS-SS	SC-033/50-SSS-SS	SC-033/50-CN-CN			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	0.33	0.33	0.33			
	Material	304 Stainless steel	304 Stainless steel	Cupronickel			
Dielectric	Diameter +/- 0.0254 [mm]	0.26	0.26	0.26			
	Material	PFA	PFA	PFA			
Center conductor	Diameter +/- 0.013 [mm]	0.08	0.08	0.08			
	Material	304 Stainless steel	Silver plated 304SUS	Cupronickel			
Thermal conductivity at 4K [W·cm/K]		1.10E-06	2.62E-05	1.40E-06			
Conductor Resistance at 300K [Ω /m]	Center cond.	141.54	20.07	80.70			
	Outer cond.	22.00	22.00	10.69			
◇ Electrical properties							
Characteristic impedance [Ω]		50 +/- 3.0	50 +/- 3.0	50 +/- 3.0			
Voltage withstanding VRMS (60Hz)		500	500	500			
Max. operating frequency [GHz]		392	392	392			
Capacitance (Average) [pF/m]		96.2	96.2	96.2			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	18.9	11.8	6.4	3.0	13.7	10.3
	1.0GHz	26.8	16.8	9.1	4.2	19.3	14.6
	5.0GHz	60.0	37.4	20.3	9.4	43.3	32.5
	10.0GHz	84.9	53.0	28.8	13.3	61.3	46.0
	20.0GHz	120.2	74.9	40.8	18.8	86.9	65.1
◇ Mechanical properties							
Max. operating temperature [°C]		100	100	100			
Min. inside bend radius [mm]		1.5	1.5	1.3			
Standard length [m]		1	1	1			

◆ SC-033 series

Part number		SC-033/50-NbTi-CN					
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	0.33					
	Material	Cupronickel					
Dielectric	Diameter +/- 0.0254 [mm]	0.26					
	Material	PFA					
Center conductor	Diameter +/- 0.013 [mm]	0.08					
	Material	Niobium Titanium					
Thermal conductivity at 4K [W·cm/K]		1.00E-06					
Conductor Resistance at 300K [Ω /m]	Center cond.	139.65					
	Outer cond.	10.69					
◇ Electrical properties							
Characteristic impedance [Ω]		50 +/- 3.0					
Voltage withstanding VRMS(60Hz)		500					
Max. operating frequency [GHz]		392					
Capacitance (Average) [pF/m]		96.2					
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	17.8	2.5				
	1.0GHz	25.3	3.5				
	5.0GHz	56.5	7.8				
	10.0GHz	79.9	11.0				
	20.0GHz	113.0	15.5				
◇ Mechanical properties							
Max. operating temperature [°C]		100					
Min. inside bend radius [mm]		1.3					
Standard length [m]		1					

◆ SC-040 series

Part number		SC-040/50-CN-CN					
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	0.4					
	Material	Cupronickel					
Dielectric	Diameter +/- 0.0254 [mm]	0.26					
	Material	PFA					
Center conductor	Diameter +/- 0.013 [mm]	0.08					
	Material	Cupronickel					
Thermal conductivity at 4K [W·cm/K]		2.80E-06					
Conductor Resistance at 300K [Ω /m]	Center cond.	80.70					
	Outer cond.	5.60					
◇ Electrical properties							
Characteristic impedance [Ω]		50 +/- 3.0					
Voltage withstanding VRMS(60Hz)		500					
Max. operating frequency [GHz]		392					
Capacitance (Average) [pF/m]		96.2					
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	13.7	10.3				
	1.0GHz	19.3	14.6				
	5.0GHz	43.3	32.5				
	10.0GHz	61.3	46.0				
	20.0GHz	86.9	65.1				
◇ Mechanical properties							
Max. operating temperature [°C]		100					
Min. inside bend radius [mm]		1.3					
Standard length [m]		1 or 2					

◆ SC-086 series

Part number		SC-086/50-CN-CN		SC-086/50-SCN-CN		SC-086/50-SS-SS	
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	0.86		0.86		0.86	
	Material	Cupronickel		Cupronickel		304 Stainless steel	
Dielectric	Diameter +/- 0.0254 [mm]	0.66		0.66		0.66	
	Material	PTFE		PTFE		PTFE	
Center conductor	Diameter +/- 0.013 [mm]	0.203		0.203		0.203	
	Material	Cupronickel		Silver plated Cupronickel		304 Stainless steel	
Thermal conductivity at 4K [W·cm/K]		9.80E-06		7.07E-05		7.40E-06	
Conductor Resistance at 300K [Ω /m]	Center cond.	12.50		4.57		25.50	
	Outer cond.	1.56		1.60		2.75	
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-2.5		50+/-2.5		50+/-2.5	
Voltage withstanding VRMS(60Hz)		2000		2000		2000	
Max. operating frequency [GHz]		154		154		154	
Capacitance (Average) [pF/m]		95.2		95.2		95.2	
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	5.4	4.1	2.1	1.0	7.3	4.7
	1.0GHz	7.7	5.7	3.0	1.5	10.3	6.6
	5.0GHz	17.1	12.8	6.7	3.2	23.0	14.8
	10.0GHz	24.3	18.1	9.5	4.6	32.7	20.9
	20.0GHz	34.6	25.7	13.4	6.5	46.4	29.5
◇ Mechanical properties							
Max. operating temperature [°C]		100		100		100	
Min. inside bend radius [mm]		3.2		3.2		3.2	
Standard length [m]		1 ro 2		1 or 2		1 or 2	

◆ SC-086 series

Nonmagnetic

Nonmagnetic

Part number		SC-086/50-SSS-SS	SC-086/50-B-B	SC-086/50-SB-B			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	0.86	0.86	0.86			
	Material	304 Stainless steel	Beryllium copper	Beryllium copper			
Dielectric	Diameter +/- 0.0254 [mm]	0.66	0.66	0.66			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.203	0.203	0.203			
	Material	Silver plated 304SUS	Beryllium copper	Silver plated Beryllium copper			
Thermal conductivity at 4K [W·cm/K]		6.84E-05	5.10E-05	1.72E-04			
Conductor Resistance at 300K [Ω /m]	Center cond.	7.19	3.26	0.38			
	Outer cond.	2.69	0.39	0.39			
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-3.0	50+/-3.0	50+/-3.0			
Voltage withstanding VRMS(60Hz)		2000	2000	2000			
Max. operating frequency [GHz]		154	154	154			
Capacitance (Average) [pF/m]		96.2	96.2	95.2			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	2.6	1.2	2.3	1.8	1.4	0.5
	1.0GHz	3.7	1.7	3.3	2.5	2.0	0.7
	5.0GHz	8.3	3.7	7.4	5.6	4.4	1.6
	10.0GHz	11.7	5.2	10.6	7.9	6.3	2.2
	20.0GHz	16.5	7.4	15.2	11.2	8.9	3.1
◇ Mechanical properties							
Max. operating temperature [°C]		100	100	100			
Min. inside bend radius [mm]		3.2	3.2	3.2			
Standard length [m]		1 or 2	1 or 2	1 or 2			

◆ SC-086 series

Superconducting

Part number		SC-086/50-NbTi-NbTi					
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	0.90 +/-0.04					
	Material	Niobium Titanium					
Dielectric	Diameter +/- 0.0254 [mm]	0.66					
	Material	PTFE					
Center conductor	Diameter +/- 0.013 [mm]	0.203					
	Material	Niobium Titanium					
Thermal conductivity at 4K [W·cm/K]		4.63E-06					
Conductor Resistance at 300K [Ω /m]	Center cond.	22.97					
	Outer cond.	2.38					
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-3.0					
Voltage withstanding VRMS(60Hz)		2000					
Max. operating frequency [GHz]		154					
Capacitance (Average) [pF/m]		96.2					
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	7.6	Less than 0.5dB				
	1.0GHz	10.7					
	5.0GHz	24.0					
	10.0GHz	34.1					
	20.0GHz	48.3					
◇ Mechanical properties							
Max. operating temperature [°C]		90					
Min. inside bend radius [mm]		3.2					
Standard length [m]		1					

◆ SC-119 series

Part number		SC-119/50-SS-SS	SC-119/50-SSS-SS	SC-119/50-CN-CN			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	1.19	1.19	1.19			
	Material	304 Stainless steel	304 Stainless steel	Cupronickel			
Dielectric	Diameter +/- 0.0254 [mm]	0.94	0.94	0.94			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.287	0.287	0.287			
	Material	304 Stainless steel	Silver plated 304SUS	Cupronickel			
Thermal conductivity at 4K [W·cm/K]		1.32E-05	9.95E-05	1.74E-05			
Conductor Resistance at 300K [Ω /m]	Center cond.	11.50	4.37	6.04			
	Outer cond.	1.69	1.59	0.98			
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-2.5	50+/-2.5	50+/-2.5			
Voltage withstanding VRMS(60Hz)		2000	2000	2000			
Max. operating frequency [GHz]		108	108	108			
Capacitance (Average) [pF/m]		95.2	95.2	95.2			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	5.3	3.3	1.8	0.8	3.8	2.9
	1.0GHz	7.4	4.7	2.6	1.2	5.4	4.1
	5.0GHz	16.6	10.4	5.8	2.6	12.0	9.1
	10.0GHz	23.5	14.7	8.2	3.7	17.0	12.9
	20.0GHz	33.3	20.8	11.6	5.2	24.0	18.3
◇ Mechanical properties							
Max. operating temperature [°C]		100	100	100			
Min. inside bend radius [mm]		3.2	3.2	3.2			
Standard length [m]		1 or 2	1 or 2	1 or 2			

◆ SC-119 series

Nonmagnetic

Nonmagnetic

Part number		SC-119/50-SCN-CN	SC-119/50-B-B	SC-119/50-SB-B			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	1.19	1.19	1.19			
	Material	Cupronickel	Beryllium copper	Beryllium copper			
Dielectric	Diameter +/- 0.0254 [mm]	0.94	0.94	0.94			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.287	0.287	0.287			
	Material	Silver Plated Cupronickel	Beryllium copper	Silver plated Beryllium copper			
Thermal conductivity at 4K [W·cm/K]		1.04E-04	9.10E-05	1.77E-04			
Conductor Resistance at 300K [Ω /m]	Center cond.	2.80	1.74	1.19			
	Outer cond.	1.00	0.22	0.22			
◇ Electrical properties							
Characteristic impedance [Ω]		50 +/- 2.5	50 +/- 2.5	50 +/- 2.5			
Voltage withstanding VRMS(60Hz)		2000	2000	2000			
Max. operating frequency [GHz]		108	108	108			
Capacitance (Average) [pF/m]		95.2	95.6	95.6			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	1.5	0.7	1.6	1.3	1.0	0.3
	1.0GHz	2.1	1.0	2.3	1.8	1.4	0.5
	5.0GHz	4.7	2.3	5.1	4.0	3.1	1.1
	10.0GHz	6.7	3.3	7.3	5.6	4.4	1.5
	20.0GHz	9.5	4.6	10.5	7.9	6.3	2.2
◇ Mechanical properties							
Max. operating temperature [°C]		100	100	100			
Min. inside bend radius [mm]		3.2	3.2	3.2			
Standard length [m]		1 or 2	1 or 2	1 or 2			

◆ SC-119 series

Superconducting

Nonmagnetic

Part number		SC-119/50-NbTi-NbTi	SC-119/50-PBC-PBC				
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	1.19	1.19				
	Material	Niobium Titanium	Phosphor bronze				
Dielectric	Diameter +/- 0.0254 [mm]	0.94	0.94				
	Material	PTFE	PTFE				
Center conductor	Diameter +/- 0.013 [mm]	0.287	0.287				
	Material	Niobium Titanium	Phosphor bronze				
Thermal conductivity at 4K [W·cm/K]		7.54E-06	5.80E-05				
Conductor Resistance at 300K [Ω /m]	Center cond.	10.60	2.06				
	Outer cond.	1.90	0.27				
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-2.5	50 +/-2.5				
Voltage withstanding VRMS(60Hz)		2000	2000				
Max. operating frequency [GHz]		108	108				
Capacitance (Average) [pF/m]		95.2	95.6				
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	5.3	Less than 0.4dB	2.3	1.8		
	1.0GHz	7.5		3.2	2.5		
	5.0GHz	16.9		7.2	5.7		
	10.0GHz	24.0		10.3	8.0		
	20.0GHz	34.1		14.8	11.3		
◇ Mechanical properties							
Max. operating temperature [°C]		100	100				
Min. inside bend radius [mm]		6.4	3.2				
Standard length [m]		1	1				

◆ SC-160 series

Superconducting

Part number		SC-160/50-CN-CN	SC-160/50-SCN-CN	SC-160/50-NbTi-NbTi			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	1.60	1.60	1.60			
	Material	Cupronickel	Cupronckel	Niobium Titanium			
Dielectric	Diameter +/- 0.0254 [mm]	1.05	1.05	1.05			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.32	0.32	0.32			
	Material	Cupronickel	Silver plated Cupronickel	Niobium Titanium			
Thermal conductivity at 4K [W·cm/K]		4.42E-05	1.41E-04	1.66E-05			
Conductor Resistance at 300K [Ω /m]	Center cond.	4.93	2.38	8.95			
	Outer cond.	0.33	0.33	0.70			
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-2.0	50+/-2.0	50+/-2.5			
Voltage withstanding VRMS(60Hz)		2000	2000	2000			
Max. operating frequency [GHz]		97	97	97			
Capacitance (Average) [pF/m]		95.5	95.5	95.6			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	3.4	2.6	1.3	0.6	4.6	Less than 0.4dB
	1.0GHz	4.8	3.6	1.9	0.9	6.7	
	5.0GHz	10.8	8.1	4.2	2.0	15.1	
	10.0GHz	15.2	11.5	6.0	2.9	21.5	
	20.0GHz	21.5	16.2	8.5	4.1	30.6	
◇ Mechanical properties							
Max. operating temperature [°C]		100	100	90			
Min. inside bend radius [mm]		3	3	6.4			
Standard length [m]		1 or 2	1 or 2	1			

◆ SC-219 series

Part number		SC-219/50-SS-SS	SC-219/50-SSS-SS	SC-219/50-CN-CN			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	2.19	2.19	2.19			
	Material	304 Stainless steel	304 Stainless steel	Cupronickel			
Dielectric	Diameter +/- 0.0254 [mm]	1.67	1.67	1.67			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.51	0.51	0.51			
	Material	304 Stainless steel	Silver plated 304SUS	Cupronickel			
Thermal conductivity at 4K [W·cm/K]		4.30E-05	2.02E-04	6.30E-05			
Conductor Resistance at 300K [Ω /m]	Center cond.	3.54	1.66	1.86			
	Outer cond.	0.45	0.45	0.23			
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-1.5	50+/-1.5	50+/-1.5			
Voltage withstanding VRMS(60Hz)		2500	2500	2500			
Max. operating frequency [GHz]		61	61	61			
Capacitance (Average) [pF/m]		95.2	95.2	95.2			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	3.0	1.9	1.0	0.5	2.4	1.6
	1.0GHz	4.2	2.6	1.5	0.7	3.4	2.3
	5.0GHz	9.4	5.9	3.3	1.5	7.6	5.1
	10.0GHz	13.5	8.3	4.6	2.1	10.8	7.2
	20.0GHz	19.2	11.7	6.5	2.9	15.5	10.2
◇ Mechanical properties							
Max. operating temperature [°C]		125	125	125			
Min. inside bend radius [mm]		6.4	6.4	3.2			
Standard length [m]		1 or 2	1 or 2	1 or 2			

◆ SC-219 series

Nonmagnetic

Nonmagnetic

Part number		SC-219/50-SCN-CN	SC-219/50-B-B	SC-219/50-SB-B			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	2.19	2.19	2.19			
	Material	Cupronickel	Beryllium copper	Beryllium copper			
Dielectric	Diameter +/- 0.0254 [mm]	1.67	1.67	1.67			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.51	0.51	0.51			
	Material	Silver plated Cupronickel	Beryllium copper	Silver plated Beryllium copper			
Thermal conductivity at 4K [W·cm/K]		2.18E-04	2.96E-04	4.88E-04			
Conductor Resistance at 300K [Ω /m]	Center cond.	1.19	0.51	0.46			
	Outer cond.	0.23	0.06	0.06			
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-1.5	50+/-1.5	50+/-1.5			
Voltage withstanding VRMS(60Hz)		2500	2500	2500			
Max. operating frequency [GHz]		61	61	61			
Capacitance (Average) [pF/m]		95.2	95.2	95.2			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	0.8	0.4	0.9	0.7	0.6	0.2
	1.0GHz	1.2	0.6	1.3	1	0.8	0.3
	5.0GHz	2.7	1.3	2.9	2.2	1.8	0.6
	10.0GHz	3.8	1.8	4.1	3.2	2.5	0.9
	20.0GHz	5.3	2.6	5.8	4.5	3.5	1.2
◇ Mechanical properties							
Max. operating temperature [°C]		125	125	125			
Min. inside bend radius [mm]		6.4	6.4	6.4			
Standard length [m]		1 or 2	1 or 2	1 or 2			

◆ SC-219 series

Nonmagnetic

Superconducting

Part number		SC-219/50-PBC-PBC	SC-219/50-NbTi-NbTi	SC-219/50-B-SS			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	2.19	2.19	2.19			
	Material	Phosphor bronze	Niobium Titanium	Stainless steel			
Dielectric	Diameter +/- 0.0254 [mm]	1.67	1.67	1.67			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.51	0.51	0.51			
	Material	Phosphor bronze	Niobium Titanium	Beryllium copper			
Thermal conductivity at 4K [W·cm/K]		2.20E-04	2.64E-05	8.13E-05			
Conductor Resistance at 300K [Ω /m]	Center cond.	0.77	3.62	0.50			
	Outer cond.	0.07	0.48	0.44			
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-1.5	50+/-2.0	50+/-2.0			
Voltage withstanding VRMS(60Hz)		2500	2500	2500			
Max. operating frequency [GHz]		61	61	61			
Capacitance (Average) [pF/m]		95.2	95.2	95.5			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	1.3	1.0	3.0	Less than 0.3dB	1.4	1.1
	1.0GHz	1.9	1.4	4.3		2.0	1.6
	5.0GHz	4.3	3.2	9.6		4.4	3.5
	10.0GHz	6.1	4.5	13.6		6.2	4.9
	20.0GHz	8.8	6.4	19.4		8.8	7.0
◇ Mechanical properties							
Max. operating temperature [°C]		125	100	100			
Min. inside bend radius [mm]		6.4	10	6.4			
Standard length [m]		1 or 2	1	1 or 2			

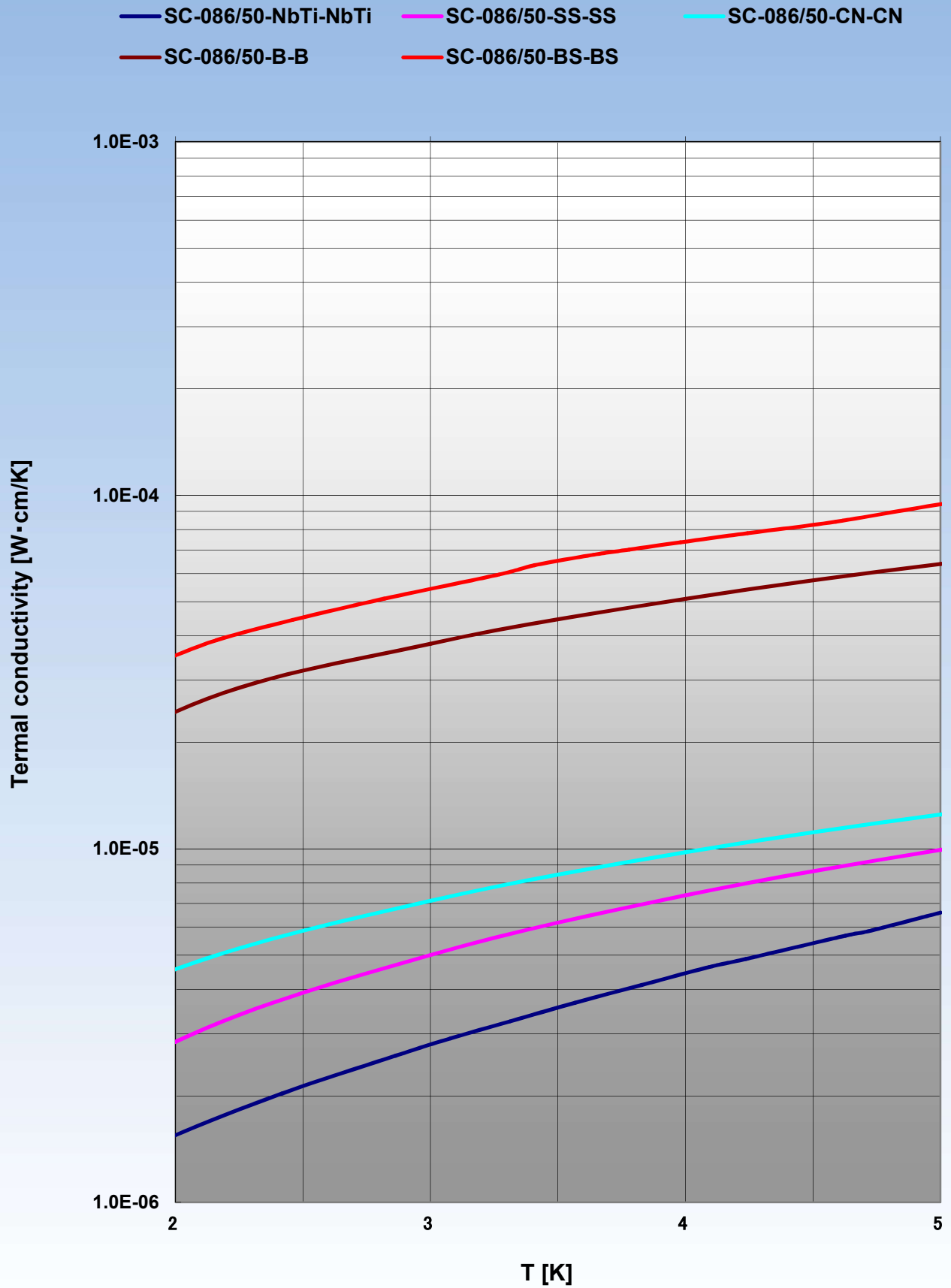
◆ SC-358 series

Part number		SC-358/50-SS-SS	SC-358/50-SSS-SS	SC-358/50-CN-CN			
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	3.58	3.58	3.58			
	Material	304 Stainless steel	304 Stainless steel	Cupornickel			
Dielectric	Diameter +/- 0.0254 [mm]	2.98	2.98	2.98			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter +/- 0.013 [mm]	0.91	0.91	0.91			
	Material	304 Stainless steel	Silver plated 304SUS	Cupornickel			
Thermal conductivity at 4K [W·cm/K]		1.02E-04	3.78E-04	1.35E-04			
Conductor Resistance at 300K [Ω /m]	Center cond.	1.12	0.67	0.57			
	Outer cond.	0.27	0.24	0.13			
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-1.0	50+/-1.0	50+/-1.0			
Voltage withstanding VRMS(60Hz)		5000	5000	5000			
Max. operating frequency [GHz]		34	34	34			
Capacitance (Average) [pF/m]		95.2	95.2	95.2			
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	1.7	1.0	0.6	0.3	1.2	0.9
	1.0GHz	2.3	1.5	0.8	0.4	1.7	1.3
	5.0GHz	5.2	3.3	1.8	0.8	3.8	2.9
	10.0GHz	7.4	4.7	2.6	1.2	5.4	4.1
	20.0GHz	10.5	6.6	3.7	1.7	7.6	5.7
◇ Mechanical properties							
Max. operating temperature [°C]		125	125	125			
Min. inside bend radius [mm]		10	10	6.4			
Standard length [m]		1 or 2	1 or 2	1 or 2			

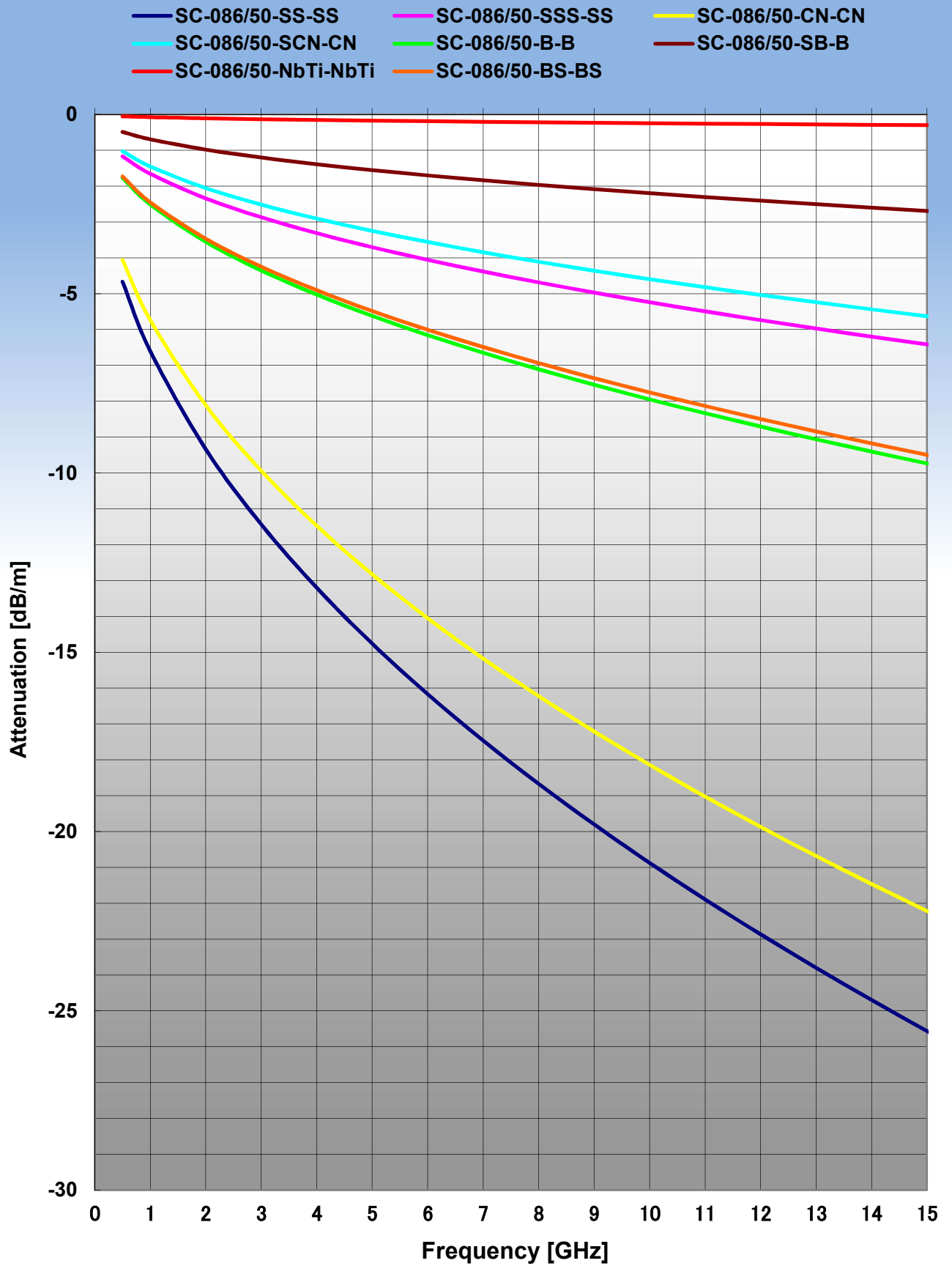
◆ SC-358 series

Part number		SC-358/50-SCN-CN					
◇ Structure/Material							
Outer conductor	Diameter +/- 0.0254 [mm]	3.58					
	Material	Cupronickel					
Dielectric	Diameter +/- 0.0254 [mm]	2.98					
	Material	PTFE					
Center conductor	Diameter +/- 0.013 [mm]	0.91					
	Material	Silver plated Cupronickel					
Thermal conductivity at 4K [W·cm/K]		4.11E-04					
Conductor Resistance at 300K [Ω /m]	Center cond.	0.46					
	Outer cond.	0.12					
◇ Electrical properties							
Characteristic impedance [Ω]		50+/-1.0					
Voltage withstanding VRMS(60Hz)		5000					
Max. operating frequency [GHz]		34					
Capacitance (Average) [pF/m]		95.2					
Attenuation [dB/m] at 300K and 4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	0.5	0.2				
	1.0GHz	0.7	0.3				
	5.0GHz	1.5	0.7				
	10.0GHz	2.1	1.0				
	20.0GHz	3.0	1.5				
◇ Mechanical properties							
Max. operating temperature [°C]		125					
Min. inside bend radius [mm]		6.4					
Standard length [m]		1 or 2					

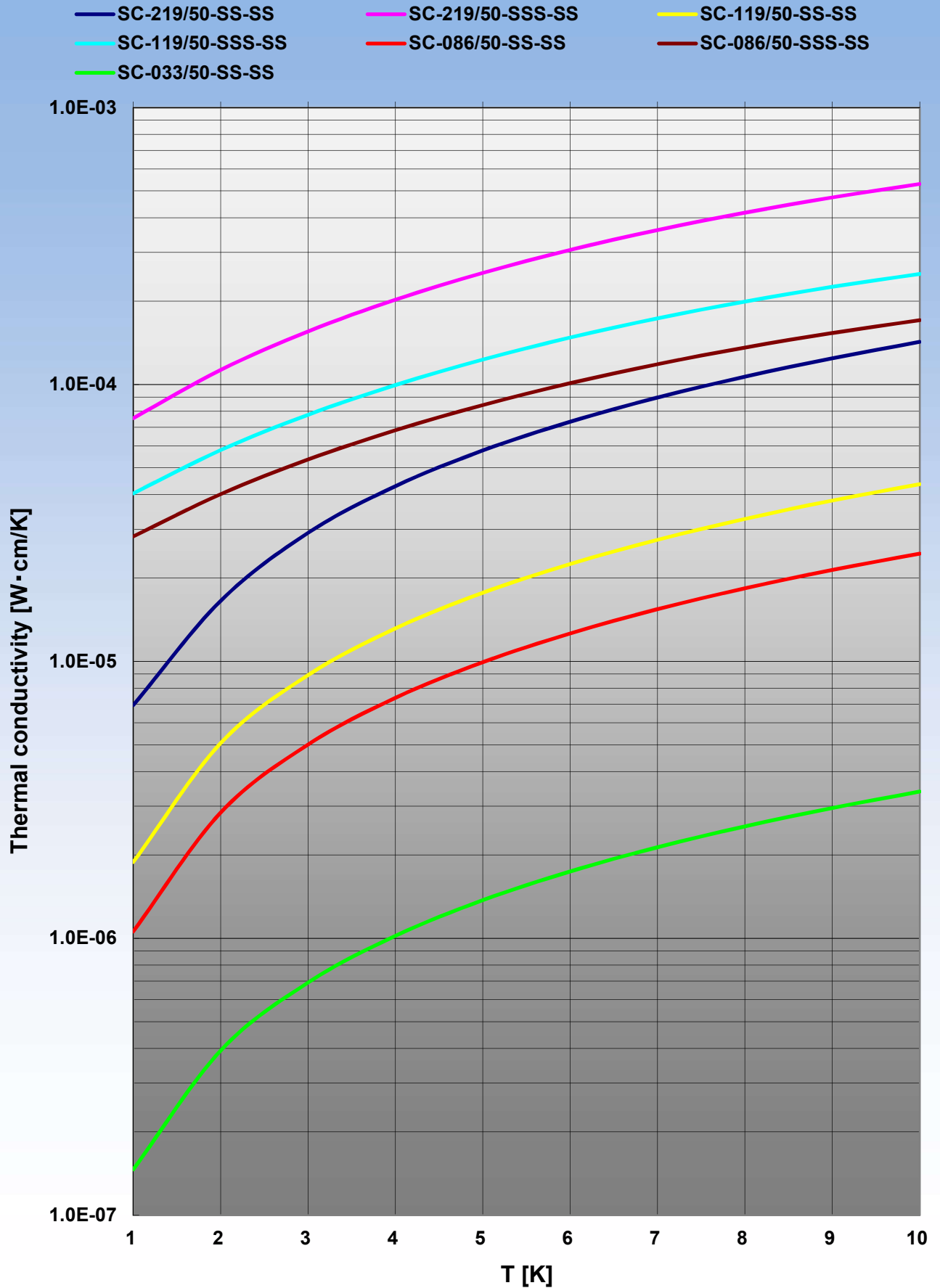
Thermal conductivity of SC-086 series



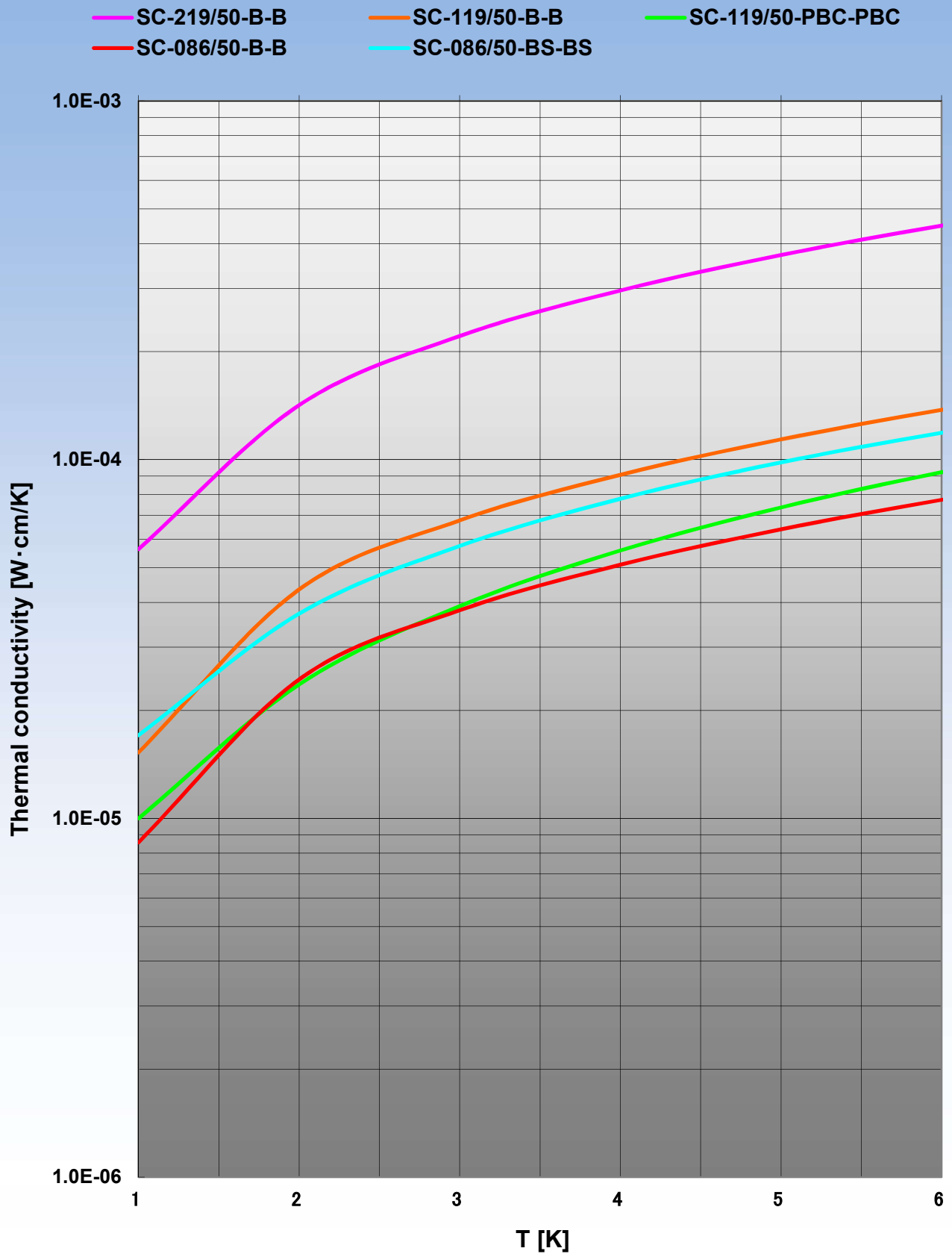
Attenuation of SC-086 series at 4K



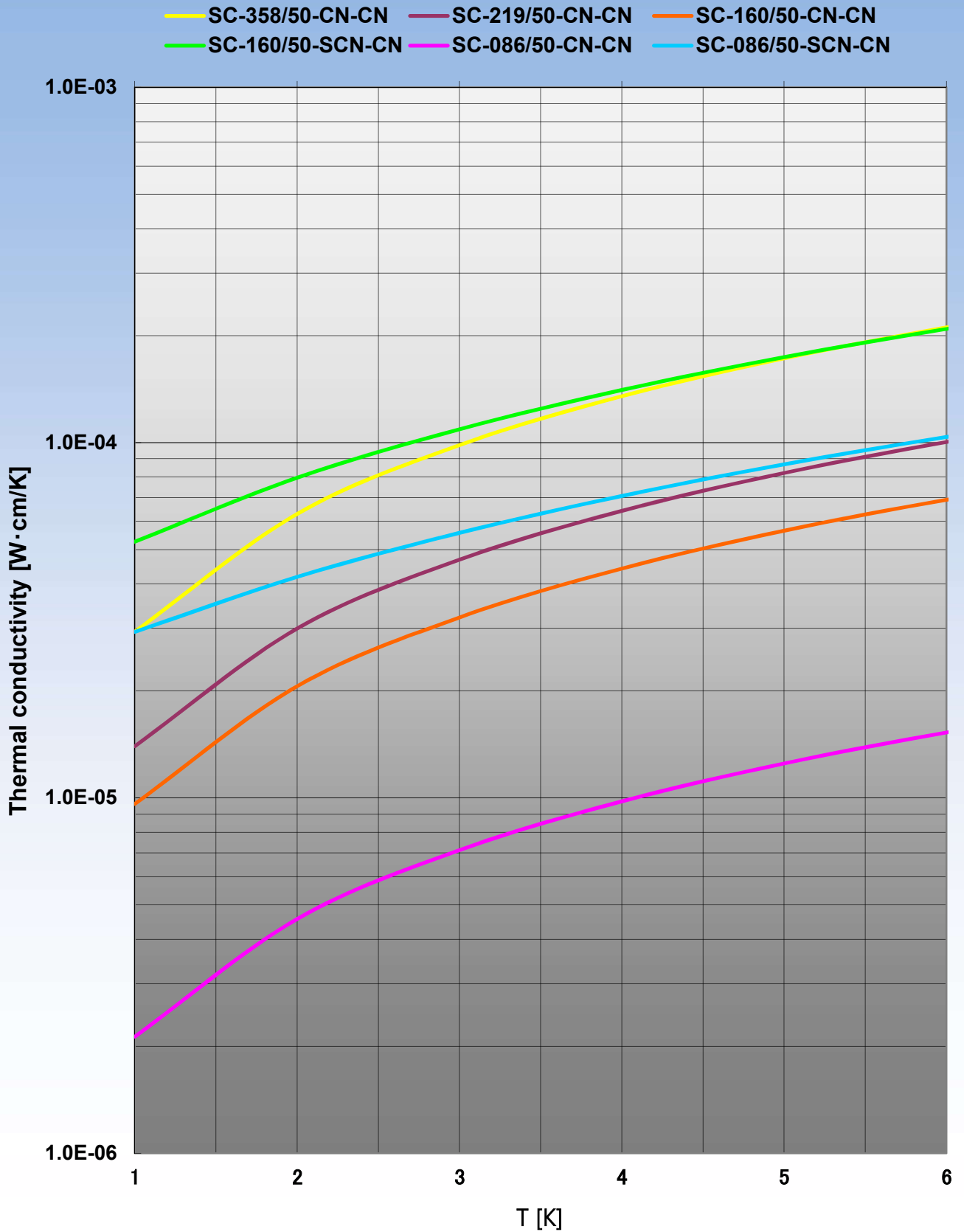
Thermal conductivity of Cryogenic cables Stainless steel



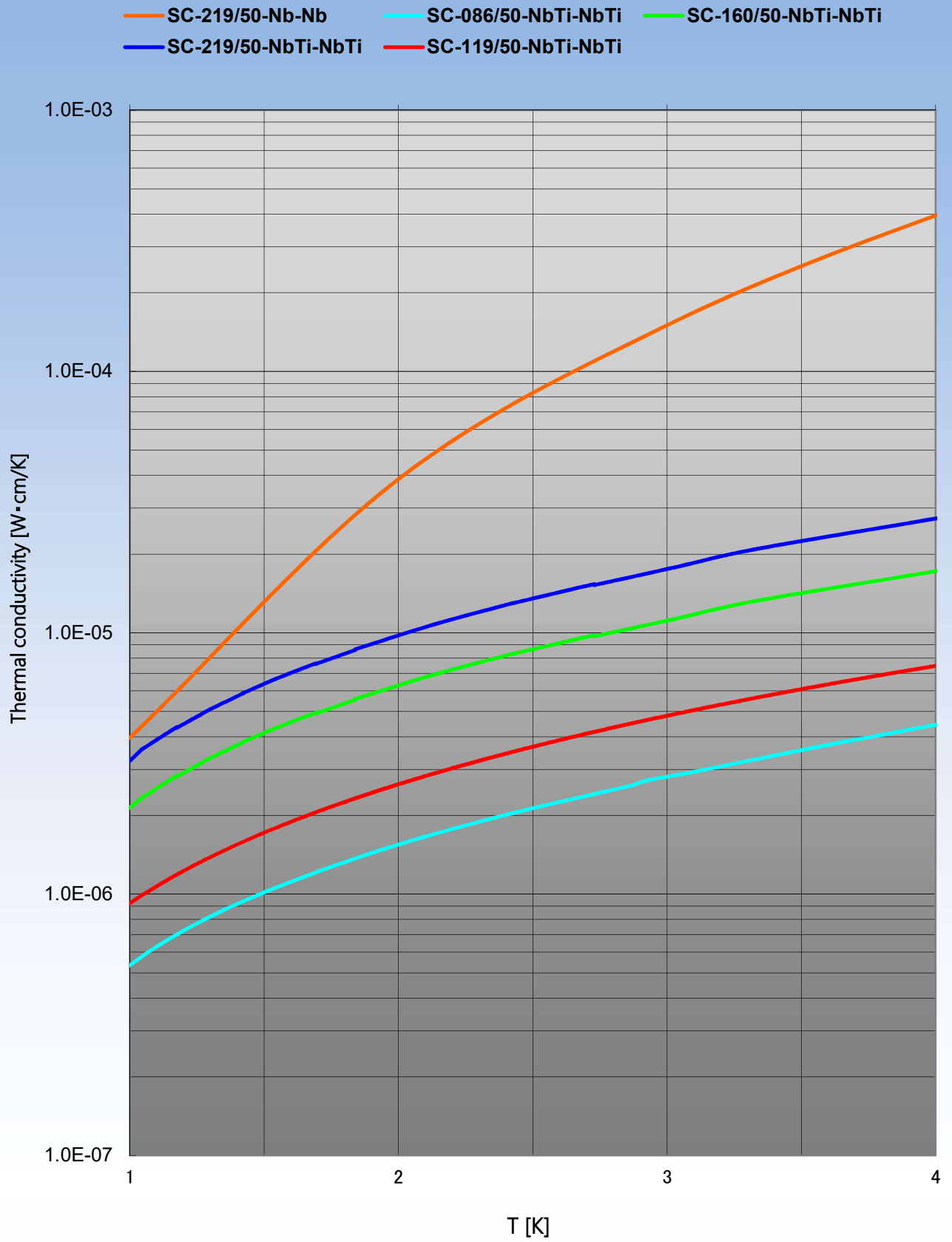
Thermal conductivity of Cryogenic cables Nonmagnetic cables



Thermal conductivity of Cryogenic cables Cupronickel



Thermal conductivity of Superconducting cables





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