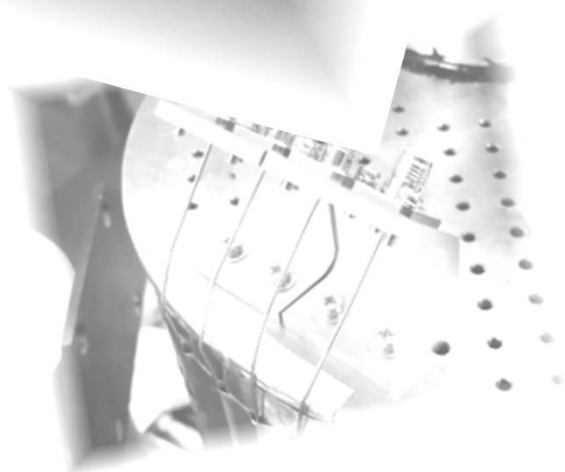
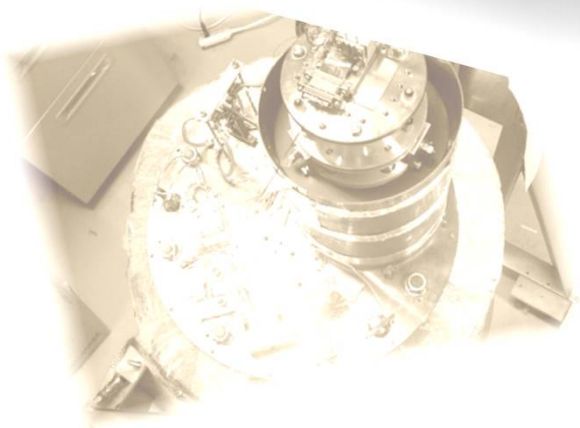
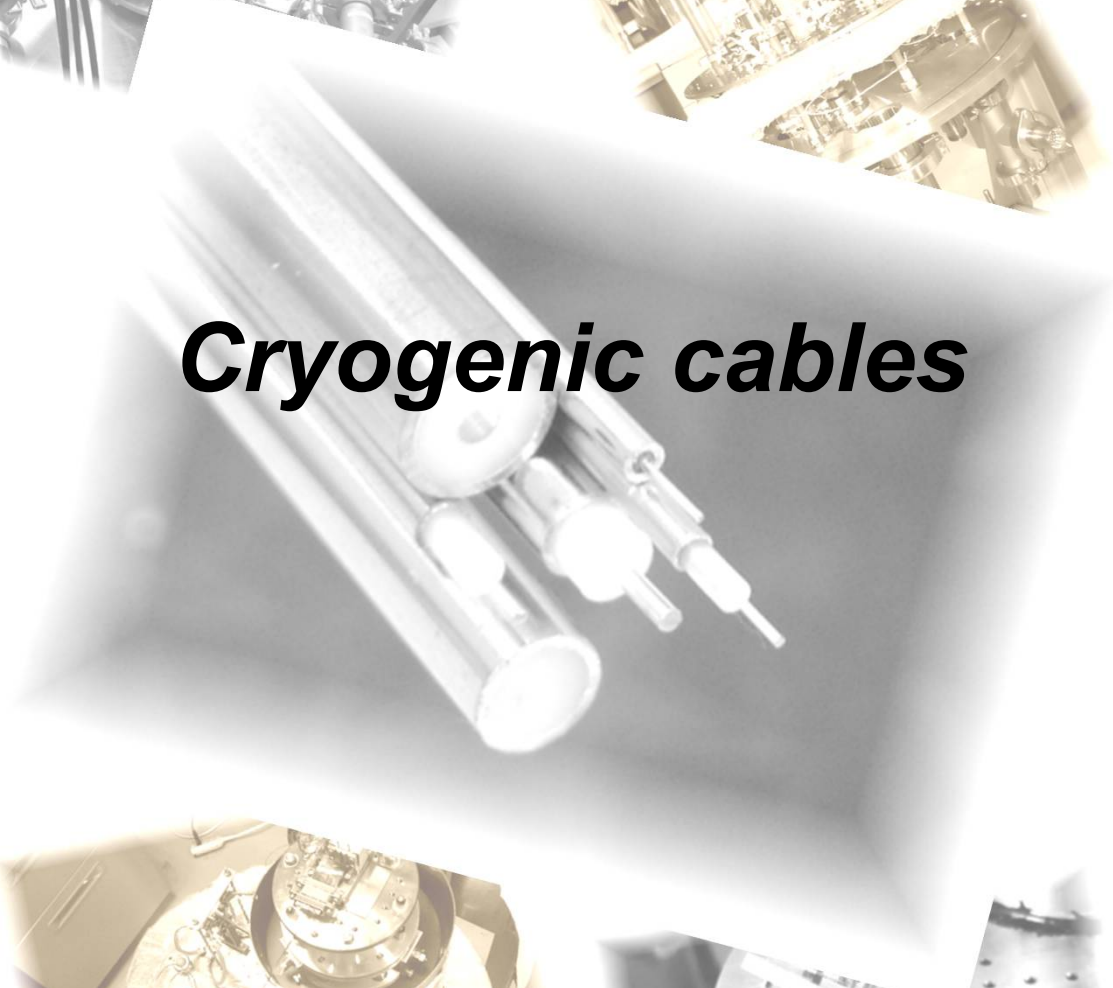


Cryogenic cables



◆ SC-033 series

Part number		SC-033/50-SS-SS	SC-033/50-SSS-SS	SC-033/50-CN-CN			
◇ Structure/Materials							
Outer conductor	Diameter [mm]	0.33 +/- 0.0254	0.33 +/- 0.0254	0.33 +/- 0.0254			
	Material	Stainless steel (SUS304)	Stainless steel (SUS304)	Cupronickel			
Dielectric	Diameter [mm]	0.26 +/- 0.0254	0.26 +/- 0.0254	0.26 +/- 0.0254			
	Material	PFA	PTFE	PFA			
Center conductor	Diameter [mm]	0.08 +/- 0.013	0.08 +/- 0.013	0.08 +/- 0.013			
	Material	Stainless steel (SUS304)	Silver-plated stainless steel (SUS304)	Cupronickel			
◇ Thermal conductivity * @4K [W·cm/K]		1.10E-06	2.62E-05	1.40E-06			
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @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							
Operating temperature [°C]		-40 to +100	-40 to +100	-40 to +100			
Min. inside bend radius [mm]		1.5	1.5	1.3			
Standard length (s) [m]		1	1	1			

◆ SC-033 series

Part number		SC-033/50-NbTi-CN					
◇ Structure/Materials							
Outer conductor	Diameter [mm]	0.33 +/- 0.0254					
	Material	Cupronickel					
Dielectric	Diameter [mm]	0.26 +/- 0.0254					
	Material	PFA					
Center conductor	Diameter [mm]	0.08 +/- 0.013					
	Material	Niobium titanium					
◇ Thermal conductivity * @4K [W·cm/K]		1.00E-06					
◇ Electrical properties*							
Characteristic impedance [ohms]		50 +/- 3.0					
Voltage withstanding VRMS @60Hz		500					
Max. operating frequency [GHz]		392					
Capacitance (Average) [pF/m]		96.2					
Attenuation [dB/m] @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							
Operating temperature [°C]		-40 to +100					
Min. inside bend radius [mm]		1.3					
Standard length (s) [m]		1					

* Electrical properties are reference data/value by measurement and calculation.

◆ SC-040 series

Part number		SC-040/50-CN-CN					
◇ Structure/Materials							
Outer conductor	Diameter [mm]	0.40 +/- 0.0254					
	Material	Cupronickel					
Dielectric	Diameter [mm]	0.26 +/- 0.0254					
	Material	PFA					
Center conductor	Diameter [mm]	0.08 +/- 0.013					
	Material	Cupronickel					
◇ Thermal conductivity * @4K [W·cm/K]		2.80E-06					
◇ Electrical properties*							
Characteristic impedance [ohms]		50 +/- 3.0					
Voltage withstanding VRMS @60Hz		500					
Max. operating frequency [GHz]		392					
Capacitance (Average) [pF/m]		96.2					
Attenuation [dB/m] @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							
Operating temperature [°C]		-40 to +100					
Min. inside bend radius [mm]		1.3					
Standard length (s) [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/Materials							
Outer conductor	Diameter [mm]	0.86 +/- 0.0254		0.86 +/- 0.0254		0.86 +/- 0.0254	
	Material	Cupronickel		Cupronickel		Stainless steel (SUS304)	
Dielectric	Diameter [mm]	0.66 +/- 0.0254		0.66 +/- 0.0254		0.66 +/- 0.0254	
	Material	PTFE		PTFE		PTFE	
Center conductor	Diameter [mm]	0.203 +/- 0.013		0.203 +/- 0.013		0.203 +/- 0.013	
	Material	Cupronickel		Silver-plated cupronickel		Stainless steel (SUS304)	
◇ Thermal conductivity * @4K [W·cm/K]		9.80E-06		7.07E-05		7.40E-06	
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @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							
Operating temperature [°C]		-40 to +100		-40 to +100		-40 to +100	
Min. inside bend radius [mm]		3.2		3.2		3.2	
Standard length (s) [m]		1 or 2		1 or 2		1 or 2	

* Electrical properties are reference data/value by measurement and calculation.

◆ **SC-086 series**

Non-magnetic

Non-magnetic

Part number		SC-086/50-SSS-SS	SC-086/50-B-B	SC-086/50-SB-B			
◇ Structure/Materials							
Outer conductor	Diameter [mm]	0.86 +/- 0.0254	0.86 +/- 0.0254	0.86 +/- 0.0254			
	Material	Stainless steel (SUS304)	Beryllium copper	Beryllium copper			
Dielectric	Diameter [mm]	0.66 +/- 0.0254	0.66 +/- 0.0254	0.66 +/- 0.0254			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter [mm]	0.203 +/- 0.013	0.203 +/- 0.013	0.203 +/- 0.013			
	Material	Silver plated-stainless steel (SUS304)	Beryllium copper	Silver-plated beryllium copper			
◇ Thermal conductivity * @4K [W·cm/K]		6.84E-05	5.10E-05	1.72E-04			
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @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							
Operating temperature [°C]		-40 to +100	-40 to +100	-40 to +100			
Min. inside bend radius [mm]		3.2	3.2	3.2			
Standard length (s) [m]		1 or 2	1 or 2	1 or 2			

◆ **SC-086 series**

Superconducting

Non-magnetic

Part number		SC-086/50-NbTi-NbTi	SC-086/50-BS-BS				
◇ Structure/Materials							
Outer conductor	Diameter [mm]	0.90 +/- 0.04	0.86 +/- 0.0254				
	Material	Niobium titanium	Brass				
Dielectric	Diameter [mm]	0.66 +/- 0.0254	0.66 +/- 0.0254				
	Material	PTFE	PTFE				
Center conductor	Diameter [mm]	0.203 +/- 0.013	0.203 +/- 0.013				
	Material	Niobium titanium	Brass				
◇ Thermal conductivity * @4K [W·cm/K]		4.63E-06	7.40E-05				
◇ Electrical properties*							
Characteristic impedance [ohms]		50 +/- 3.0	50 +/- 3.0				
Voltage withstanding VRMS @60Hz		2000	2000				
Max. operating frequency [GHz]		154	154				
Capacitance (Average) [pF/m]		96.2	96.2				
Attenuation [dB/m] @300K and @4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	6.8	Less than 0.5	2.2	1.7		
	1.0GHz	9.6		3.1	2.5		
	5.0GHz	21.6		7.1	5.5		
	10.0GHz	30.5		10.1	7.8		
	20.0GHz	43.1		14.4	11.0		
◇ Mechanical properties							
Operating temperature [°C]		-40 to +90	-40 to +100				
Min. inside bend radius [mm]		3.2	4.0				
Standard length (s) [m]		1	1 or 2				

* Electrical properties are reference data/value by measurement and calculation.

◆ SC-119 series

Part number		SC-119/50-SS-SS	SC-119/50-SS-SS	SC-119/50-SS-SS	SC-119/50-SS-SS	SC-119/50-CN-CN	
◇ Structure/Materials							
Outer conductor	Diameter [mm]	1.19 +/- 0.0254	1.19 +/- 0.0254	1.19 +/- 0.0254	1.19 +/- 0.0254	1.19 +/- 0.0254	
	Material	Stainless steel (SUS304)	Stainless steel (SUS304)	Stainless steel (SUS304)	Stainless steel (SUS304)	Cupronickel	
Dielectric	Diameter [mm]	0.94 +/- 0.0254	0.94 +/- 0.0254	0.94 +/- 0.0254	0.94 +/- 0.0254	0.94 +/- 0.0254	
	Material	PTFE	PTFE	PTFE	PTFE	PTFE	
Center conductor	Diameter [mm]	0.287 +/- 0.013	0.287 +/- 0.013	0.287 +/- 0.013	0.287 +/- 0.013	0.287 +/- 0.013	
	Material	Stainless steel (SUS304)	Silver-plated stainless steel (SUS304)	Silver-plated stainless steel (SUS304)	Silver-plated stainless steel (SUS304)	Cupronickel	
◇ Thermal conductivity * @4K [W·cm/K]		1.32E-05	1.32E-05	9.95E-05	9.95E-05	1.74E-05	
◇ Electrical properties*							
Characteristic impedance [ohms]		50 +/- 2.5	50 +/- 2.5	50 +/- 2.5	50 +/- 2.5	50 +/- 2.5	
Voltage withstanding VRMS @60Hz		2000	2000	2000	2000	2000	
Max. operating frequency [GHz]		108	108	108	108	108	
Capacitance (Average) [pF/m]		95.2	95.2	95.2	95.2	95.2	
Attenuation [dB/m] @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							
Operating temperature [°C]		-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	
Min. inside bend radius [mm]		3.2	3.2	3.2	3.2	3.2	
Standard length (s) [m]		1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	

◆ SC-119 series

Non-magnetic

Non-magnetic

Part number		SC-119/50-SCN-CN	SC-119/50-B-B	SC-119/50-B-B	SC-119/50-SB-B	SC-119/50-SB-B	
◇ Structure/Materials							
Outer conductor	Diameter [mm]	1.19 +/- 0.0254	1.19 +/- 0.0254	1.19 +/- 0.0254	1.19 +/- 0.0254	1.19 +/- 0.0254	
	Material	Cupronickel	Beryllium copper	Beryllium copper	Beryllium copper	Beryllium copper	
Dielectric	Diameter [mm]	0.94 +/- 0.0254	0.94 +/- 0.0254	0.94 +/- 0.0254	0.94 +/- 0.0254	0.94 +/- 0.0254	
	Material	PTFE	PTFE	PTFE	PTFE	PTFE	
Center conductor	Diameter [mm]	0.287 +/- 0.013	0.287 +/- 0.013	0.287 +/- 0.013	0.287 +/- 0.013	0.287 +/- 0.013	
	Material	Silver-plated cupronickel	Beryllium copper	Beryllium copper	Beryllium copper	Silver-plated beryllium copper	
◇ Thermal conductivity * @4K [W·cm/K]		1.04E-04	1.04E-04	9.10E-05	9.10E-05	1.77E-04	
◇ Electrical properties*							
Characteristic impedance [ohms]		50 +/- 2.5	50 +/- 2.5	50 +/- 2.5	50 +/- 2.5	50 +/- 2.5	
Voltage withstanding VRMS @60Hz		2000	2000	2000	2000	2000	
Max. operating frequency [GHz]		108	108	108	108	108	
Capacitance (Average) [pF/m]		95.2	95.2	95.6	95.6	95.6	
Attenuation [dB/m] @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							
Operating temperature [°C]		-40 to +100	-40 to +100	-40 to +100	-40 to +100	-40 to +100	
Min. inside bend radius [mm]		3.2	3.2	3.2	3.2	3.2	
Standard length (s) [m]		1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	

* Electrical properties are reference data/value by measurement and calculation.

◆ SC-119 series

Superconducting Non-magnetic

Part number		SC-119/50-NbTi-NbTi	SC-119/50-PBC-PBC				
◇ Structure/Materials							
Outer conductor	Diameter [mm]	1.19 +/- 0.0254	1.19 +/- 0.0254				
	Material	Niobium titanium	Phosphor bronze				
Dielectric	Diameter [mm]	0.94 +/- 0.0254	0.94 +/- 0.0254				
	Material	PTFE	PTFE				
Center conductor	Diameter [mm]	0.287 +/- 0.013	0.287 +/- 0.013				
	Material	Niobium titanium	Phosphor bronze				
◇ Thermal conductivity * @4K [W·cm/K]		7.14E-06	5.80E-05				
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @300K and @4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	5.5	Less than 0.4	2.3	1.8		
	1.0GHz	7.8		3.2	2.5		
	5.0GHz	17.3		7.2	5.7		
	10.0GHz	24.5		10.3	8.0		
	20.0GHz	34.7		14.8	11.3		
◇ Mechanical properties							
Operating temperature [°C]		-40 to +90	-40 to +100				
Min. inside bend radius [mm]		10.0	3.2				
Standard length (s) [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/Materials							
Outer conductor	Diameter [mm]	1.60 +/- 0.0254	1.60 +/- 0.0254	1.60 +/- 0.0254			
	Material	Cupronickel	Cupronickel	Niobium titanium			
Dielectric	Diameter [mm]	1.05 +/- 0.0254	1.05 +/- 0.0254	1.05 +/- 0.0254			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter [mm]	0.32 +/- 0.013	0.32 +/- 0.013	0.32 +/- 0.013			
	Material	Cupronickel	Silver-plated cupronickel	Niobium titanium			
◇ Thermal conductivity * @4K [W·cm/K]		4.42E-05	1.41E-04	1.66E-05			
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @300K and @4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	3.4	2.6	1.3	0.6	4.3	Less than 0.4
	1.0GHz	4.8	3.6	1.9	0.9	6.1	
	5.0GHz	10.8	8.1	4.2	2.0	13.7	
	10.0GHz	15.2	11.5	6.0	2.9	19.4	
	20.0GHz	21.5	16.2	8.5	4.1	27.5	
◇ Mechanical properties							
Operating temperature [°C]		-40 to +100	-40 to +100	-40 to +90			
Min. inside bend radius [mm]		3.0	3.0	6.4			
Standard length (s) [m]		1 or 2	1 or 2	1			

* Electrical properties are reference data/value by measurement and calculation.

◆ SC-219 series

Part number		SC-219/50-SS-SS	SC-219/50-SSS-SS	SC-219/50-CN-CN			
◇ Structure/Materials							
Outer conductor	Diameter [mm]	2.19 +/- 0.0254	2.19 +/- 0.0254	2.19 +/- 0.0254			
	Material	Stainless steel (SUS304)	Stainless steel (SUS304)	Cupronickel			
Dielectric	Diameter [mm]	1.67 +/- 0.0254	1.67 +/- 0.0254	1.67 +/- 0.0254			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter [mm]	0.51 +/- 0.013	0.51 +/- 0.013	0.51 +/- 0.013			
	Material	Stainless steel (SUS304)	Silver-plated stainless steel (SUS304)	Cupronickel			
◇ Thermal conductivity * @4K [W·cm/K]		4.30E-05	2.02E-04	6.30E-05			
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @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							
Operating temperature [°C]		-40 to +125	-40 to +125	-40 to +125			
Min. inside bend radius [mm]		6.4	6.4	3.2			
Standard length (s) [m]		1 or 2	1 or 2	1 or 2			

◆ SC-219 series

Non-magnetic

Non-magnetic

Part number		SC-219/50-SCN-CN	SC-219/50-B-B	SC-219/50-SB-B			
◇ Structure/Materials							
Outer conductor	Diameter [mm]	2.19 +/- 0.0254	2.19 +/- 0.0254	2.19 +/- 0.0254			
	Material	Cupronickel	Beryllium copper	Beryllium copper			
Dielectric	Diameter [mm]	1.67 +/- 0.0254	1.67 +/- 0.0254	1.67 +/- 0.0254			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter [mm]	0.51 +/- 0.013	0.51 +/- 0.013	0.51 +/- 0.013			
	Material	Silver-plated cupronickel	Beryllium copper	Silver-plated beryllium copper			
◇ Thermal conductivity * @4K [W·cm/K]		2.18E-04	2.96E-04	4.88E-04			
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @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	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							
Operating temperature [°C]		-40 to +125	-40 to +125	-40 to +125			
Min. inside bend radius [mm]		6.4	6.4	6.4			
Standard length (s) [m]		1 or 2	1 or 2	1 or 2			

* Electrical properties are reference data/value by measurement and calculation.

◆ **SC-219 series**

Superconducting

Part number				SC-219/50-NbTi-NbTi		SC-219/50-B-SS	
◇ Structure/Materials							
Outer conductor	Diameter [mm]			2.19 +/- 0.0254		2.19 +/- 0.0254	
	Material			Niobium titanium		Stainless steel (SUS304)	
Dielectric	Diameter [mm]			1.67 +/- 0.0254		1.67 +/- 0.0254	
	Material			PTFE		PTFE	
Center conductor	Diameter [mm]			0.51 +/- 0.013		0.51 +/- 0.013	
	Material			Niobium titanium		Beryllium copper	
◇ Thermal conductivity * @4K [W·cm/K]				2.64E-05		8.13E-05	
◇ Electrical properties*							
Characteristic impedance [ohms]				50 +/- 2.0		50 +/- 2.0	
Voltage withstanding VRMS @60Hz				2500		2500	
Max. operating frequency [GHz]				61		61	
Capacitance (Average) [pF/m]				95.2		95.5	
Attenuation [dB/m] @300K and @4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz			2.7	Less than 0.3	1.4	1.1
	1.0GHz			3.9		2.0	1.6
	5.0GHz			8.6		4.4	3.5
	10.0GHz			12.2		6.2	4.9
	20.0GHz			17.3		8.8	7.0
◇ Mechanical properties							
Operating temperature [°C]				-40 to +100		-40 to +125	
Min. inside bend radius [mm]				10.0		6.4	
Standard length (s) [m]				1		1 or 2	

◆ **SC-219 series**

Non-magnetic

Part number		SC-219/50-PBC-PBC					
◇ Structure/Materials							
Outer conductor	Diameter [mm]	2.19 +/- 0.0254					
	Material	Phosphor bronze					
Dielectric	Diameter [mm]	1.67 +/- 0.0254					
	Material	PTFE					
Center conductor	Diameter [mm]	0.51 +/- 0.013					
	Material	Phosphor bronze					
◇ Thermal conductivity * @4K [W·cm/K]		2.20E-04					
◇ Electrical properties*							
Characteristic impedance [ohms]		50 +/- 1.5					
Voltage withstanding VRMS @60Hz		2500					
Max. operating frequency [GHz]		61					
Capacitance (Average) [pF/m]		95.2					
Attenuation [dB/m] @300K and @4K	FRQ.	300K	4K	300K	4K	300K	4K
	0.5GHz	1.3	1.0				
	1.0GHz	1.9	1.4				
	5.0GHz	4.3	3.2				
	10.0GHz	6.1	4.5				
	20.0GHz	8.8	6.4				
◇ Mechanical properties							
Operating temperature [°C]		-40 to +125					
Min. inside bend radius [mm]		6.4					
Standard length (s) [m]		1 or 2					

* Electrical properties are reference data/value by measurement and calculation.

◆ SC-358 series

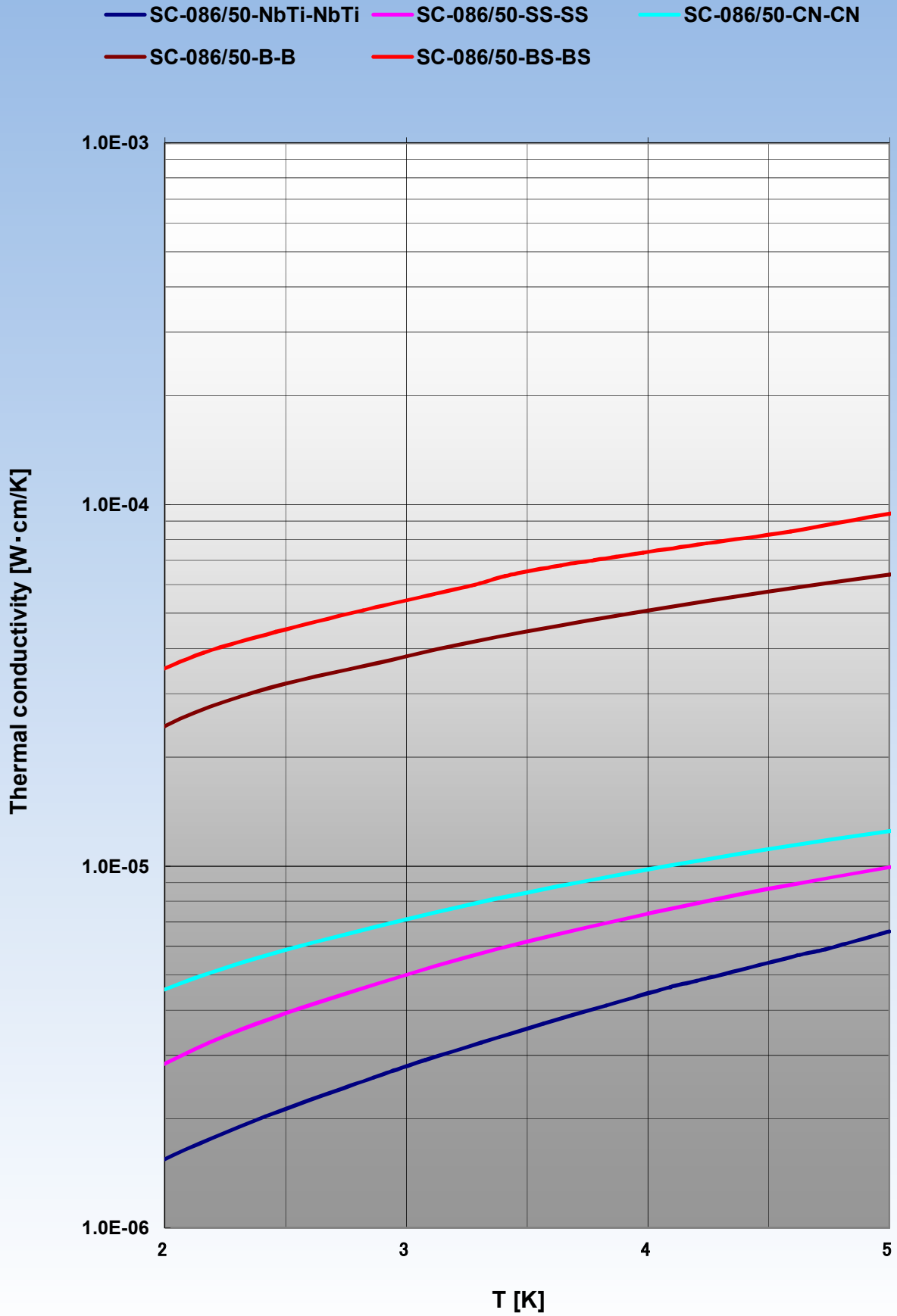
Part number		SC-358/50-SS-SS	SC-358/50-SSS-SS	SC-358/50-CN-CN			
◇ Structure/Materials							
Outer conductor	Diameter [mm]	3.58 +/- 0.0254	3.58 +/- 0.0254	3.58 +/- 0.0254			
	Material	Stainless steel (SUS304)	Stainless steel (SUS304)	Cupronickel			
Dielectric	Diameter [mm]	2.98 +/- 0.0254	2.98 +/- 0.0254	2.98 +/- 0.0254			
	Material	PTFE	PTFE	PTFE			
Center conductor	Diameter [mm]	0.91 +/- 0.013	0.91 +/- 0.013	0.91 +/- 0.013			
	Material	Stainless steel (SUS304)	Silver-plated stainless steel (SUS304)	Cupronickel			
◇ Thermal conductivity * @4K [W·cm/K]		1.02E-04	3.78E-04	1.35E-04			
◇ Electrical properties*							
Characteristic impedance [ohms]		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] @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							
Operating temperature [°C]		-40 to +125	-40 to +125	-40 to +125			
Min. inside bend radius [mm]		10.0	10.0	6.4			
Standard length (s) [m]		1 or 2	1 or 2	1 or 2			

◆ SC-358 series

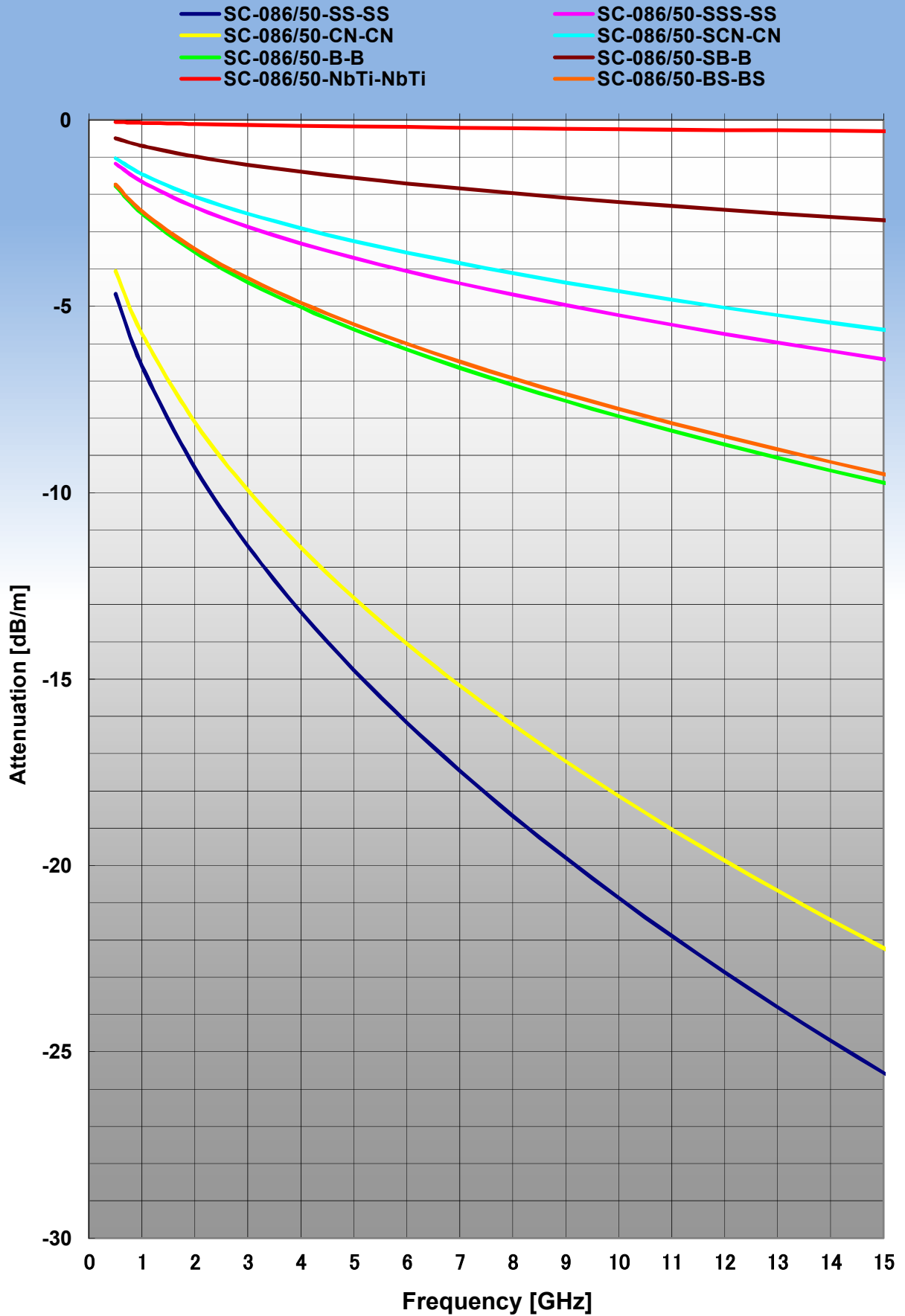
Part number		SC-358/50-SCN-CN					
◇ Structure/Materials							
Outer conductor	Diameter [mm]	3.58 +/- 0.0254					
	Material	Cupronickel					
Dielectric	Diameter [mm]	2.98 +/- 0.0254					
	Material	PTFE					
Center conductor	Diameter [mm]	0.91 +/- 0.013					
	Material	Silver-plated cupronickel					
◇ Thermal conductivity * @4K [W·cm/K]		4.11E-04					
◇ Electrical properties*							
Characteristic impedance [ohms]		50 +/- 1.0					
Voltage withstanding VRMS @60Hz		5000					
Max. operating frequency [GHz]		34					
Capacitance (Average) [pF/m]		95.2					
Attenuation [dB/m] @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							
Operating temperature [°C]		-40 to +125					
Min. inside bend radius [mm]		6.4					
Standard length (s) [m]		1 or 2					

* Electrical properties are reference data/value by measurement and calculation.

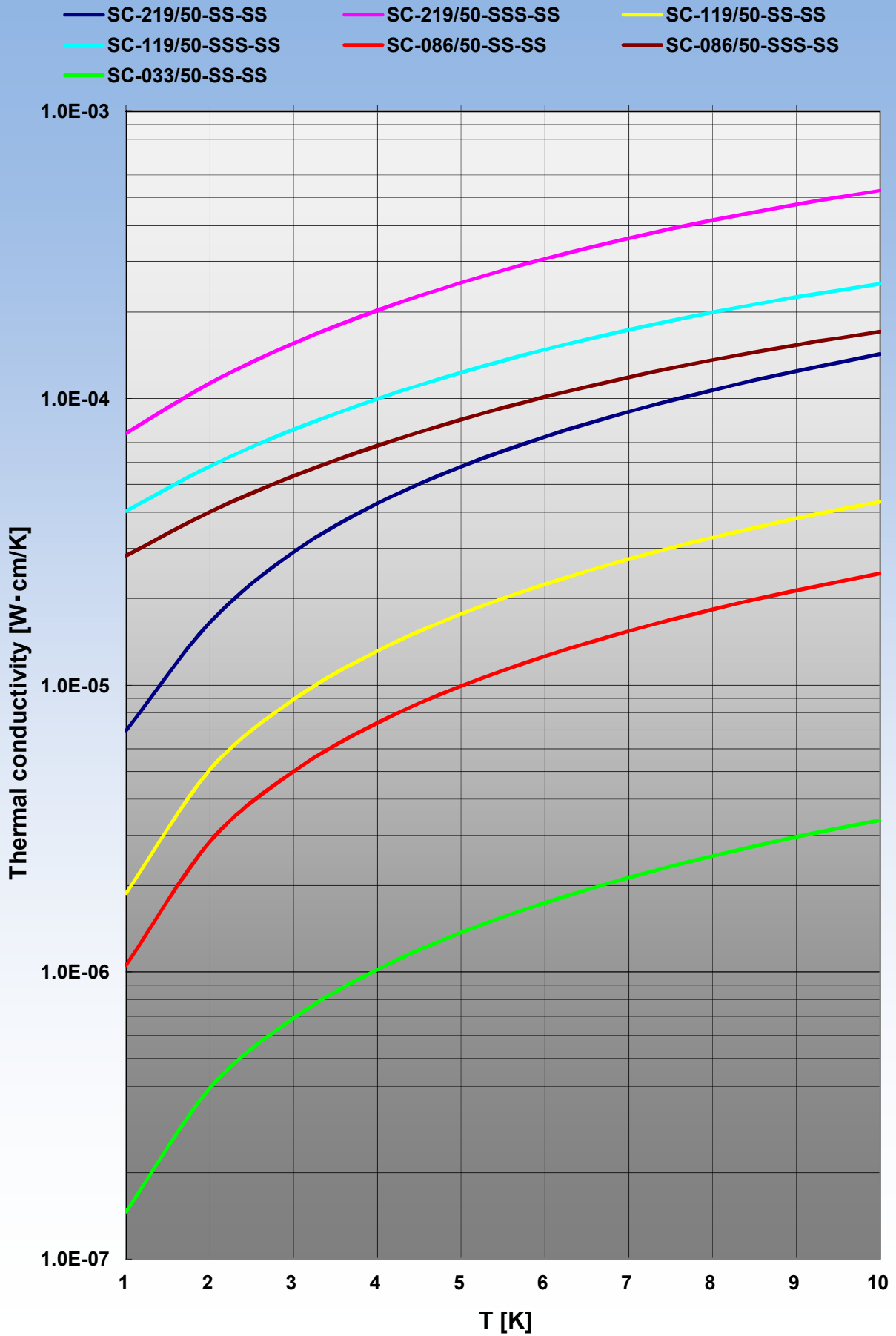
Thermal conductivity of SC-086 series



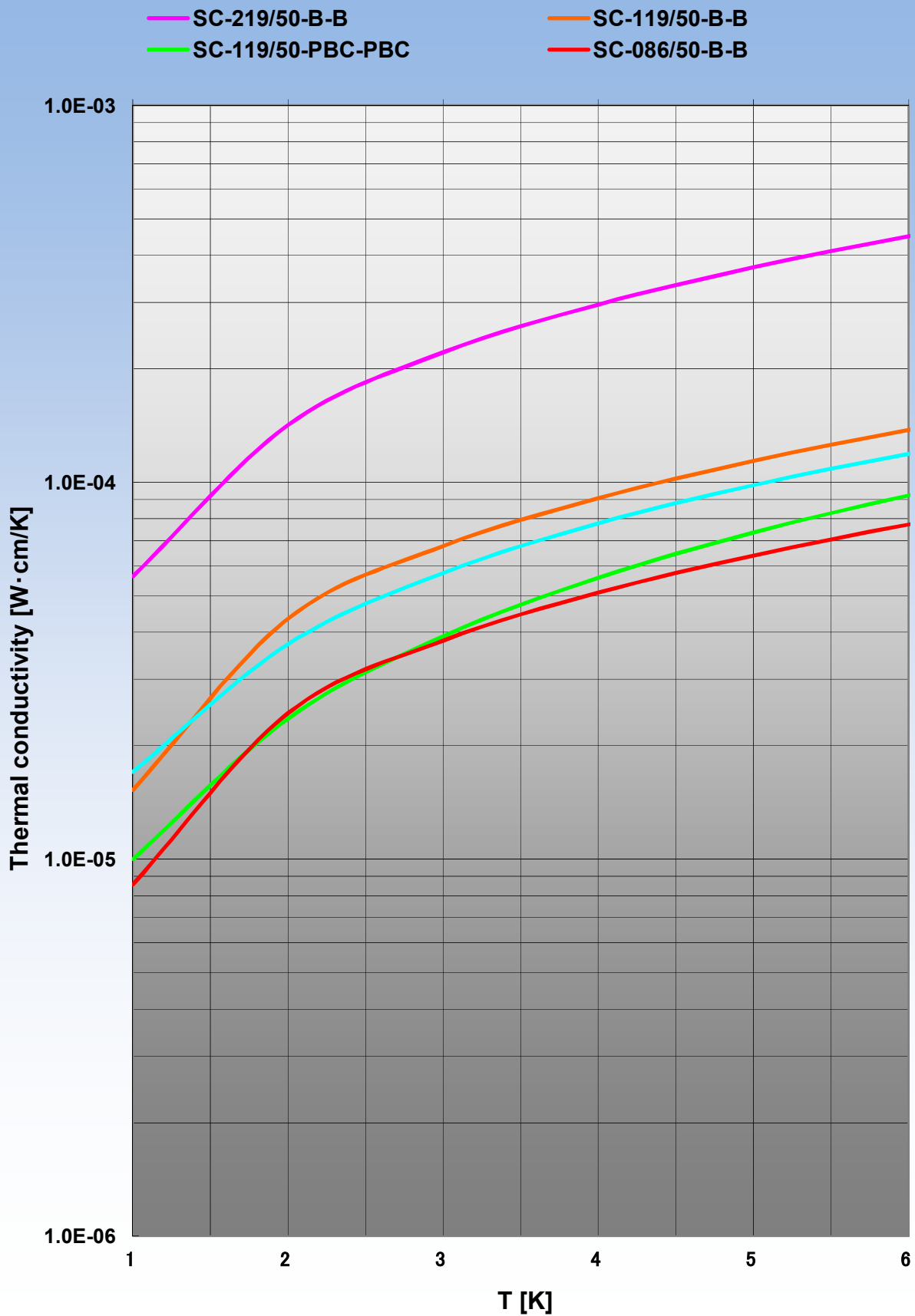
Attenuation of SC-086 series at 4K



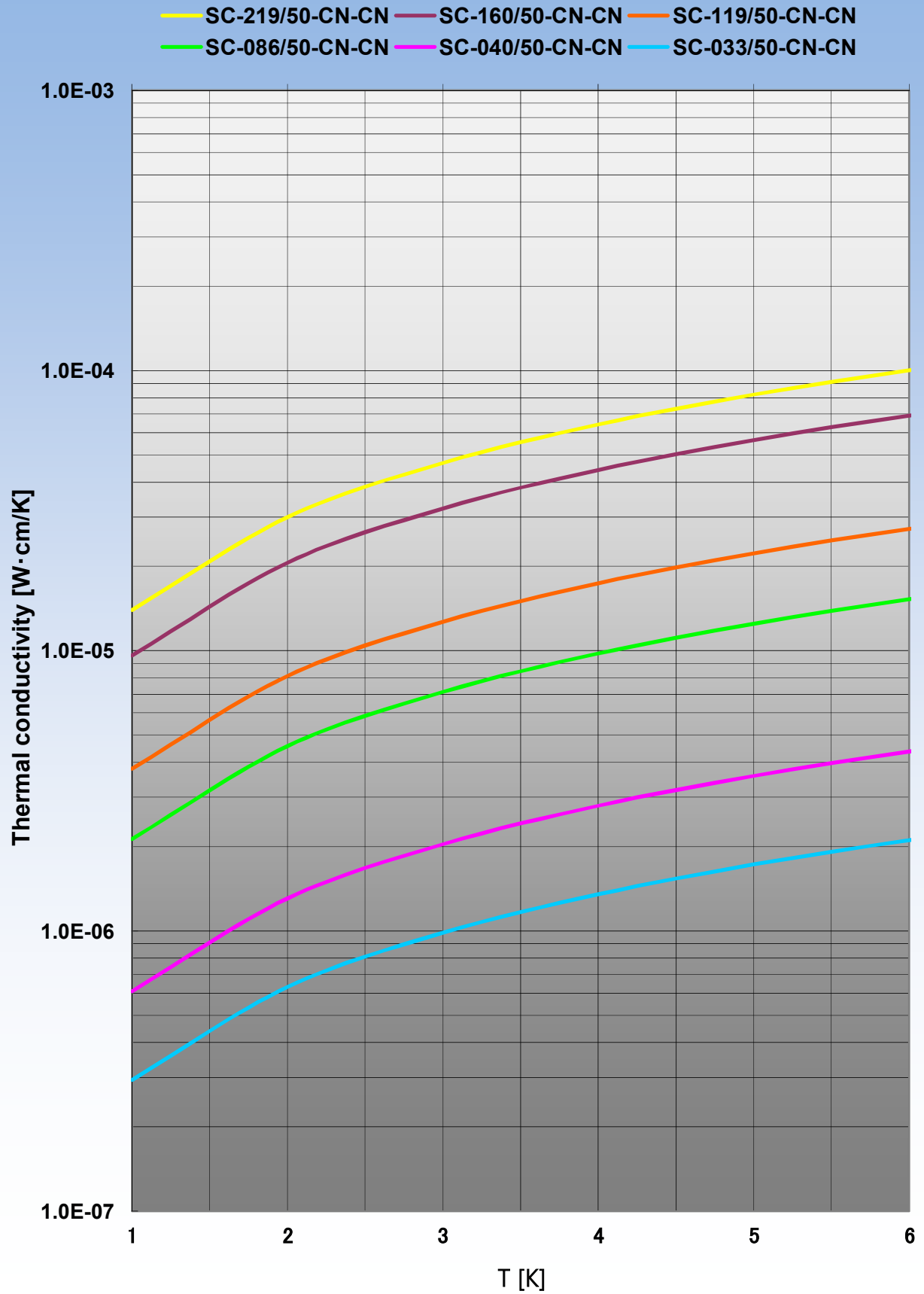
Thermal conductivity of cryogenic cables [Stainless steel]



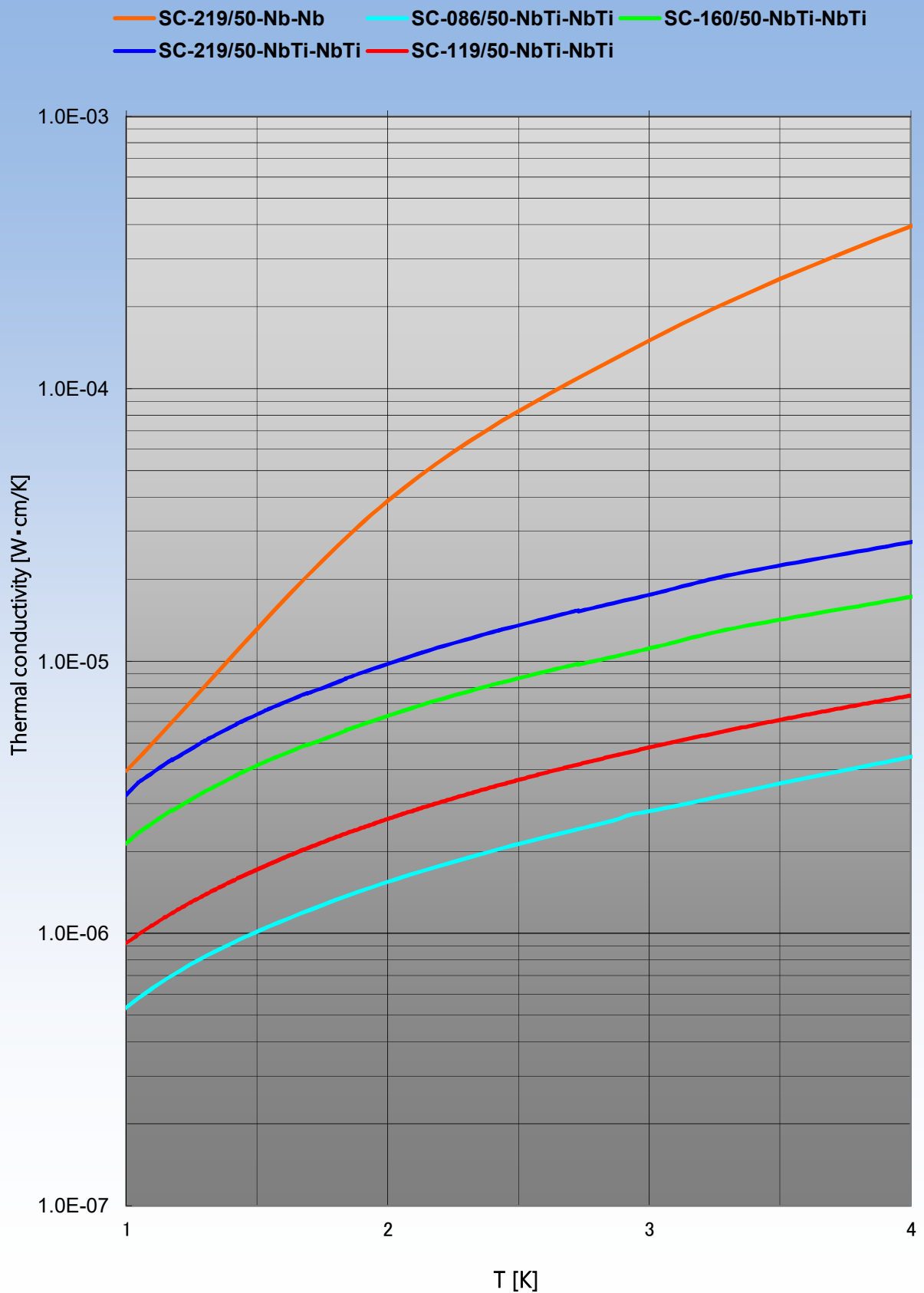
Thermal conductivity of cryogenic cables [Non-magnetic cables]



Thermal conductivity of cryogenic cables [Cupronickel]



Thermal conductivity of superconducting cables





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