

International Standards and Colors

Types Standards	BC	RCA/RCB SCA/SCB	KX KCA	KCB	KCC	EX	JX	TX
	BX	RX/SX	KX	WX	VX	EX	JX	TX
JIS C 1610-1995 (Japan/Color2)								
+ / -	Red White	Red White	Red White	Red White	Red White	Red White	Red White	Red White
Sheath	Gray	Black	Blue	Blue	Blue	Purple	Yellow	Brown
BS 1843 (Britain)								
+ / -	- -	White Blue	Brown Blue	- -	White Blue	Brown Blue	Yellow Blue	White Blue
Sheath	-	Green	Red	-	Red	Brown	Black	Blue
DIN 43710-4 (Germany)								
+ / -	Red Gray	Red White	Red Green	Red Green	- -	Red Black	Red Blue	Red Brown
Sheath	Gray	White	Green	Green		Black	Blue	Brown
NFC - 42 - 324 (France)								
+ / -	- -	Yellow Green	Yellow Brown	Yellow White	Yellow Brown	Yellow Purple	Yellow Black	Yellow Blue
Sheath	-	Green	Yellow	White	Red	Purple	Black	Blue

The Table of Thermal Electro-Motive-Force (EMF) of Thermocouple Extension /Compensating Cables

(unit : μV)

Standards	Types	Tolerances (°C)	- 25°C	0°C	50°C	100°C	150°C	200°C
IEC-60584-2007 (JIS C1610-2012)	RCA	± 2.5		0 ± 30	296 ± 30	647 ± 30		
	RCB	± 5.0		0 ± 60	296 ± 60	647 ± 60	1041 ± 60	
	SCA	± 2.5		0 ± 30	299 ± 30	646 ± 30		
	SCB	± 5.0		0 ± 60	299 ± 60	646 ± 60	1029 ± 60	
	KX-1	± 1.5	- 968 ± 60	0 ± 60	2023 ± 60	4096 ± 60	6138 ± 60	8138 ± 60
	KX-2	± 2.5	- 968 ± 100	0 ± 100	2023 ± 100	4096 ± 100	6138 ± 100	8138 ± 100
	KCA	± 2.5		0 ± 100	2023 ± 100	4096 ± 100	6138 ± 100	
	KCB	± 2.5		0 ± 100	2023 ± 100	4096 ± 100		
	EX-1	± 1.5	- 1432 ± 120	0 ± 120	3048 ± 120	6319 ± 120	9789 ± 120	13421 ± 120
	EX-2	± 2.5	- 1432 ± 200	0 ± 200	3048 ± 200	6319 ± 200	9789 ± 200	13421 ± 200
	JX-1	± 1.5	- 1239 ± 85	0 ± 85	2585 ± 85	5269 ± 85	8010 ± 85	10779 ± 85
	JX-2	± 2.5	- 1239 ± 140	0 ± 140	2585 ± 140	5269 ± 140	8010 ± 140	10779 ± 140
	TX-1	± 0.5	- 940 ± 30	0 ± 30	2036 ± 30	4279 ± 30		
	TX-2	± 1.0	- 940 ± 60	0 ± 60	2036 ± 60	4279 ± 60		
	NX-1	± 1.5	- 646 ± 60	0 ± 60	1340 ± 60	2774 ± 60	4302 ± 60	5913 ± 60
	NX-2	± 2.5	- 646 ± 100	0 ± 100	1340 ± 100	2774 ± 100	4302 ± 100	5913 ± 100
NC	± 2.5		0 ± 100	1340 ± 100	2774 ± 100	4302 ± 100		
ASTM E230-2012	RX	± 5.0		0 ± 26	296 ± 32	647 ± 37	1041 ± 41	
	SX	± 5.0		0 ± 27	299 ± 32	646 ± 37	1029 ± 39	
	KX-SP	± 1.1		0 ± 46	2023 ± 45	4096 ± 45	6138 ± 44	8138 ± 43
	KX-ST	± 2.2		0 ± 102	2023 ± 90	4096 ± 91	6138 ± 88	8138 ± 88
	EX-SP	± 1.0		0 ± 59	3048 ± 63	6319 ± 67	9789 ± 71	13421 ± 74
	EX-ST	± 1.7		0 ± 99	3048 ± 107	6319 ± 114	9789 ± 120	13421 ± 125
	JX-SP	± 1.1		0 ± 55	2585 ± 58	5269 ± 59	8010 ± 60	10779 ± 60
	JX-ST	± 2.2		0 ± 111	2585 ± 115	5269 ± 118	8010 ± 121	10779 ± 122
	TX-SP	± 0.5	- 940 ± 18	0 ± 19	2036 ± 21	4279 ± 23		
	TX-ST	± 1.0	- 940 ± 37	0 ± 39	2036 ± 43	4279 ± 46		
NX-SP	± 1.1		0 ± 28	1340 ± 30	2774 ± 32	4302 ± 34	5913 ± 36	
NX-ST	± 2.2		0 ± 57	1340 ± 60	2774 ± 65	4302 ± 69	5913 ± 72	