

INDUSTRIAL TEMPERATURE LLC & SILSE S.A.

Thermocouple and Extension Grade Alloy

American standard ANSI MC96-1

Type of extension	Type of extension	American standard ANSI MC 96-1			
		mv	At temp °C	Tolerance	
				Standard	Special
KX(+CHROMEL vs -ALUMEL)	(KPX):90%Ni-10%Cr	4.096	100	±2.2°C	
	(KNX):95%Ni+Al-Mn-Si	8.139	200	from 0 °C to 200°C	
EX(+CHROMEL vs -CONSTANTAN)	(EPX):90%Ni-10%Cr	6.319	100	±1.7°C	
	(ENX):44%Ni-balance Cu	13.421	200	from 0 °C to 200°C	
TX(+COPPER vs -CONSTANTAN)	(TPX):100%Cu	4.279	100	±1°C	±0.5°C
	(TNX):44%Ni-balance Cu			from 0 °C to 100°C	from 0 °C to 100°C
JX(+IRON vs -CONSTANTAN)	(JPX):100%Fe	5.269	100	±2.2°C	±1.1°C
	(JNX):44%Ni-balance Cu	10.779	200	from 0 °C to 200°C	from 0 °C to 200°C
NX(+NICROSIL vs -NISIL)	(NPX):84%Ni-14.2%Cr-Si	2.774	100	±2.2°C	
	(NNX):95%Ni-4.3%Si	5.913	200	from 0 °C to 200°C	

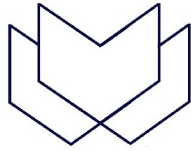


INDUSTRIAL TEMPERATURE LLC & SILSE S.A.

Thermocouple and Extension Grade Alloy

European standard IEC 584-3(DIN EN 60584-3;BS 4937;NFC 42324

Type of extension	Type of extension	American standard ANSI MC 96-1			
		mv	At temp °C	Tolerance	
				Standard	Special
KX(+CHROMEL vs -ALUMEL)	(KPX):90%Ni-10%Cr	4.096	100	±2.5°C	
	(KNX):95%Ni+Al-Mn-Si	8.139	200	from -25 °C to 200°C	
WX(+IRON vs -CONSTANTAN)	(WPX):100%Fe	4.096	100	±2.5°C	
	(WNX):43%Ni-2%Mn2%Fe-balance Cu	8.139	200	from 0 °C to 150°C	
VX(+COPPER vs-CONSTANTAN)	(VPX):100%Cu	4.096	100	±2.2°C	
	(VNX):44%Ni-balance Cu	-		from 0 °C to 100°C	
EX(+CHROMEL vs -CONSTANTAN)	(EPX):90%Ni-10%Cr	6.319	100	±2.5°C	±1.5°C
	(ENX):44%Ni-balance Cu	13.421	200	from -25°C to 200°C	from -25°C to 200°C
TX(+COPPER vs -CONSTANTAN)	(TPX):100%Cu	4.279	100	±1°C	±0.5°C
	(TNX):44%Ni-balance Cu			from -25 °C to 100°C	from -25°C to 100°C
JX(+IRON vs -CONSTANTAN)	(JPX):100%Fe	5.269	100	±2.5°C	±1.5°C
	(JNX):44%Ni-balance Cu	10.779	200	from -25°C to 200°C	from -25 °C to 200°C
NX(+NICROSIL vs -NISIL)	(NPX):84%Ni-14.2%Cr-Si	2.774	100	±2.5°C	±1.5°C
	(NNX):95%Ni-4.3%Si	5.913	200	from -25°C to 200°C	from -25°C to 200°C



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Thermocouple and Extension Grade Alloy

Japanese standard JIS C1610

Type of extension	Type of extension	American standard ANSI MC 96-1			
		mv	At temp °C	Tolerance	
				Standard	Special
KX(+CHROMEL vs -ALUMEL)	(KPX):90%Ni-10%Cr	4.096	100	±100MV	±60MV
	(KNX):95%Ni+Al-Mn-Si	8.139	200	from -25 °C to 200°C	from -25 °C to 200°C
WX(+IRON vs - CONSTANTAN)	(WPX):100%Fe	4.096	100	±100MV	
	(WNX):43%Ni-2%Mn2%Fe-balance Cu	8.139	200	from 0 °C to 150°C	
EX(+CHROMEL vs -CONSTANTAN)	(EPX):90%Ni-10%Cr	6.319	100	±200MV	±120MV
	(ENX):44%Ni-balance Cu	13.421	200	from -25°C to 200°C	from -25°C to 200°C
TX(+COPPER vs -CONSTANTAN)	(TPX):100%Cu	4.279	100	±160MV	±30MV
	(TNX):44%Ni-balance Cu			from -25 °C to 100°C	from -25°C to 100°C
JX(+IRON vs -CONSTANTAN)	(JPX):100%Fe	5.269	100	±140MV	±185MV
	(JNX):44%Ni-balance Cu	10.779	200	from -25°C to 200°C	from -25 °C to 200°C
NX(+NICROSIL vs -NISIL)	(NPX):84%Ni-14.2%Cr-Si	2.774	100	±200MV	±60MV
	(NNX):95%Ni-4.3%Si	5.913	200	from -25°C to 200°C	from -25°C to 200°C