

High Temperature Wire with Nextel® or Silica Yarn Fiber Insulation

- Nextel 312, rated up to 1200 °C (2200 °F)
- Nextel 440, rated up to 1300 °C (2372 °F)
- Silica Yarn, rated up to 1050 °C (1900 °F) Continuous

Nextel high temperature ceramic insulation is offered with different types of overbraiding. XC is the standard braid, XT is a tight braid. The braids affect only the amount of Nextel used, not the overall temperature rating.

Silica is a high purity (SiO₂ >99 %) yarn, that offers high temperature protection up to 1050 °C (1900 °F) at an economical price.



Available!

OMEGA will overbraid any thermocouple wire with Inconel 600, 304 SS or tinned copper overbraiding. Both Inconel 600 and SS add durability and abrasion protection.

Nextel 440, Rated up to 1300 °C (2372 °F)

Model No.	AWG
XC4-K-14-(*)	14
XC4-K-20-(*)	20
XC4-K-24-(*)	24
XC4-E-14-(*)	14
XC4-E-20-(*)	20
XC4-E-24-(*)	24
XC4-J-14-(*)	14
XC4-J-20-(*)	20
XC4-J-24-(*)	24

* Specify spool length: 25, 50, 100, 200, 500 or 1000'.
Ordering Example: XC4-K-24-1000, 1000' NEXTEL 440 high temperature wire.

Spool Lengths	
20 ft	7.6 m
50 ft	15.2 m
100 ft	30.4 m
200 ft	60.9 m
500 ft	152.4 m
1000 ft	304.8 m

Shown actual size.



Shown smaller than actual size.

High Accuracy
SLE Available

With Color
Tracer for Easy
Identification



Not recommended for use in abrasive environments without protection of Inconel® overbraiding or a thermowell

T/C TYPE	Model Number	Material	AWG	Max Temp °C °F	
E CHROMEQA®- Constantan	XC-E-14-(*)	Nextel 312, standard	14	650	1200
	XC-E-20-(*)	Nextel 312, standard	20	540	1000
	XT-E-20-(*)	Nextel 312, tight	20	540	1000
	XC-E-24-(*)	Nextel 312, standard	24	430	800
	XT-E-24-(*)	Nextel 312, tight	24	430	800
	XS-E-14-(*)	Silica	14	650	1200
	XS-E-20-(*)	Silica	20	540	1000
	XS-E-24-(*)	Silica	24	430	800
K CHROMEQA®- ALOMEGA®	XC-K-14-(*)	Nextel 312, standard	14	1090	2000
	XC-K-20-(*)	Nextel 312, standard	20	980	1800
	XT-K-20-(*)	Nextel 312, tight	20	980	1800
	XC-K-24-(*)	Nextel 312, standard	24	870	1600
	XT-K-24-(*)	Nextel 312, tight	24	870	1600
	XS-K-14-(*)	Silica	14	1090	2000
	XS-K-20-(*)	Silica	20	980	1800
	XS-K-24-(*)	Silica	24	870	1600
N OMEGALLOY® OMEGA-P® OMEGA-N® NICROSIL NISIL	XC-N-14-(*)	Nextel 312, standard	14	1090	2000
	XC-N-20-(*)	Nextel 312, standard	20	980	1800
	XT-N-20-(*)	Nextel 312, tight	20	980	1800
	XC-N-24-(*)	Nextel 312, standard	24	980	1800
	XT-N-24-(*)	Nextel 312, tight	24	980	1800
	XS-N-20-(*)	Silica	20	980	1800
	XS-N-24-(*)	Silica	24	980	1800
J Iron- Constantan	XC-J-14-(*)	Nextel 312, standard	14	590	1100
	XC-J-20-(*)	Nextel 312, standard	20	480	900
	XT-J-20-(*)	Nextel 312, tight	20	480	900
	XC-J-24-(*)	Nextel 312, standard	24	370	700
	XT-J-24-(*)	Nextel 312, tight	24	370	700
	XS-J-14-(*)	Silica	14	590	1100
	XS-J-20-(*)	Silica	20	480	900
	XS-J-24-(*)	Silica	24	370	700

* Specify spool length (in feet): 25, 50, 100, 200, 500, or 1000. To order special limits of error wire add "-SLE" to model number before spool length.

* **Ordering Example:** XC-K-24-200: Type K wire, 24 AWG Nextel 312 Insulator.

* **Ordering Example:** XC-E-20-SLE-100: Type E wire, 20 AWG, Nextel 312, SLE accuracy, 100 ' spool

Note: Has color tracers on jacket and conductors.

DS-XC-XS-XT-XL-WIRE v1 1125

