



KXtra™

Extra Performance, Extra Value

Low cost extension wire for thermocouple applications

Product Features

Guaranteed accuracy from 0 to 105°C

- ANSI standard calibration from 0°C to 105°C (32°F to 221°F)
- Greater accuracy over longer distances
- Use smaller gauge wire without corresponding signal loss
- Longer runs and small-gauge flexibility reduces installation costs
- Lower cost alloys (copper and nickel/copper) and smaller gauge conductors means up to 50% purchase price savings!
- Equivalent or better performance compared to conventional KX thermocouple wire
- History of proven performance in Europe as VX compensating wire

Applications

- All applications using standard KX extension wire or European VX compensating wire.

Available Options

- 16 or 20 AWG gauge
- Twisted pair
- Overall shield
- Served wire
- FEP jacket for chemical and abrasion resistance
- Cables up to 50 pairs

Product Specifications

Conductors: Solid or stranded copper and nickel/copper wire

Insulation: Flame retardant PVC

Construction: Parallel or twisted pair conductors

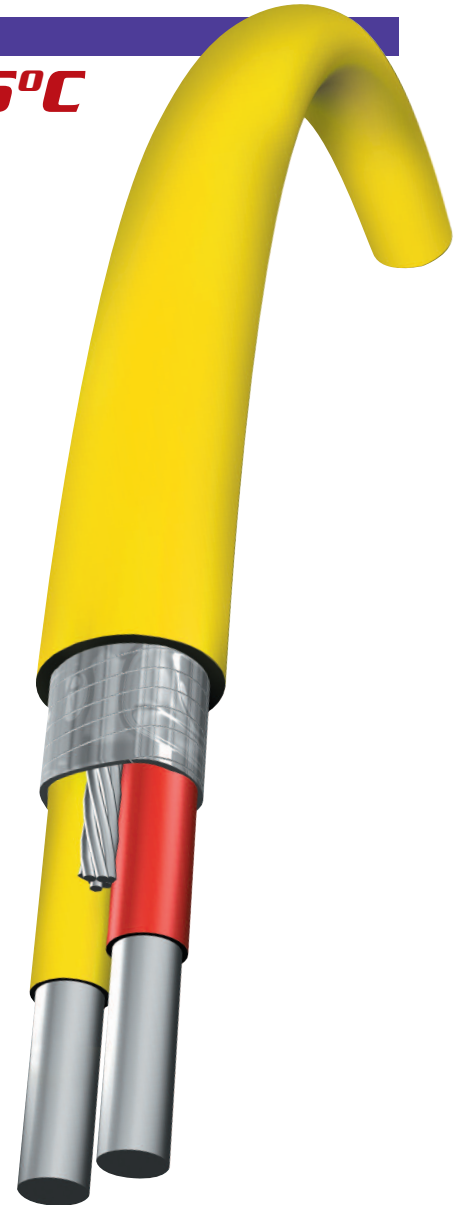
Jacket: Flame retardant PVC

Operating Temperature: 32°F (0°C) to 221°F (105°C) Continuous use

Limits of Error: Conforms to ASTM E230, IEC 584 and ANSI MC 96.1 for KX wire

Color Code: Conforms to ASTM E230 and ANSI MC 96.1 for KX wire
(International color codes available)

Certification: UL PLTC and CSA CIC & TC



To order KXtra Products

- **Choose a product** from the **KXtra Series Standard Products List***.
- **For special requirements**, refer to the **KXtra Wire Custom Order Guide***.
- **For assistance** in specifying the right thermocouple wire for your application contact your TE Wire & Cable sales representative, or call TE Wire & Cable directly.
- **Place your order** with your TE Wire & Cable sales representative, or call TE Wire & Cable directly.

*Located on the following section of this specification sheet.

KXtra is a trademark of TE Wire & Cable

TE Wire & Cable

The most trusted name in thermocouple wire since 1941

888-4TE-WIRE (888-483-9473)

www.tewire.com

KXtra Series - Standard Products

Part #	Reference #	Description
FW12298	UP/ALPTW-16-KXtra	1 pair, 16 gauge KXtra, PVC insulation, shield*, PVC jacket
FW12299	UP/ALPTW-20-KXtra	1 pair, 20 gauge KXtra, PVC insulation, shield*, PVC jacket
FW12301	UP/ALPTWK-08-20-KXtra	8 pairs, 20 gauge KXtra, PVC insulation, shield*, PVC jacket
FW12303	UP/ALPTWK-16-20-KXtra	16 pairs, 20 gauge KXtra, PVC insulation, shield*, PVC jacket
FW12304	UP/ALPTWK-24-20-KXtra	24 pairs, 20 gauge KXtra, PVC insulation, shield*, PVC jacket

*.002" Aluminum/polyester tape, 15% overlap, 7-strand tinned copper drain wire, continuous contact.

KXtra - Custom Order Guide

Before ordering specify the following options:

- **Wire size**, AWG or Metric (20 AWG solid wire standard if not specified).
- PVC or Teflon **jacket**.
- **Twisted** or parallel pairs.
- **Shielded** pairs, overall shield or both.
- Calibration test reports.

Technical Information

Nominal Weights and Dimensions - UL

UL Constructions - Subject 13 PLTC & 2250 ITC

Conductor Size	Pairs	Insulation	Jacket	Outer Diameter	Net Weight
AWG (MM)	#	inches(MM)	inches(MM)	inches(MM)	LB/MFKG/KM
16 (1.29)	1	.016 (.40)	.037 (.94)	.270 (6.9)	47 (70)
20 (0.81)	1	.016 (.40)	.037 (.94)	.226 (5.7)	28 (42)
20 (0.81)	8	.016 (.40)	.053 (1.35)	.503 (12.8)	145 (216)
20 (0.81)	16	.016 (.40)	.064 (1.63)	.674 (17.1)	262 (390)
20 (0.81)	24	.016 (.40)	.064 (1.63)	.790 (20.1)	348 (518)

Nominal Weights and Dimensions - CSA

CSA Constructions - C 22.2 No. 239 CIC & No. 230 TC

Conductor Size	Pairs	Insulation	Jacket	Outer Diameter	Net Weight
AWG (MM)	#	inches(MM)	inches(MM)	inches(MM)	LB/MFKG/KM
16 (1.29)	1	.026 (.66)	.047 (1.19)	.316 (8.03)	54 (80)
20 (0.81)	1	.021 (.53)	.047 (1.19)	.254 (6.50)	33 (49)
20 (0.81)	8	.021 (.53)	.064 (1.63)	.558 (14.2)	160 (238)
20 (0.81)	16	.021 (.53)	.064 (1.63)	.705 (17.9)	295 (439)
20 (0.81)	24	.021 (.53)	.085 (2.16)	.889 (22.5)	402 (598)

Nominal Loop Resistance

Nominal loop resistance of KXtra vs. standard type KX wire

Gauge size (AWG)	KXtra (Ohms/1000 ft)	Standard KX (Ohms/1000 ft)
16	96	233
20	244	590

Initial Calibration Tolerances

Initial calibration tolerances* per ASTM E230 & ANSI MC96.1

Grade	Temperature Range °F (°C)	Tolerance
TC Wire		
KXtra	32 (0) - 221 (105)	± 4.0 (2.2)



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