



Product: [1116A](#)

Type KX Thermocouple, 1 Pr #16 Sol, FEP Ins Yel, Red, OS, Yellow FEP Jkt, 300V PLTC CL2P 200C SUN RES

[Request Sample](#)

Product Description

Type KX Thermocouple, 1 Pair 16AWG (Solid) Chromel+Alumel, FEP Insulation Yel, Red Color Code, Overall Beldfoil® Shield, Yellow FEP Outer Jacket, PLTC CL2P 200C SUN RES

Technical Specifications

Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), Thermocouple, distributed control system (DCS), programmable logic controller (PLC)
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	16 AWG	Solid	Chromel & Alumel

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.010 in (0.25 mm)	0.071 in (1.8 mm)	Yellow & Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.012 in (0.30 mm)	0.171 in (4.34 mm)

Overall Cable Diameter (Nominal):	0.171 in (4.34 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Pair(s)	141 Ohm/1000ft	
	57 Ohm/1000ft (190 Ohm/km)	18 Amps per conductor @ 30°C

Table Notes:	Conductor DCR (Nom): 165 Ohm/1000ft (Chromel), 66 Ohm/1000ft (Alumel)
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Voltage

UL Voltage Rating
300 V (PLTC), 300 V (CL3P)

Mechanical Characteristics

Temperature

UL Temperature	Operating
200°C	-70°C to +200°C

Bend Radius

Stationary Min.	Installation Min.
1.7 in (43 mm)	1.7 in (43 mm)

Max. Pull Tension:	83 lbs (38 kg)
Bulk Cable Weight:	31 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum)
NEC / UL Compliance:	Article 725, CL3P, PLTC
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ISA MC 96.1-1982 Type KX

Product Notes

Notes:	Chromel and Alumel are Hoskins Manufacturing Company trademarks.
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History

Update and Revision:	Revision Number: 0.516 Revision Date: 04-14-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1116A 0045000	Yellow	Reel	5,000 ft	612825107064

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