



Product: [3111A](#)

Type JX Thermocouple, 1 Pr #20 Sol, PVC Ins Wht, Red, OS, Blk PVC Jkt, 300V PLTC ITC CMG

[Request Sample](#)

Product Description

Type JX Thermocouple, 1 Pair 20AWG (Solid) Iron+Constantan, PVC Insulation Wht, Red Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC ITC CMG AWM 2464 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	No. of Elements	Size	Stranding	Material
Pair(s)	1	20 AWG	Solid	Iron & Constantan

Insulation			
Element	Material	Nom. Thickness	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	White & Red

Outer Shield			
Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.037 in (0.94 mm)	0.226 in (5.74 mm)	Yes

Overall Cable Diameter (Nominal):	0.226 in (5.74 mm)
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Electrical Characteristics

Electricals

Element
Pair(s)

Voltage

UL Voltage Rating
300 V (PLTC, CMG, UL AWM 2464), 150 V (ITC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-30°C to +105°C

Bend Radius

Stationary Min.	Installation Min.
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2.3 in (58 mm)	2.3 in (58 mm)
Max. Pull Tension:	29 lbs (13 kg)
Bulk Cable Weight:	26 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, 1202
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	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 JX

Product Notes

Notes:	Constantan is a Hoskins Manufacturing Company trademark.
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History

Update and Revision:	Revision Number: 0.558 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3111A 0101000	Black	Reel	1,000 ft	612825141860	C
3111A 0105000	Black	Reel	5,000 ft	612825141877	C Z

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