



Product: <u>3111A</u> ☑

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

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 DIR BUR

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)

Construction Details

Conductor

Element	Number of Element	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

Outer Jacket

Electrical Characteristics

Electricals



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.

2.3 in (58 mm) 2.3 in (58	3 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.

History

Update and Revision:	Revision Number: 0.372 Revision Date: 04-14-2023

Part Numbers

Variants

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

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