BELDEN

Product: 3115A ↗

Type JX Thermocouple, 2 Pr #20+22 Sol, PVC Ins Wht, Red, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

⊞ Request Sample

Product Description

Type JX Thermocouple, 2 Pair 20+22AWG (Solid) Iron+Constantan, PVC Insulation Wht, Red Color Code, Individual & 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, …),RTD, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, actuators, positioners

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	2	20 AWG	Solid	Iron & Constantan
Comm	1	22 AWG	7x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	0.074 in (1.9 mm)	Red and White and Numbered
Comm	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	0.067 in (1.7 mm)	Orange

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.042 in (1.1 mm)	0.378 in

Overall Cable Diameter (Nominal):	0.328 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
Iron	69 Ohm/1000ft	8.7 Ohm/1000ft (29 Ohm/km)	
Constantan	293 Ohm/1000ft (961 Ohm/km)		
Comm	17.2 Ohm/1000ft (56.4 Ohm/km)		5 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
UL: 105°C, AWM 2464: 80°C	-20°C to +105°C

Bend Radius

Stationary Min.	Installation Min.
3.28 in (83.3 mm)	3.28 in

Max. Pull Tension:	445 lbs (202 kg)
Bulk Cable Weight:	68 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, Article 727, Article 800
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:	Iron & Constantan = ""Constantan is a Hoskins Manufacturing Company trademark.""

History

Update and Revision:	Revision Number: 0.425 Revision Date: 07-03-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3115A 0105000	Black	Reel	5,000 ft	612825141952	C Z

Mouser Electronics

Authorized Distributor

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[Belden Wire & Cable](#):

[3115A 0105000](#)