

IMAGE COMING SOON

Product: UE16044W

Type EX Thermocouple, 4 Pr #16 Sol, XLPE Ins Pur, Red, IS/OS, Purple LSZH Jkt, 600V TC 90C Dry/Wet SUN RES

Product Description

Type EX Thermocouple, 4 Pair 16AWG (Solid) Chromel+Constantan, XLPE Insulation Pur, Red Color Code, Individual & Overall Beldfoil® Shield, Purple LSZH Outer Jacket, 600V TC 90C Dry/Wet 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,), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Pairs
Pair(s)	16	Solid	Chromel & Constantan	0.051 in	4
Conductor Count:		8			

Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Pair(s)	XLP, XLPO, XLPE (Thermoset)	0.113 in	0.031 in

Color Chart

Number	Color
Pair 1	Purple and Red Numbered 1
Pair 2	Purple and Red Numbered 2
Pair 3	Purple and Red Numbered 3
Pair 4	Purple and Red Numbered 4

Inner Shield

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG
Таре	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	0.046 in	18

Outer Shield

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	0.057 in	16

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.648 in	0.063 in

Electrical Characteristics

Conductor	DCR
oonuuctor	DOIN

Nominal Conductor DCR
6.3 Ohm/1000ft
11.5 Ohm/1000ft

Max. Recommended Current [A]

18 Amps per Conductor at 30°C

Temperature Range

UL Temp Rating:	90°C Wet/Dry
Operating Temperature Range:	-25°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	233 lbs/1000ft
Max. Pull Tension:	143 lbs
Min Bend Radius (Overall):	6.5 in

Standards

NEC/(UL) Compliance:	TC
ANSI Compliance:	MC 96.1-1982 Type EX

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
CA Prop 65:	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEEE Flammability: IEEE 1202	
UL voltage rating: 600 V RMS (Type TC)	

History

Update and Revision: Revision Number: 0.52 Revision Date: 05-31-2024

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