



**Product:** [1018AE](#) 

Type KX Thermocouple, 1 Pr #16 Sol, PVC Ins Yel, Red, OS, Yellow PVC Jkt, 300V PLTC-ER ITC-ER CMG

## Product Description

Type KX Thermocouple, 1 Pair 16AWG (Solid) Chromel+Alumel, PVC Insulation Yel, Red Color Code, Overall Beldfoil® Shield, Yellow PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair(s)	16	Solid	Chromel & Alumel	1

Conductor Count: 2

#### Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Pair(s)	PVC - Polyvinyl Chloride	0.093 in	0.021 in

#### Color Chart

Number	Color
Chromel	Yellow
Alumel	Red

#### Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.304 in	0.042 in

### Electrical Characteristics

#### Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
Chromel	147 Ohm/1000ft	38 Ohm/1000ft
Alumel	58.9 Ohm/1000ft	

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
25 pF/ft	51 pF/ft
25 pF/ft	51 pF/ft

#### Inductance

Nominal Inductance
0.18 µH/ft
0.18 µH/ft

#### Voltage

UL Description	UL Voltage Rating
PLTC	300 V RMS

## Temperature Range

UL Temperature Rating:	105°C
Operating Temperature Range:	-30°C To +105°C

## Mechanical Characteristics

Bulk Cable Weight:	39 lbs/1000ft
Minimum Minor Axis Bend Radius:	1 in

## Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG, ITC-ER, PLTC-ER
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2464
ANSI Compliance:	MC 96.1-1982 Type KX
Other Standards:	ISA MC 96.1-1982 Type KX

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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

## Suitability

Suitability - Sunlight Resistance:	Yes
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## Flammability, LSOH, Toxicity Testing

CSA/C(UL) Flammability:	FT4
UL Flammability:	UL1685 UL Loading
IEEE Flammability:	1202

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Product Notes

Notes:	Chromel & Alumel = ""Chromel and Alumel are Hoskins Manufacturing Company trademarks.""
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## History

Update and Revision:	Revision Number: 0.58 Revision Date: 04-30-2026
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