



Product: [3088CE](#)

Inst XLPE/PVC, 2+1G C #18 Str BC, XLPE Ins E1, OS, Bk PVC Jkt, 600V TC
150V NPLF 90C Dry

Product Description

UL Instrumentation XLPE/PVC, 2+1G Conductor 18AWG (7x26) Bare Copper, XLPE Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Dry 75C Wet SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation Applications in Plants, TC-ER, Exposed Run Applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
18	7x26	BC - Bare Copper		1
18	7x26	BC - Bare Copper	1	

Conductor Count:	3
Total Number of Pairs:	1

Insulation

Material	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.03 in

Color Chart

Number	Color
1	Black & White
2	Green

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100%	TC - Tinned Copper	20	7x28

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.324 in	0.047 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
5.86 Ohm/1000ft	7.46 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
30 pF/ft	54 pF/ft	30 pF/ft

Voltage

UL Voltage Rating
600 V RMS
150 V RMS (Type NPLF)

Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-30°C To +90°C
Wet Temp Range:	-30°C To +90 °C
Dry Temp Range:	-30°C To +90 °C

Mechanical Characteristics

Bulk Cable Weight:	61 lbs/1000ft
Max. Pull Tension:	80 lbs
Min Bend Radius/Minor Axis:	3.4 in

Standards

NEC/(UL) Compliance:	TC-ER
Other Compliance:	ICEA S-73-532, S-66-524

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU RoHS Compliance Date (yyyy-mm-dd):	2005-08-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
ICEA Flammability:	T-29-520
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Update and Revision:	Revision Number: 0.192 Revision Date: 04-28-2020
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