




Product: [3090CE](#) 

Inst XLPE/PVC, 1 Pr #16 Str BC, XLPE Ins E1, OS, Blk PVC Jkt, 600V TC-ER
150V NPLF 90C

Product Description

UL Instrumentation XLPE/PVC, 1 Pair 16AWG (7x24) Bare Copper, XLPE Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C SUN RES DIR BUR

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors	No. of Pairs
	16	7x24	BC - Bare Copper		1
Ground Wire	16	7x24	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

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18	7x26

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.35 in	0.047 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
3.67 Ohm/1000ft	4.99 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield	Nom.Mutual Capacitance
61.2 pF/ft	34 pF/ft

Voltage

UL Voltage Rating
600 V RMS
150 V RMS (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:	78 lbs/1000ft
Max. Pull Tension:	130 lbs
Min. Bend Radius/Minor Axis:	3.9 in

Standards

NEC/(UL) Compliance:	TC-ER
Other Specification:	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 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)
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: 0.201 Revision Date: 08-27-2021
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