



Product: [48643CZ](#)

TC VN/PVC, 2+G C #10 Str BC, XLPE Ins E1, 1 #10 Str BC, XLPE GRND, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) XLPE/PVC, 2+G Conductor 10AWG (7x18H) Bare Copper, XLPE Insulation E1 Color Code, 10AWG (7x18H) Bare Copper XLPE Insulation GRN Ground, Black PVC Outer Jacket, 600V TC 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
10	7x18	BC - Bare Copper	2
10		BC - Bare Copper	1

Conductor Count: 2

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.174 in	0.031 in
XLP, XLPO, XLPE (Thermoset)	0.174 in	0.031 in

Color Chart

Number	Color
1	Black
2	White
3	Green

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.468 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.04 Ohm/1000ft

Current

Max. Recommended Current [A]
40 Amps per Conductor at 30°C

Voltage

UL Description	UL Voltage Rating	Voltage Rating [V]
TC-ER	600 V RMS (Type TC)	600 V RMS (Type TC)

Temperature Range

UL Temp Rating:	90°C Dry, 90°C Wet
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

UV Resistance:	Yes
Bulk Cable Weight:	161 lbs/1000ft
Max. Pull Tension:	249 lbs
Min Bend Radius (Overall):	4.68 in
Min Bend Radius/Minor Axis:	1.87 in

Standards

NEC/(UL) Compliance:	TC-ER, XHHW-2
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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 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 CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01

Suitability

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

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
UL voltage rating:	600 V RMS (Type TC)

Part Number

Variants

Item #	Putup Type	UPC
48643CZ 0105000	Reel	612825365853
48643CZ 0107500	Reel	
48643CZ01010000	Reel	612825365877
48643CZ 0105000	Reel	

History

Update and Revision:	Revision Number: 0.37 Revision Date: 06-24-2020
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