



Product: [28178C](#)

TC XLPE/PVC, 4+G C #4/0+4 Str BC, XLPE Ins M4, Blk PVC Jkt, 600V
TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) XLPE/PVC, 4+G Conductor 4/0+4AWG (Class B) Bare Copper, XLPE Insulation M4 Color Code, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	4/0	19x9	BC - Bare Copper	4
Ground	4	7x12	BC - Bare Copper	1

Conductor Count:	4
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Insulation

Material	Nominal Diameter
XLP, XLPO, XLPE (Thermoset)	0.627 in
No Insulation	

Color Chart

Number	Color
1	Black
2	Black
3	Black
4	Black

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.746 in	0.116 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.067 Ohm/1000ft

Current

Max. Recommended Current [A]
180 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
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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
Min Bend Radius (Overall):	14.0 in
Min. Bend Radius/Minor Axis:	8.73 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 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
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
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Part Number

Variants

Item #	Put-Up Type	UPC
28178C 0102500	Reel	612825422198

History

Update and Revision:	Revision Number: 0.92 Revision Date: 08-27-2021
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