



Product: [A033A4B](#)

TC VN/PVC, 3+G C #3/0+6 Str BC, PVC-NYL Ins M4, Blk PVC Jkt, 600V
TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 3+G Conductor 3/0+6AWG (Class B) Bare Copper, PVC-NYL 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)	3/0	19x10.5	BC - Bare Copper	3
Ground	6	7x14	BC - Bare Copper	1

Conductor Count: 3

Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.580 in
No Insulation	

Color Chart

Number	Color
1	Black Numbered 1
2	Black Numbered 2
3	Black Numbered 3

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.381 in	0.083 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.067 Ohm/1000ft

Current

Max. Recommended Current [A]
225 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 Temperature Range:	-25°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):	13.81 in
Min. Bend Radius/Minor Axis:	6.91 in

Standards

NEC/(UL) Compliance:	TC-ER, THWN-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

Suitability

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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
IEEE Flammability:	IEEE 1202
UL voltage rating:	600 V RMS (Type TC)

History

Update and Revision:	Revision Number: 0.52 Revision Date: 09-05-2023
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