



Product: [A03044C](#)

TC VN/PVC, 3+G C #4+8 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 4+8AWG (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

Product Overview

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	4	7x12	BC - Bare Copper	3
Ground	8	7x16	BC - Bare Copper	1

Conductor Count:	3
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Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.309 in
No Insulation	

Color Chart

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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.825 in	0.063 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.26 Ohm/1000ft

Current

Max. Recommended Current [A]
95 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:	75°C Wet, 90°C Dry
Operating Temperature Range:	-25°C To +90°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	614 lbs/1000ft
Max. Pull Tension:	1002 lbs
Min Bend Radius (Overall):	8.25 in
Min. Bend Radius/Minor Axis:	3.30 in

Standards

NEC/(UL) Compliance:	TC-ER, THHN, THWN
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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
CA Prop 65:	Yes

Suitability

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

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Put-Up Type
A03044C 0102500	Reel
A03044C 0105000	Reel

History

Update and Revision:	Revision Number: 0.54 Revision Date: 02-03-2025
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