



Product: [A02141O](#)

TC-ER VN/PVC, 2+G C #14 Str BC, PVC-NYL Ins, E1, 1 C #14 Str BC Ins Grnd, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry 75C Wet SUN RES DIR BUR

Product Description

UL Type TC-ER (1277) PVC-Nylon/PVC, 2+G Conductor 14AWG (7x22) Bare Copper, PVC-NYL Insulation E1 Color Code, 1 Conductor 14 (7x22) Bare Copper Insulated Ground, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry 75C 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)	14	7x22	BC - Bare Copper	2
Ground	14	7x22	BC - Bare Copper	1

Conductor Count:	2
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.116 in	0.0225 in
PVC/Nylon - Polyvinyl Chloride + Nylon	0.116 in	0.0225 in

Color Chart

Number	Color
1	Black
2	White
Ground	Green

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.344 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
2.52 Ohm/1000ft

Current

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

Voltage

UL Description	UL Voltage Rating	Voltage Rating [V]
TC	600 V RMS (Type TC)	600 V RMS (Type TC)
NPLF	150 V RMS (NPLF)	

Temperature Range

Operating Temperature Range:	-30°C to 90°C Dry, +75°C Wet
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Mechanical Characteristics

Bulk Cable Weight:	73 lbs/1000ft
Max. Pull Tension:	97 lbs
Min. Bend Radius/Minor Axis:	1.38 in

Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	NPLF, TC-ER, THWN-2 Singles

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

Related Part Numbers

Variants

Item #	Put-Up Type
A02141O 0105000	Reel

History

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