



**Product:** [28143AS](#)

TC VN/PVC, 7 C #10 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

**Product Description**

UL Type TC (1277) PVC-Nylon/PVC, 7 Conductor 10AWG (7x18) Bare Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count: 7

**Insulation**

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.166 in

**Color Chart**

Number
ICEA Table E2

**Outer Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	10

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.628 in	0.063 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
1.04 Ohm/1000ft

**Current**

Max. Recommended Current [A]
28 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:	-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):	6.28 in

## Standards

NEC/(UL) Compliance:	TC-ER
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## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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)

## History

Update and Revision:	Revision Number: 0.34 Revision Date: 09-30-2020
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