



**Product:** [28140AS](#)



TC-ER VN/PVC, 4 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, 4 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

### Product Overview

Suitable Applications:	Power and Control Applications up to 600V
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	10 AWG	7x18	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.028 in (0.71 mm)	0.166 in mm	Black, Red, Blue, Orange

#### Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.500 in (12.7 mm)	Yes

Overall Cable Diameter (Nominal):	0.500 in (12.7 mm)
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### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Max. Current
1.06 Ohm/1000ft	32 Amps per conductor at 30°C

#### Voltage

UL Voltage Rating
600 V

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-30°C To +90°C

#### Bend Radius

Stationary Min.	Installation Min.
6 in (150 mm)	6 in (150 mm)

Max. Pull Tension:	587.2 lbs (266.3 kg)
Bulk Cable Weight:	232 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, THWN-2
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
Plenum Number:	ICEA S-73-532, S-95-658, S-61-402

## History

Update and Revision:	Revision Number: 0.72 Revision Date: 02-03-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length
28140AS 0105000	Black	Reel	5,000 ft
28140AS01010000	Black	Reel	10,000 ft
28140AS01020000	Black	Reel	20,000 ft

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