



**Product:** [28127A](#)

TC-ER VN/PVC, 20 C #12 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC  
150V NPLF 90C Wet/Dry SUN RES DIR BUR

**Product Description**

UL Type TC-ER (1277) PVC-Nylon/PVC, 20 Conductor 12AWG (7x20) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Wet/Dry 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	Number of Element	Size	Stranding	Material
Conductor(s)	20	12 AWG	7x20	BC - Bare Copper

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.134 in mm	Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black, Orange/Black, Yellow/Black, Brown/Black, Black/Red, Blue/Red, Orange/Red, Yellow/Red, Brown/Red, Black/Blue, Red/Blue, Orange/Blue, Yellow/Blue

**Outer Shield**

<b>Material</b>
No Shield

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	0.878 in	Yes

Overall Cable Diameter (Nominal):	0.878 in
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**Electrical Characteristics**

**Electricals**

Nom. Conductor DCR	Max. Current
1.7 Ohm/1000ft	15 Amps per Conductor at 30°C

**Voltage**

<b>UL Voltage Rating</b>
600 V (TC-ER), 150 V (NPLF)

**Mechanical Characteristics**

**Temperature**

UL Temperature	Operating
90°C Dry, 90°C Wet	-30°C to 90°C Dry/Wet

**Bend Radius**

<b>Stationary Min.</b>	<b>Installation Min.</b>
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3.512 in (89.20 mm) 4.39 in

Max. Pull Tension:	1736 lbs (787.4 kg)
Bulk Cable Weight:	600 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, T-29-520, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, Article 760, TC-ER, NPLF, THWN-2
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ICEA S-73-532, ICEA S-61-402
Plenum Number:	{delete}

## History

Update and Revision:	Revision Number: 0.167 Revision Date: 07-01-2022
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