



**Product:** [28329AS](#)

TC VN/PVC, 12 C #18 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V  
TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

### Product Description

UL Type TC (1277) PVC-Nylon/PVC, 12 Conductor 18AWG (7x26) Bare Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors
Conductor(s)	18	7x26	BC - Bare Copper	0.045 in	12

Conductor Count: 12

##### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.088 in	0.024 in

##### Color Chart

Number	Color
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6	Brown
7	Red/Black
8	Blue/Black
9	Orange/Black
10	Yellow/Black
11	Brown/Black
12	Black/Red

##### Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18

##### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.463 in	0.047 in	Yes

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR
6.7 Ohm/1000ft

##### Current

**Max. Recommended Current [A]**

4.8 Amps per Conductor at 25°C

**Voltage**

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

**Temperature Range**

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temp Range:	Wet/Dry: -30°C to 90°C
Wet Temp Range:	-30°C To +90 °C
Dry Temp Range:	-30°C To +90 °C

**Mechanical Characteristics**

Bulk Cable Weight:	136 lbs/1000ft
Max. Pull Tension:	264 lbs
Min. Bend Radius/Minor Axis:	4.6 in

**Standards**

NEC/(UL) Compliance:	NPLF, TC-ER, TFFN 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
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

**Suitability**

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

**Flammability, LSOH, Toxicity Testing**

C(UL) Flammability:	FT4
UL Flammability:	UL1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

**Plenum/Non-Plenum**

Plenum (Y/N):	No
---------------	----

**Part Number****Variants**

Item #	Color	Put-Up Type	Length	UPC
28329AS 0105000	Black	Reel	5,000 ft	612825135906

Footnote: C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

**History**

Update and Revision:	Revision Number: 0.159 Revision Date: 08-27-2021
----------------------	--

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.