



Product: [28082AS](#) 

TC VN/PVC, 4 C #14 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, 4 Conductor 14AWG (7x22) 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)	14	7x22	BC - Bare Copper	0.071 in	4

Conductor Count: 4

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.116 in	0.024 in

Color Chart

Number	Color
1	Black
2	Red
3	Blue
4	Orange

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	14

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	.378 in	.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
2.6 Ohm/1000ft

Current

Max. Recommended Current [A]
20 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 (Type 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:	113 lbs/1000ft
Max. Pull Tension:	218 lbs
Min. Bend Radius/Minor Axis:	3.8 in

Standards

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
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, LS0H, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 UL Loading
ICEA Flammability:	T-29-520
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
28082AS 0105000	Black	Reel	5,000 ft	612825135074
28082AS01010000	Black	Reel	10,000 ft	612825135081

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: 0.216 Revision Date: 08-27-2021
----------------------	--

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.