



**Product:** [28613A](#)

TC VN/PVC, 37 C #18 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry/Wet SUN RES DIR BUR

## Product Description

UL Type TC (1277) PVC-Nylon/PVC, 37 Conductor 18AWG (7x26) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

## Technical Specifications

### Product Overview

Suitable Applications:	Power and Control Applications up to 600V
------------------------	---

### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	37	18 AWG	7x26	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.020 in (0.51 mm)	0.087 in (2.2 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, Brown/Blue, Black/Orange, Red/Orange, Blue/Orange, Yellow/Orange, Brown/Orange, Black/Yellow, Red/Yellow, Blue/Yellow, Orange/Yellow, Brown/Yellow, Black/Brown, Red/Brown, Blue/Brown, Orange/Brown, Yellow/Brown, Black and Numbered

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.728 in (18.5 mm)	Yes

Overall Cable Diameter (Nominal):	0.728 in (18.5 mm)
-----------------------------------	--------------------

### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Max. Current
7.06 Ohm/1000ft	5.6 Amps per Conductor at 30°C

#### Voltage

UL Voltage Rating
600 V (TC-ER), 150 V (NPLF)

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.
2.912 in (73.96 mm)	3.64 in (92.5 mm)

Max. Pull Tension:	828.8 lbs (375.9 kg)
--------------------	----------------------

Bulk Cable Weight:	362 lbs/1000ft
--------------------	----------------

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 760, Article 336, Article 402, TC-ER, NPLF, TFFN
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, S-95-658, S-61-402

## History

Update and Revision:	Revision Number: 0.328 Revision Date: 07-15-2022
----------------------	--

## Part Numbers

### Variants

Item #	Putup Type	UPC
28613A 0105000	Reel	612825366430
28613A 0105000	Reel	612825366430

© 2022 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.