



Product: [27140R](#)

TC XLPE/CPE, 4 C #10 Str TC, XLPE Ins E2, Blk CPE Jkt, 600V TC 90C Dry/Wet SUN RES

Product Description

UL Type TC (1277) XLPE/CPE, 4 Conductor 10AWG (7x18) Tinned Copper, XLPE Insulation E2 Color Code, Black CPE Outer Jacket, 600V TC 90C Dry/Wet SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
10	7x18	TC - Tinned Copper	4

Conductor Count:	4
------------------	---

Insulation

Material	Nominal Diameter
XLP, XLPO, XLPE (Thermoset)	0.174 in

Color Chart

Number	Color
1	Black
2	Red
3	Blue
4	Orange

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
CPE - Chlorinated Polyethylene	0.516 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.04 Ohm/1000ft

Current

Max. Recommended Current [A]
32 Amps per Conductor at 30°C

Voltage

UL Description	UL Voltage Rating	Voltage Rating [V]
TC	600 V RMS (Type TC)	600 V RMS (Type TC)

Temperature Range

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

Dry Temp Range:	-30°C To +90 °C
-----------------	-----------------

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	215 lbs/1000ft
Max. Pull Tension:	332 lbs
Min Bend Radius (Overall):	5.16 in
Min Bend Radius/Minor Axis:	2.06 in

Standards

NEC/(UL) Compliance:	TC, XHHW-2
Other Compliance:	ICEA S-73-532, S-95-658, S-61-524

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65:	Yes

Suitability

Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Putup Type	UPC
27140R 01010000	Reel	612825327493

History

Update and Revision:	Revision Number: 0.37 Revision Date: 02-16-2021
----------------------	---

© 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.