



**Product:** [47091R](#)

TC XLPE/CPE, 13 C #14 Str TC, XLPE Ins E1, Blk CPE Jkt, 600V TC 90C Dry/Wet SUN RES

**Product Description**

UL Type TC (1277) XLPE/CPE, 13 Conductor 14AWG (7x22) Tinned Copper, XLPE Insulation E1 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
14	7x22	TC - Tinned Copper	13

Conductor Count:	13
------------------	----

**Insulation**

Material	Nominal Diameter
XLP, XLPO, XLPE (Thermoset)	0.132 in

**Color Chart**

Number	Color
1	Black and Numbered 1
2	White and Numbered 2
3	Red and Numbered 3
4	Green and Numbered 4
5	Orange and Numbered 5
6	Blue and Numbered 6
7	White/Black and Numbered 7
8	Red/Black and Numbered 8
9	Green/Black and Numbered 9
10	Orange/Black and Numbered 10
11	Blue/Black and Numbered 11
12	Black/White and Numbered 12
13	Red/White and Numbered 13

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
CPE - Chlorinated Polyethylene	0.722 in	0.063 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
2.52 Ohm/1000ft

**Current**

Max. Recommended Current [A]
12.5 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:	329 lbs/1000ft
Max. Pull Tension:	419 lbs
Min Bend Radius/Minor Axis:	2.89 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:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01

## 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
---------------	----

## History

Update and Revision:	Revision Number: 0.30 Revision Date: 06-24-2020
----------------------	---

© 2020 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.