



**Product:** [27083D](#)

TC XLPE/PVC, 5 C #14 Str TC, XLPE Ins E2, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

## Product Description

UL Type TC (1277) XLPE/PVC, 5 Conductor 14AWG (7x22) Tinned Copper, XLPE Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 90C Dry/Wet SUN RES DIR BUR

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
14	7x22	TC - Tinned Copper	5

Conductor Count:	5
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#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.133 in	0.031 in

#### Color Chart

Color
E2 Colored & Numbered
Red
Blue
Orange
Yellow

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.45 in	0.047 in
	0.450 in	

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
2.62 Ohm/1000ft

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

## Mechanical Characteristics

Bulk Cable Weight:	118 lbs/1000ft
Max. Pull Tension:	270 lbs
Min Bend Radius (Overall):	3.9 in
Min Bend Radius/Minor Axis:	1.80 in

## Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC, XHHW-2
CSA AWM Compliance:	FT4
IEEE Compliance:	1202
Other Compliance:	ICEA S-73-532, S-95-658, S-61-402

## 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

## Suitability

Suitability - Burial:	Yes
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):	Yes
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## History

Update and Revision:	Revision Number: 0.60 Revision Date: 06-24-2020
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