



Product: [27083R](#)

TC XLPE/CPE, 5 C #14 Str TC, XLPE Ins E2, Blk CPE Jkt, 600V TC 150V NPLF 90C/Wet SUN RES

Product Description

UL Type TC (1277) XLPE/CPE, 5 Conductor 14AWG (7x22) 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	Nominal Diameter	No. of Conductors
14	7x22	TC - Tinned Copper	0.071 in	5

Conductor Count:	5
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLPE, XLPO, XLPE (Thermoset)	0.132 in	0.031 in

Color Chart

Number	Color
1	Black and Numbered 1
2	Red and Numbered 2
3	Blue and Numbered 3
4	Orange and Numbered 4
5	Yellow and Numbered 5

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
CPE - Chlorinated Polyethylene	0.453 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
2.52 Ohm/1000ft

Current

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

Voltage

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
Type TC	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:	133 lbs/1000ft
Max. Pull Tension:	161 lbs
Min Bend Radius/Minor Axis:	1.81 in

Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC, XHHW-2
CSA AWM Compliance:	FT4
IEEE Compliance:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
Other Compliance:	ICEA S-73-532, S-66-524

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 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):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL 1685 (FT4 Loading), UL 1581 (VW-1)
CSA Flammability:	FT4
ICEA Flammability:	T-29-520
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Putup Type	UPC
27083R 0107500	Reel	612825326120

History

Update and Revision:	Revision Number: 0.152 Revision Date: 06-24-2020
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