



Product: [27641C](#)

TC XLPE/PVC, 2 C #12 Str BC, XLPE Ins E2, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) XLPE/PVC, 2 Conductor 12AWG (7x20) Bare 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	Nominal Diameter	No. of Conductors
12	7x20	BC - Bare Copper	0.089 in	2

Conductor Count:	2
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLPE, XLPO, XLPE (Thermoset)	0.150 in	0.031 in

Color Chart

Color
Black
Red

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.362 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.65 Ohm/1000ft

Current

Max. Recommended Current [A]
30 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°
Wet Temp Range:	-30°C To +90 °C
Dry Temp Range:	-30°C To +90 °C

Mechanical Characteristics

Min Bend Radius (Overall):	4.0 in
Min Bend Radius/Minor Axis:	1.45 in

Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC, XHHW-2
IEEE Compliance:	1202
Other Compliance:	ICEA S-73-532, 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):	2012-12-20

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, 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
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Part Number

Variants

Item #	Putup Type	UPC
27641C 01010000	Reel	612825329725
27641C 0105000	Reel	612825329732
27641C 0105000	Reel	612825329732
27641C 01010000	Reel	

History

Update and Revision:	Revision Number: 0.77 Revision Date: 02-16-2021
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