



**Product:** [C12142S](#)

TC-ER XLPE/PVC, 12 C #14 Str BC, XLPE Ins E2, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

## Product Description

UL Type TC-ER (1277) XLPE/PVC, 12 Conductor 14AWG (7x22) Bare Copper, XLPE Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
14	7x22	BC - Bare Copper	12

Conductor Count:	12
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#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLPE, XLPO, XLPE (Thermoset)	0.133 in	0.0305 in

#### Color Chart

Number	Color
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6	Brown
Conductors 7 - 11	Same as 2 - 6 except w/Black Stripe
Conductor 12	Same as 1 except w/Red Stripe

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.677 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

## Mechanical Characteristics

Bulk Cable Weight:	307 lbs/1000ft
Max. Pull Tension:	386 lbs
Min Bend Radius/Minor Axis:	2.71 in

## Standards

NEC/(UL) Compliance:	TC-ER, XHHW-2
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## 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:	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, LS0H, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

## Part Number

### Variants

Item #	Putup Type
C12142S 0102500	Reel

## History

Update and Revision:	Revision Number: 0.29 Revision Date: 06-24-2020
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