



**Product:** [U12142](#)

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

**Product Description**

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

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	14	7x22	BC - Bare Copper	12

Conductor Count:	12
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**Insulation**

Material	Nominal Diameter	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.133 in	0.031 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 with Black Stripe
Conductor 12	Black/Red

**Outer Jacket**

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.713 in	0.083 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:	336 lbs/1000ft
Max. Pull Tension:	386 lbs
Min. Bend Radius/Minor Axis:	2.85 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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	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 - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

## Part Number

### Variants

Item #	Put-Up Type
U12142 0105000	Reel

## History

Update and Revision:	Revision Number: 0.48 Revision Date: 12-15-2021
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