



Product: [U042A4G](#)

TC-ER XLPE/LSZH, 4+G C #2/0 Str BC, XLPE Ins M4, 1 #6 Grnd, Blk LSZH Jkt, 600V TC-ER 90C Dry/Wet SUN RES

Product Description

UL Type TC (1277) XLPE/LSZH, 4+G Conductor 2/0 AWG (19x12) Bare Copper, XLPE Insulation M4 Color Code, 1 6AWG (7x16) Ground Wire, 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)	2/0	19x11.5	BC - Bare Copper	4
Ground	6	7x14	BC - Bare Copper	1

Conductor Count:	4
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.521 in	0.056 in
No Insulation		

Color Chart

Number	Color
Conductors 1 - 4	ICEA S-73-732 Table M4: Black and Numbered

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.464 in	0.103 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
.084 Ohm/1000ft

Current

Max. Recommended Current [A]
156 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:	1692 lbs/1000ft
Max. Pull Tension:	4260 lbs
Min. Bend Radius/Minor Axis:	7.32 in

Standards

NEC/(UL) Compliance:	TC-ER, XHHW-2
Other Specification:	ICEA S-95-658

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, LS0H, Toxicity Testing

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

History

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