



Product: [O02121X](#)

TC EPR(EPCV)/CPE, 2+G C #12+12 Str BC, EPR(EPCV) Ins E1, Blk CPE Jkt, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) EPR(EPCV)/CPE, 2+G Conductor 12+12AWG (Class B) Bare Copper, EPR(EPCV) Insulation E1 Color Code, Black CPE Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Power and Control Applications up to 1000V
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	12 AWG	7x20	BC - Bare Copper
Ground Wire	1	12 AWG	7x20	BC - Bare Copper

Insulation

Element	Separator	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	Conductor(s)	XLPO - Crosslink Polyolefin	0.031 in (0.79 mm)	0.151 in (3.84 mm)	Black, White
Ground Wire		XLPO - Crosslink Polyolefin	0.031 in (0.79 mm)	0.151 in (3.84 mm)	Green

Inner Shield

Shield Type
No Shield

Outer Shield

Shield Type
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
CPE - Chlorinated Polyethylene	0.047 in (1.2 mm)	0.419 in	Yes

Overall Cable Diameter (Nominal):	0.419 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.68 Ohm/1000ft	30 Amps per Conductor at 30°C
Ground Wire	1.72 Ohm/1000ft (5.64 Ohm/km)	30 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V (TC-ER)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	Wet/Dry: -30°C to 90°C

Bend Radius

Stationary Min.	Installation Min.
1.676 in (42.57 mm)	2.095 in

Max. Pull Tension:	260 lbs (120 kg)
Bulk Cable Weight:	123 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, XHHW-2
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.61 Revision Date: 12-22-2023
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