



Product: [C5581](#)

Teck90 1000V, 3+G C #8+10 Str BC, XLPE Ins M4, PVC Jkt, AIA Armor, Blk PVC Jkt, CSA HL SUN RES -40C

Product Description

Teck90 1000V, 3+G Conductor 8+10AWG (7x16H) Bare Copper, XLPE Insulation M4 Color Code, PVC Inner Jacket, Aluminum Interlock Armor, Black PVC Outer Jacket, CSA HL SUN RES -40C

Technical Specifications

Product Overview

Suitable Applications:	Power and Control Applications up to 600V
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	8	7x16	BC - Bare Copper
Ground	1	10	7x18	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
XLPE, XLPO, XLPE (Thermoset)	0.045 in (1.1 mm)	0.234 in (5.94 mm)	Black, Red, Blue

Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.63 in (16 mm)

Armor

Armor Type & Material	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.855 in (21.7 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.951 in (24.2 mm)	Yes

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.64 Ohm/1000ft	24 Amps per Conductor at 30°C
Ground	1.04 Ohm/1000ft (3.41 Ohm/km)	

Voltage

Voltage Rating
1000 V (TECK 90)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation

90°C	-40°C To +90°C	-25°C To +90°C
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Bend Radius

Stationary Min.	Installation Min.
7.608 in (193.2 mm)	7.608 in (193.2 mm)

Max. Pull Tension:	992 lbs (450 kg)
Bulk Cable Weight:	468 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
CEC / C(UL) Compliance:	TECK 90, HL
European Directive Compliance:	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: 0.267 Revision Date: 05-31-2024
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