Belden



Product: 6051

Teck90 600V, 3+3+G C #10+14+12 Str BC, XLPE Ins, PVC Jkt, AIA Armor, Blk PVC Jkt, CSA HL SUN RES -40C

Product Description

Teck90 600V, 3+3+G Conductor 10+14+12AWG (7x18H+7x22H) Bare Copper, XLPE Insulation, PVC Inner Jacket, Aluminum Interlock Armor, Black PVC Outer Jacket, CSA HL SUN RES -40C

Technical Specifications

Product Overview

Suitable Applications:	CEC Power and Control Applications

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor1	3	10 AWG	7x18	BC - Bare Copper
Conductor2	3	14 AWG	7x22	BC - Bare Copper
Ground Wire	1	12 AWG	7x20	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor1	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.174 in (4.42 mm)	Black, Blue, Red
Conductor2	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.132 in (3.35 mm)	Black, Red, Blue
Ground Wire	No Insulation			

Outer Shield

Material
No Shield

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.576 in (14.6 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.801 in (20.3 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.897 in

Overall Cable Diameter (Nominal):	0.897 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor1	2.5 Ohm/1000ft	32 Amps per Conductor at 30ºC
Conductor2	1.1 Ohm/1000ft (3.6 Ohm/km)	

Voltage

Voltage Rating
600 V (TECK 90)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation
90°C	-40°C To +90°C	-25°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
7.176 in (182.3 mm)	7.176 in

Max. Pull Tension:	794.2 lbs (360.2 kg)
Bulk Cable Weight:	425 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
AWM Compliance:	C22.2 #131; Hazardous Location; C22.2 #0.3 Clause 4.31 Low Acid Gas
CEC / C(UL) Compliance:	TECK 90, HL

History

Update and Revision:	Revision Number: 0.177 Revision Date: 10-07-2026

Part Numbers

Variants

Item #	Putup Type	UPC
6051 0105000	Reel	612825338932
6051 0102500	Reel	

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