Belden



Product: 6144

Teck90 1000V, 3+G C #1/0+6 Str BC, XLPE Ins M4, PVC Jkt, SIA Armor, Blk PVC Jkt, CSA HL SUN RES -40C

Product Description

Teck90 1000V, 3+G Conductor 1/0+6AWG (19x12H) Bare Copper, XLPE Insulation M4 Color Code, PVC Inner Jacket, Steel 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
Conductor(s)	3	1/0 AWG	19x12	BC - Bare Copper
Ground Wire	1	6 AWG	7x14	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.080 in (2.0 mm)	0.527 in (13.4 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	0.083 in (2.1 mm)	1.299 in (32.99 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
SIA - Steel Interlock Armor	0.034 in (0.86 mm)	1.559 in (39.60 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	1.665 in

Overall Cable Diameter (Nominal):	1.665 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	102 Ohm/1000ft	170 Amps per Conductor at 30ºC
Ground Wire	0.419 Ohm/1000ft (1.37 Ohm/km)	

Voltage

Voltage Rating

1000 V (TECK 90)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
13.32 in (338.3 mm)	13.32 in

Max. Pull Tension:	4358.1 lbs (1976.8 kg)
Bulk Cable Weight:	2346 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
CEC / C(UL) Compliance:	TECK 90, HL

History

Update and Revision:	Revision Number: 0.55 Revision Date: 10-07-2026

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