Belden



Product: 6083

Teck90 1000V, 2+G C #10+12 Str BC, XLPE Ins M4, PVC Jkt, SIA Armor, Blk PVC Jkt, CSA HL SUN RES -40C

Product Description

Teck90 1000V, 2+G Conductor 10+12AWG (7x18) 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)	2	10 AWG	7x18	BC - Bare Copper
Ground Wire	1	12 AWG	7x20	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.045 in (1.1 mm)	0.204 in (5.18 mm)	Black, White
Ground Wire	No Insulation			

Outer Shield

Material
No Shield

Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.502 in (12.8 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
SIA - Steel Interlock Armor	0.025 in (0.64 mm)	0.722 in (18.3 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.818in

Overall Cable Diameter (Nominal):	0.818in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.04 Ohm/1000ft	40 Amps per Conductor at 30ºC
Ground Wire	1.68 Ohm/1000ft (5.51 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.
6.544 in (166.2 mm)	6.544 in

Max. Pull Tension:	560.4 lbs (254.2 kg)
Bulk Cable Weight:	467 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: 0.54 Revision Date: 10-07-2026

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