Product: 6164

Teck90 1000V, 4+G C #1/0+6 Str BC, XLPE Ins M4, PVC Jkt, AIA Armor, Blk PVC Jkt, CSA HL SUN RES -40C

Product Description

Teck90 1000V, 4+G Conductor 1/0+6AWG (19x12H) 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:	CEC Power and Control Applications up to 600V

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	4	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, White, 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)	1.436 in (36.47 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.034 in (0.86 mm)	1.696 in (43.08 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	1.802 in (45.77 mm)

Overall Cable Diameter (Nominal):	1.802 in (45.77 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	102 Ohm/1000ft	24 Amps per Conductor at 30ºC
Ground Wire	0.419 Ohm/1000ft (1.37 Ohm/km)	75 Amps per Conductor at 30ºC

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.
14.416 in (366.17 mm)	14.416 in (366.17 mm)

Max. Pull Tension:	5561.5 lbs (2522.7 kg)
Bulk Cable Weight:	2241 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	FT4
CEC / C(UL) Compliance:	TECK 90, HL

History

Update and Revision:	Revision Number: 0.189 Revision Date: 07-15-2022