



Product: [6054](#)

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

Product Description

Teck90 600V, 3+3+G Conductor 12+14+14AWG (7x20H+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:	Power and Control Applications up to 600V
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Construction Details

Conductor

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

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor1	XLP, XLPO, XLPE (Thermoset)	0.03 in (0.76 mm)	0.150 in (3.81 mm)	ICEA Chart E2
Conductor2	XLP, XLPO, XLPE (Thermoset)	0.03 in (0.76 mm)	0.132 in (3.35 mm)	ICEA Chart E2
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)	0.518 in (13.2 mm)	Yes	Black

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.743 in (18.9 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	0.839 in

Overall Cable Diameter (Nominal):	0.839 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.68 Ohm/1000ft	24 Amps per Conductor at 30°C
Conductor(s)	2.7 Ohm/1000ft (8.9 Ohm/km)	25 Amps per Conductor at 30°C

Ground Wire	2.65 Ohm/1000ft (8.69 Ohm/km)	
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Voltage

Voltage Rating
600 V (TECK 90)

Mechanical Characteristics

Temperature

Operating
-40°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
6.712 in (170.5 mm)	6.712 in

Max. Pull Tension:	679 lbs (308 kg)
Bulk Cable Weight:	348 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: 0.193 Revision Date: 12-22-2023
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Part Numbers

Variants

Item #	Putup Type	UPC
6054 0105000	Reel	612825339045

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