BELDEN

Product: C5582

Teck90 1000V, 4+G C #8+10 Str BC, XLPE Ins M4, PVC Jkt, AIA Armor, Blk PVC Jkt, CSA HL SUN RES -40C

Product Description

Teck90 1000V, 4+G Conductor 8+10AWG (7x16H) 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	No. of Elements	Size	Stranding	Material
Conductor(s)	4	8 AWG	7x17	BC - Bare Copper
Ground Wire	1	10 AWG	7x18	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)	0.234 in mm	Black, Red, Blue, White
Ground Wire	No Insulation			

Outer Shield

Material
No Shield

Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.707 in (18.0 mm)

Armor

Armor Type & Material	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.932 in (23.7 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	1.028 in (26.11 mm)	Yes

Overall Cable Diameter (Nominal):	1.028 in (26.11 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.667 Ohm/1000ft	44 Amps per Conductor at 30ºC
Ground Wire	1.06 Ohm/1000ft (3.48 Ohm/km)	

Voltage

Voltage Rating

1000 V (TECK 90)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
8.22 in (209 mm)	8.22 in (209 mm)

Max. Pull Tension:	1190.4 lbs (539.96 kg)
Bulk Cable Weight:	548 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
CEC / C(UL) Compliance:	TECK 90, HL
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.180 Revision Date: 02-03-2025

Part Numbers

Variants

Item #	Putup Type	UPC
C5582 0101000	Reel	612825283492
C5582 0101640	Reel	612825283508
C5582 0102000	Reel	
C5582 0103280	Reel	612825283522
C5582 0104000	Reel	612825283539
C5582 0107500	Reel	612825283553
C5582 0109840	Reel	