



Product: <u>29724C</u> ☑

VFD, 3C #8 Str BC XLPE Ins + #10 Symm. Seg. Gnd (3 of #14) Str BC, CTS, Blk PVC Jkt, 2000V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B

Product Description

Belden Basics VFD, 3 Conductor 8AWG (7x16) Bare Copper XLPE Insulation M4 Color Code + 10AWG Symmetrical Segmented Ground (3 of 14AWG) Bare Copper Stranded, Overall Dual Copper Tapes Helically Applied Shield, Black PVC Outer Jacket, 2000V TC-ER 90C Dry/Wet 1000V CSA AWM I/II A/B SUN RES DIR BUR Oil Resistant

Technical Specifications

Product Overview

Suitable Applications: Variable Frequency Drives (VFD); AC Motor and Drive Systems; High voltage requirements

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material	Notes
Conductor(s)	3	8 AWG	7x16	BC - Bare Copper	ASTM B3 Copper B8 Class B Stranding
Ground	3	14 AWG	7x22	BC - Bare Copper	Segmented Grounds

Insulation

Eleme	nt	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conducto	or(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.072 in (1.8 mm)	0.286 in (7.26 mm)	Black and Numbered
Ground		No Insulation			

Outer Shield

Shield Type	Material	Coverage
Helical Tape	Bare Copper (BC)	100%
Helical Tape	Bare Copper (BC)	100%

Outer Jacket

	Material	Nom. Thickness	Nom. Diameter	Ripcord
P	PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	0.794 in (20.2 mm)	Yes
C	Overall Cable Diameter (I	Nominal):	0.794 in (20.2 mm)	

Electrical Characteristics

Electricals

E	lement	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Cor	nductor(s)	0.564 Ohm/1000ft (1.85 Ohm/km)	21 pF/ft (69 pF/m)	38 pF/ft (120 pF/m)	90 Ohm	55%	55 Amps per Conductor at 30°C

Voltage

UL Voltage Rating 2000 V (TC), 1000 V (CSA AWM I/II A/B)

Mechanical Characteristics

Temperature

UL Temperature Operating

Bend Radius

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading, 1202, 383 Vertical Tray Flame Test (70,000 BTU)
NEC / UL Compliance:	Article 336, TC-ER, RHW-2
AWM Compliance:	I/II A/B
ICEA Compliance:	S-95-658
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)
Other Standard Compliance(s):	P-07-KA070003-MSHA

History

	Update and Revision:	Revision Number: 0.76 Revision Date: 02-03-2025
--	----------------------	---

Part Numbers

Variants

ltem #	Putup Type	UPC
29724C 0102500	Reel	612825445494
29724C 0105000	Reel	612825445500

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.