

Product: <u>29504T</u> ☑

VFD 300% Gnd, 3C+G #8 Str TC, XLPE Ins+PVC Grd, OS+TC Brd w/4-#14 TC Drains, Blk LSZH Jkt, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC

Product Description

Belden 300% Ground Flexible VFD, 3 Conductor 8AWG (7x19x29) Tinned Copper, XLPE Insulation M4 Color Code+PVC Insulated Ground, Overall Beldfoil®+Tinned Copper Braid(85%) Shield w/4-14AWG Tinned Copper Drains, Black LSZH Outer Jacket, 600/1000V TC-ER 90C Dry/Wet 1000V Flexible Motor Supply Cable WTTC SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications: Variable Frequency Drives (VFD); AC Motor and Drive Systems; Human safety applications with flame or toxicity concerns (low smoke, zero halogen)

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	8 AWG	7x19x29	TC - Tinned Copper
Ground	1	8 AWG	7x19x29	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.062 in (1.6 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.062 in (1.6 mm)	Green/Yellow Stripe

Outer Shield

Shield Type	Material	Coverage
Таре	Tri-Laminate (Alum+Poly+Alum)	100%
Braid	Tinned Copper (TC)	85%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	
LSZH - Low Smoke Zero Halogen (Flame	e Retardant)	0.095 in (2.4 mm)	0.901 in (22.9 mm)	Yes
Overall Cable Diameter (Nominal)	0.901 in (22	9 mm)		

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Conductor(s)	0.599 Ohm/1000ft (1.97 Ohm/km)	46 pF/ft (150 pF/m)	83 pF/ft (270 pF/m)	37 Ohm	55%	55 Amps per Conductor at 30°C

Voltage

UL Voltage Rating 1000 V (TC, WTTC, UL Flexible Motor Supply Cable)

Mechanical Characteristics

Temperature

UL Temperature Operating

Bend Radius

Stationary Min.Installation Min.10.8 in (274 mm)10.8 in (274 mm)	
Max. Pull Tension:	971 lbs (440 kg)
Bulk Cable Weight:	580 lbs/1000ft (860 kg/km)

Standards and Compliance

Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
CA Prop 65
UL1685 FT4 Loading
Article 336, TC-ER, WTTC, UL Flexible Motor Supply Cable
S-95-658
China RoHS II (GB/T 26572-2011)

History

Update and Revision:

Revision Number: 0.261 Revision Date: 04-11-2025

Part Numbers

Variants

Item #	Color	Putup Type	UPC	Footnote
29504T 0101000	Black	Reel	612825137108	С
29504T 0105000	Black	Reel	612825137115	С

© 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.