

# Product: <u>DEDN168F</u> ☑

Digital Electricity™, 8 Pr #16 Str TC, O/A Foil, PVC Jkt, CMG, Wet Locations

# **Product Description**

Digital Electricity<sup>™</sup> Optimized Cable, 8 Twisted Pair 16 AWG (7 x 24) Stranded Tinned Copper, PVC Insulation, Overall foil shield, Black PVC Jacket, Ripcord, CMG, Wet Locations, 2000 Ft Reel

# **Technical Specifications**

# Product Overview

Suitable Applications: Indoor/Outdoor, Digital Electricity™, remote powering, wet locations, in-conduit

# **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	No. of Pairs
16	7x24	TC - Tinned Copper	8
Total Number of Pairs: 8			

#### Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.017 in

#### Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White

#### **Outer Shield Material**

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Таре	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18

#### **Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.585 in	0.040 in

# **Electrical Characteristics**

Conductor DCR	
---------------	--

Nominal Conductor DCR	Nominal Outer Shield DCR
4.55 Ohm/1000ft	4.7 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor Nom. Capacitance Conductor to Other Conductor to Shield

52.75 pF/ft

Current

Max. Recommended Current [A]
5.5 Amps per Conductor at 25°C (35°C Temperature Rise

#### Voltage

UL Voltage Rating 300 V RMS

#### **Temperature Range**

UL Temp Rating:	105°C
Operating Temp Range:	-30°C To +105°C

#### **Mechanical Characteristics**

Bulk Cable Weight:	220 lbs/1000ft
Max. Pull Tension:	570 lbs
Min Bend Radius/Minor Axis:	5.85 in

#### **Standards**

NEC Articles:	Article 725, Article 800
NEC/(UL) Compliance:	CL3, CMG
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	2464

# **Applicable Environmental and Other Programs**

ED Directive 2000/53/EC (ELV):YesEU Directive 2003/11/EC (BFR):%eEU Directive 2011/65/EU (ROHS 2):%eEU Directive 2012/19/EU (WEEE):%eEU Directive 2015/863/EU (ROHS 2):%eEU Directive 2016/802%eEU Dire		
EU Directive 2011/65/EU (RoHS 2): Yes   EU Directive 2012/19/EU (WEEE): Yes   EU Directive 2015/863/EU (RoHS 2 amendment): Yes   EU Directive Compliance: EU Directive 2003/11/EC (BFR)   EU CE Mark: Yes   EU RACH SVHC Compliance (yyyy-mm-du): 2020-01-28	EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2012/19/EU (WEEE): Yes   EU Directive 2015/863/EU (RoHS 2 amendmente): Yes   EU Directive Compliance: EU Directive 2003/11/EC (BFR)   EU CE Mark: Yes   EU CE Mark: 2020-01-28	EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment) Yes   EU Directive Compliance: EU Directive 2003/11/EC (BFR)   EU CE Mark: Yes   EU RACH SVHC Compliance (yyyy-mm-dd): 2020-01-28	EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive Compliance: EU Directive 2003/11/EC (BFR)   EU CE Mark: Yes   EU REACH SVHC Compliance (yyyy-mm-dd): 2020-01-28	EU Directive 2012/19/EU (WEEE):	Yes
EU REACH SVHC Compliance (yyyy-mm-dd): 2020-01-28	EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU REACH SVHC Compliance (yyyy-mm-dd): 2020-01-28	EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
	EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd): 2020-01-28	EU REACH SVHC Compliance (yyyy-mm-dd):	2020-01-28
	EU RoHS Compliance Date (yyyy-mm-dd):	2020-01-28

#### Suitability

Suitability - Indoor:	Yes
Suitability - Sunlight Resistance:	Yes

# Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL 1685 FT4 Loading
IEEE Flammability:	1202

#### Part Number

#### Variants

Item #	Color	Length
DEDN168F	Black	2,000 ft

# **History**

Update and Revision:

Revision Number: 0.31 Revision Date: 03-17-2021

© 2021 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.