



Product: <u>DEDN168F</u> ☑

Indoor/Outdoor Digital Electricity™, 8 Pr #16 Str TC, O/A Foil, PVC Jkt, CL4, CMG, Wet Locations

Product Description

Indoor/Outdoor Digital Electricity™ Copper Cable, 8 Twisted Pair 16 AWG (7 x 24) Stranded Tinned Copper, PVC Insulation, Overall foil shield, Black PVC Jacket, Ripcord, CL4, CMG, Wet Locations, 2000 Ft Reel

Technical Specifications

Product Overview

Suitable Applications:		Digi	ital Electricity™, Fault Managed Power Systems (FMPS), remote powering, wet locations, in-conduit	
Physical Characteristics (Overall)				
Conductor				
AWG	Stranding	Material	No. of Pairs	
16	7x24	TC - Tinned Copper	8	

Insulation

Total Number of Pairs:

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

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

8

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.593 in	0.043 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

29.25 pF/ft	52.75 pF/ft
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Current

Max. Recommended Current [A]

5.5 Amps per Conductor at 25°C (35°C Temperature Rise)

Voltage

UL Voltage Rating

450 V RMS

Temperature Range

UL Temp Rating:	105°C
Operating Temperature 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:	CL4, CL3, CMG
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2464

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
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 REACH SVHC Compliance (yyyy-mm-dd):	2020-01-28

Suitability

Suitability - Indoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL 1685 FT4 Loading
IEEE Flammability:	1202

Related Part Numbers

Variants

Item #	Color	Length
DEDN168F	Black	2,000 ft

History

Update and Revision:	Revision Number: 0.117 Revision Date: 12-22-2023

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