



Product: [DEDN188F](#)

Digital Electricity™, 8 Pr #18 Str TC, O/A Foil, PVC Jkt, CMG, Wet Locations

Product Description

Digital Electricity™ Optimized Cable, 8 Twisted Pair 18 AWG (7 x 26) 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
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Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Pairs
18	7x26	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					
Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20

Outer Jacket Material		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.524 in	0.040 in

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	Nominal Outer Shield DCR
6.4 Ohm/1000ft	7.1 Ohm/1000ft

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

26.75 pF/ft	28 pF/ft
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Current

Max. Recommended Current [A]
4 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:	157 lbs/1000ft
Max. Pull Tension:	360 lbs
Min Bend Radius/Minor Axis:	5.24 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

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	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 RoHS Compliance Date (yyyy-mm-dd):	2020-01-28

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	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
DEDN188F	Black	2,000 ft

History

Update and Revision:	Revision Number: 0.19 Revision Date: 09-22-2020
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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.