



Product: [DEDN188U](#)

Indoor/Outdoor Digital Electricity™, 8 Pr #18 Str, TC, PVC, CL4, CMG, PVC Jkt, Wet Locations

Product Description

Indoor/Outdoor Digital Electricity™ Copper Cable, 8 Twisted Pair 18 AWG (7x26) Stranded Tinned Copper, PVC insulation, Unshielded, PVC Jacket, CL4, CMG

Technical Specifications

Product Overview

Suitable Applications:	Digital Electricity™, Fault Managed Power Systems (FMPS), 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
Conductor Count:			16
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 Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.520 in	0.040 in

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	
6.4 Ohm/1000ft	

Capacitance	
Nom. Capacitance Conductor to Conductor	
22 pF/ft	

Current

Max. Recommended Current [A]
4 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:	167 lbs/1000ft
Max. Pull Tension:	360 lbs
Min. Bend Radius/Minor Axis:	5.2 in

Standards

NEC Articles:	Article 725, Article 800
NEC/(UL) Compliance:	CL4-FMP (2.5A), 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):	2019-05-13

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 FT4 Loading
IEEE Flammability:	1202

Related Part Numbers

Variants

Item #	Color	Length
DEDN188U	Black	2,000 ft

History

Update and Revision:	Revision Number: 0.127 Revision Date: 12-22-2023
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