



Product: [DEDN168U](#)

Indoor/Outdoor Digital Electricity Copper Cable, #16-8pr, TC, PVC, CMG, PVC Jkt

Product Description

Indoor/Outdoor Digital Electricity Copper Cable, 8-16 AWG Stranded (7x24) Tinned Copper Pairs, PVC insulation, Unshielded, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Digital Electricity™, remote powering, wet locations, in-conduit
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
16	7x24	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	0.581 in	0.040 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
4.55 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
24.5 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:	229 lbs/1000ft
Max. Pull Tension:	570 lbs
Min. Bend Radius/Minor Axis:	5.81 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 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, LS0H, Toxicity Testing

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

Part Number**Variants**

Item #	Color	Length
DEDN168U	Black	2,000 ft

History

Update and Revision:	Revision Number: 0.54 Revision Date: 10-07-2021
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