



Product: [DEDN182U](#)

Indoor/Outdoor Digital Electricity™, 2 Pr #18 Str, TC, PVC, CL4, CMG, PVC Jkt, Wet Locations

Product Description

Indoor/Outdoor Digital Electricity™ Copper Cable, 2 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
------------------------	--

Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Pairs
18	7x26	TC - Tinned Copper	2
Conductor Count:			4
Total Number of Pairs:			2

Insulation	
Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.017 in

Color Chart	
Number	Color
1	Black & Red
2	Black & White

Outer Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.352 in	0.032 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]	
6.4 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:	48 lbs/1000ft
Max. Pull Tension:	90 lbs
Min. Bend Radius/Minor Axis:	3.5 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
DEDN182U	Black	2,000 ft

History

Update and Revision:	Revision Number: 0.132 Revision Date: 12-22-2023
----------------------	--

© 2024 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.