



Part Number: 3083A

DeviceNet™, (1 pr) 15 AWG (19x28) TC, (1 pr) 18 AWG (19x30) TC, PVC-FPE/CPE, Foil+TC Braid Shld, CMG, PLTC-ER

Product Description

One 15 AWG stranded (19x28) tinned copper conductors, one 18 AWG stranded (19x30) tinned copper conductors, PVC insulation (power), foam polyethylene (FPE) insulation (data), individual foil shield (100% coverage) plus an overall tinned copper braid (65% coverage), CPE jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
15	19x28	TC - Tinned Copper	1
18	19x30	TC - Tinned Copper	1
Total Number of Conductors:			4

Insulation:

Element	Material
15	PVC - Polyvinyl Chloride
18	FPE - Foam Polyethylene

Color Chart 1:

Number	Color
1 (15 AWG)	Red & Black
2 (18 AWG)	Blue & White

Stranding:

Lay Length
1 MHz

Innershield:

Type	Layer	Material	Coverage [%]
Tape	15 AWG Pair	Aluminum Foil-Polyester Tape	100 %
Tape	18 AWG Pair	Aluminum Foil-Polyester Tape	100 %

Outershield 1:

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Braid	TC - Tinned Copper	65 %	TC - Tinned Copper	18	19x30 mm

Outerjacket 1:

Material	Nominal Diameter
CPE - Chlorinated Polyethylene	0.475 in

Electrical Characteristics**Conductor DCR:**

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
15 AWG	3.6 Ohm/1000ft	1.8 Ohm/1000ft
18 AWG	6.9 Ohm/1000ft	

Capacitance:

Element	Nom. Capacitance Conductor to Conductor
18 AWG Pair Only	12 pF/ft

Delay:

Max. Delay	Max. Delay Description	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.36 ns/ft	18 AWG Pair Only	75 %	18 AWG Pair Only

High Freq:

Element	Frequency [MHz]	Max./Min. Input Impedance (unFitted)
18 AWG Pair Only		120 Ohm
18 AWG Pair Only		
	0.125 MHz	
	0.5 MHz	
	1 MHz	

Current:

Element	Max. Recommended Current [A]
15 AWG	8.0 Amps
18 AWG	5.0 Amps

Voltage:

UL Voltage Rating
300 V RMS (PLTC CMG)

Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	190 lbs

Safety

CSA Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading

Temperature Range

Non-UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.8 in
-----------------------------	--------

Part Number

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
Other Specification:	Other Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

History

Notes:

Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark. Jacket printed "1PR16" instead of "1PR15" due to UL requirements for CMG Listing.

Product Variants

Part Number	Color	Put-Up Type	Length
3083A 5601000	YELLOW, BRIGHT	Reel	1000 ft
3083A 5602000	YELLOW, BRIGHT	Reel	2000 ft

© 2016 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.