



Part Number: 3082F

DeviceNet™, (1 pr) 15 AWG (65x33) TC, (1 pr) 18 AWG (65x36) TC, PVC-FPE/PVC, Foil+TC Braid Shld, CMG, PLTC-ER

Product Description

One 15 AWG stranded (65x33) tinned copper conductors, one 18 AWG stranded (65x36) tinned copper conductors, PVC insulation (power), foam polyethylene (FPE) insulation (data), individual foil shield (100% coverage) plus an overall tinned copper braid (65% coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
15	65x33	TC - Tinned Copper	1
18	65x36	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	65x36 mm

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.48 in	0.06 in

Print Legend:	BELDEN 3082F DEVICEBUS(R) HIGH FLEX THICK CABLE 1PR16 1PR18 SHIELDED (UL) E34972 CMG 75C OR PLTC SUN RES OR AWM 20201 600V C(UL) CMG OR AWM I/II A 80C 300V---FT4 OIL RES (1 METER MARKING, '---METER---')
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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

Inductance:

Element	Nominal Inductance
15 AWG Pair Only	0.174 μ H/ft

Voltage:

UL Description	UL Voltage Rating
C(UL) AWM	300 V RMS

Use

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	205 lbs

Safety

CSA Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading

Temperature Range

Operating Temp Range:	-20°C To +75°C
UL Temp Rating:	75°C (UL AWM Style 20201)

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.6 in
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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
CSA AWM Specification:	CSA Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
Other Specification:	Other Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	High-Flex. 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.
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Product Variants

Part Number	Color	Put-Up Type	Length
3082F 0021000	RED	Reel	1000 ft
3082F T5U1000	GRAY T5U	Reel	1000 ft
3082F T5U2000	GRAY T5U	Reel	2000 ft
3082F T5U500	GRAY T5U	Reel	500 ft

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