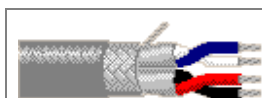


3082A Multi-Conductor - DeviceBus® for ODVA DeviceNet™



For more Information
please call

1-800-Belden1



Description

15 and 18 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (data), individually foil shielded (100% coverage) plus an overall tinned copper braid (65% coverage), sunlight/oil-resistant PVC jacket.

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material
1.000	15	19x28	TC - Tinned Copper
1.000	18	19x30	TC - Tinned Copper

Insulation:

Insulation Material

Insulation Material	AWG
PVC - Polyvinyl Chloride	15
FPE - Foam Polyethylene	18

Inner Shield:

Inner Shield Material

Layer #	Type	Inner Shield Material	Coverage (%)
15 AWG Pair	Tape	Aluminum Foil-Polyester Tape	100
18 AWG Pair	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield:

Outer Shield Material

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	65

Outer Shield Drain Wire AWG

AWG	Stranding	Drain Wire Conductor Material
18	19x30	TC - Tinned Copper

Outer Jacket:

Outer Jacket Material

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.060

Overall Cabling:

Overall Nominal Diameter: .480 in.

Pair:

Pair Color Code Chart

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

Mechanical Characteristics (Overall):

Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C (UL AWM Style 20201)
Bulk Cable Weight:	108 lbs/1000 ft.
Max. Recommended Pulling Tension:	190 lbs.

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Min. Bend Radius (Install)/Minor Axis: 4.600 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CMG, PLTC-ER
CEC/C(UL) Specification	CMG
AWM Specification	UL Style 20201 (600 V 75°C)
CSA Specification	I/II A
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	04/01/2005
Other Specification	ODVA Class 2 Thick

Flame Test:

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

Suitability:

Sunlight Resistance	Yes
Oil Resistance	Yes

Plenum/Non-Plenum:

Plenum (Y/N)	No
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Electrical Characteristics (Overall):

Unaveraged Impedance

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
18 AWG Pair Only				120.000

Nom. Inductance

Description	Inductance (µH/ft)
15 AWG Pair Only	0.174

Nom. Capacitance Conductor to Conductor

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/ft)
18 AWG Pair Only	1.000			12.000

Nominal Velocity of Propagation

Description	VP (%)
18 AWG Pair Only	75

Maximum Delay

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Delay (ns/ft)
18 AWG Pair Only				1.360

Nom. Conductor DC Resistance

Description	DCR @ 20°C (Ohm/1000 ft)
15 AWG	3.600
18 AWG	6.900

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
1.800

Max. Attenuation

Description	Freq. (MHz)	Attenuation (dB/100 ft.)
18 AWG Pair Only	0.125	0.130
	0.500	0.250
	1.000	0.360

Max. Operating Voltage - UL

Voltage	Description
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300 V RMS	C(UL) AWM
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Max. Recommended Current

Description	Current
15 AWG	8.0 Amps
18 AWG	5.0 Amps

Notes (Overall):

Notes Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Associatio, Inc. Trademark

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3082A 0021000	1,000 FT	138.000 LB	RED	C	2 #15, 2 #18 SHLD FRPVC RED
3082A T5U1000	1,000 FT	138.000 LB	GRAY T5U	C	2 #15, 2 #18 SHLD PVC GRYT5U
3082A T5U2000	2,000 FT	280.000 LB	GRAY T5U	C	2 #15, 2 #18 SHLD PVC GRYT5U
3082A T5U500	500 FT	71.000 LB	GRAY T5U	C	2 #15, 2 #18 SH PVC GRYT5U

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 06-02-2008

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