

BELDENCable^{**}

3082A Paired - DeviceBus® for ODVA DeviceNetTM





Metric Version
For more information please call
1-800-Belden1

See Put-ups and Colors

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:

CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4

AWG:

Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (mm)
1	15	19x28	TC - Tinned Copper	
1	18	19x30	TC - Tinned Copper	

Stranding	19x28, 19x30
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material PVC - Polyvinyl Chloride, FPE - Foam Polyethylene

Insulation Material (Multi-AWG):

AWG	Layer Number	Material Trade Name	Material	Wall Thickness (mm)	Diameter (mm)
15			PVC - Polyvinyl Chloride		
18			FPE - Foam Polyethylene		

Pair Color Code Chart:

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

INNER SHIELD:

Inner Shield Type	Tape/Tape	
Inner Shield Material:		



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Layer Number/Descri ption	Material Trade Name	Туре	Material	% Coverage (%)	Stranding	Diameter (mm)	Conductor Material
15 AWG Pair		I .	Aluminum Foil- Polyester Tape	100			
18 AWG Pair		1	Aluminum Foil- Polyester Tape	100			

Inner Shield % Coverage 100 %

OUTER SHIELD:

Outer Shield Type

Braid

Outer Shield Material

TC - Tinned Copper

Outer Shield %Coverage 65 %

OUTER SHIELD DRAIN WIRE:

Outer Shield Drain Wire AWG

Outer Shield Drain Wire Stranding

19x30

Outer Shield Drain Wire Conductor Material

TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride
Outer Jacket Nominal Wall Thickness 1.524 mm

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter 12.192 mm

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C (UL AWM Style 20201)
Bulk Cable Weight	160.726 Kg/Km
Max. Recommended Pulling Tension	845.158 N
Min. Bend Radius (Install)	116.84 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG, PLTC OPEN WIRING
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:



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UL Flame Test

CSA Flame Test

FT4

SUITABILITY:

Sunlight Resistance

Yes

Oil Resistance

Yes

PLENUM/NON-PLENUM:

Plenum (Y/N)

ELECTRICAL CHARACTERISTICS:

Unaveraged Impedance:

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Unaveraged Impedance (Ohms)
18 AWG Pair Only				120

Nom. Inductance:

Description	Nom. Inductance (μH/m)
15 AWG Pair Only	0.571

Nom. Capacitance Conductor to Conductor:

Description	Frequency (kHz)	Start Frequency (kHz)	 Nom. Capacitance Conductor to Conductor (pF/m)
18 AWG Pair Only	1		39.372

Nominal Velocity of Propagation:

Description	Nominal Velocity of Propagation (%)
18 AWG Pair Only	75

Maximum Delay:

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum Delay (ns/m)
18 AWG Pair Only				4.462

Nom. Conductor DC Resistance @ 20 Deg. C :

Description	Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/km)		
15 AWG	11.812		
18 AWG	22.639		

Nominal Outer Shield DC Resistance @ 20 Deg. C 5.906 Ohms/km

Max. Attenuation (dB/100 ft.):

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100m)
18 AWG Pair Only	0.125			0.427
	0.5			0.82
	1			1.312

Max. Operating Voltage - UL:

UL Voltage	UL
300 V RMS	C(UL) AWM



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Max.	Recommend	ded (Current	:
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Description	Max. Recommended Current
15 AWG	8.0 Amps
18 AWG	5.0 Amps

NOTES:

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	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
	2 #15, 2 #18 SHLD PVC	304.8	62.652	GRAY T5U	С
	2 #15, 2 #18 SHLD PVC	609.6	127.12	GRAY T5U	С
3082A T5U500	2 #15, 2 #18 SH PVC	152.4	32.234	GRAY T5U	С

C = CRATE REEL PUT-UP.

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