

3086A Paired - DeviceBus® for DeviceNet

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

16 and 20 AWG stranded tinned copper, PVC insulation (power), FPE insulation (data), each pair individually Beldfoil® shielded, PVC jacket

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4

AWG :

Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (in.)
1	16	19x29	TC	.067
1	20	19x32	TC	.041

INSULATION:

Insulation Material (Multi-AWG) :

AWG	Layer Number	Material Trade Name	Material	Wall Thickness (in.)	Diameter (in.)
16			PVC		
20			FPE		

Insulation Resistance 10000 Mega-Ohm

PAIR:

Pair Lay Length 2.0 in.

Pair Shield Material :

Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
16 AWG Pair		Tape	Aluminum Foil-Polyester	100			
20 AWG Pair		Tape	Aluminum Foil-Polyester	100			

Pair Color Code Chart :

Number	Color	Number	Color
16 AWG Pair	Blue & Brown	20 AWG Pair	Black & White

OUTER SHIELD:

Outer Shield Material Unshielded

OUTER SHIELD DRAIN WIRE :

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Outer Shield Drain Wire AWG	20
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.398 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +80°C
Storage Temperature Range	-40°C To +80°C
Temperature Rating	80°C
Bulk Cable Weight	78.8 lbs/1000 ft.
Max. Recommended Pulling Tension	121 lbs.
Min. Bend Radius (Install)	4 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CL2
CEC/C(UL) Specification	FT1
AWM Specification	2464 I/II A

FLAME TEST:

UL Flame Test	1581 Vertical Tray
CSA Flame Test	FT1

ELECTRICAL CHARACTERISTICS:

Unaveraged Impedance :

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

Nom. Capacitance Conductor to Conductor :

Description	Frequency (kHz)	Start Frequency (kHz)	Stop Frequency (kHz)	Nom. Capacitance Conductor to Conductor (pF/ft)
20 AWG Pair Only	1			12.0

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
20 AWG Pair Only	76

Nom. Conductor DC Resistance @ 20 Deg. C :

Description	Nom. Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)
16 AWG	3.6
20 AWG	10.0

Nominal Outer Shield DC Resistance @ 20 Deg. C 5.5 Ohms/1000 ft



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Nom. Attenuation (dB/100 ft) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
20 AWG Pair Only	.125			.18
	.500			.35
	1.0			.47

Max. Operating Voltage - UL 300 V RMS

Max. Recommended Current :

Description	Max. Recommended Current
16 AWG	7.0 Amps
20 AWG	3.5 Amps

NOTES:

Notes Mini-Cable (Trunk)

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3086A U3R1000	#20 FS PR, #16 FSPR PVC	1000	80	GRAY U3R	C Z
3086A U3R500	#20 FS PR, #16 FSPR PVC	500	40	GRAY U3R	C Z

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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