



3084F Paired - DeviceBus® for ODVA 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:

300V Class 2 Thin, 22 and 24 AWG stranded tinned copper conductors, PVC insulation (power), FRFPE insulation (Data), 100% individually foil shielded and an overall 65% tinned copper braid, drain wire, sunlight/oil-resistant PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2
Number of Conductors	4

AWG :

Number of Pairs	AWG	Stranding	Conductor Material	Conductor Diameter (in.)
1	22	154x44	TC - Tinned Copper	
1	24	105x44	TC - Tinned Copper	

Stranding	154x44, 105x44
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PVC - Polyvinyl Chloride, FPE - Foam Polyethylene
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Insulation Material (Multi-AWG) :

AWG	Layer Number	Material Trade Name	Material	Wall Thickness (in.)	Diameter (in.)
22			PVC - Polyvinyl Chloride		
24			FPE - Foam Polyethylene		

Pair Color Code Chart :

Number	Color	Number	Color
22 AWG Pair	Red & Black	24 AWG Pair	Blue & White

INNER SHIELD:

Inner Shield Type	Tape/Tape
Inner Shield Material :	



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Layer Number/Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
22 AWG Pair	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			
24 AWG Pair	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			

Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	22
Inner Shield Drain Wire Stranding	26x36
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER SHIELD:

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

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.275 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	41 lbs/1000 ft.
Max. Recommended Pulling Tension	65 lbs.
Min. Bend Radius (Install)	2.75 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMG, CL2
CEC/C(UL) Specification	CMG
CSA Specification	I/II A
Other Specification	ODVA Class 2 Thin

FLAME TEST:

UL Flame Test	UL1685 FT4 Loading
CSA Flame Test	FT4

SUITABILITY:

Sunlight Resistance	Yes
Oil Resistance	Yes



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PLENUM/NON-PLENUM:

Plenum (Y/N) N

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance :

Description	Nom. Characteristic Impedance (Ohms)
24 AWG Pair	120

Nom. Capacitance Conductor to Conductor :

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

Nominal Velocity of Propagation :

Description	Nominal Velocity of Propagation (%)
24 AWG Pair	75

Maximum Delay :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum Delay (ns/ft)
24 AWG Pair				1.36

Maximum Conductor DC Resistance :

Description	Maximum Conductor DC Resistance @ 20 Deg. C (Ohms/1000 ft)
22 AWG	17.5
24 AWG	28.0

Nominal Outer Shield DC Resistance @ 20 Deg. C 3.2 Ohms/1000 ft

Max. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
24 AWG Pair Only	.125			.29
	.500			.50
	1.000			.70

Max. Operating Voltage - UL :

UL Voltage	UL
300 V RMS	CL2, CMG
300 V RMS	C(UL) AWM

Max. Recommended Current 1.7 Amps per conductor @ 25°C (24 AWG), 5 Amps per conductor @ 25°C (22 AWG)

NOTES:

Notes Hi-Flex. Thin. Flex Test Results: "S-Bend" Flex Test - 4" Diameter Wheels, 2 lbs. tension: 150,000 Cycles Averaged. +/-90 Degree Flex Test: 2" Diameter, 2 lbs. tension - 8500 Cycles Averaged. Flex tests were conducted at less than the recommended cable minimum bend radius. Actual cable performance will depend on the individual application. Meter marks on jacket to aid users in installation.



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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3084F T5U1000	2 #22, 2 #24 SH PVC	1000	45	GRAY T5U	C
3084F T5U2000	2 #22, 2 #24 SH PVC	2000	90	GRAY T5U	C
3084F T5U500	2 #22, 2 #24 SH PVC	500	23.5	GRAY T5U	C N

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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