

**Industrial Data Solutions® — Industrial Data**

DeviceBus® for ODVA DeviceNet™

**DeviceNet Communications Rate Table**

Communications Rate	Maximum Distance																			
	3082A		3082F		3082K		3083A		3084F		3084A/3085A		7895A		7896A		7897A		7900A	
	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m	Ft.	m
125 Kbps	1640	500	1640	500	1378	420	1640	500	328	100	328	100	984	300	1378	420	1640	500	328	100
250 Kbps	820	250	820	250	656	200	820	250	328	100	328	100	820	250	656	200	820	250	328	100
500 Kbps	328	100	328	100	246	75	328	100	328	100	328	100	328	100	328	100	328	100	328	100

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

**600V Class 1 Thick** • 15 and 18 AWG Stranded TC Conductors • Individually Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)**PVC/Nylon Insulation (Power) • FEP Insulation (Data) • Gray Sunlight/Oil-resistant PVC Jacket**

<b>High Velocity Thick</b> 600V 75°C	<b>7897A</b>	NEC:	500	152.4	69.5	31.6	(2)15 AWG TC	100%	Power Pair:	.460	11.7	—	—	—	—	—	—	—	—	—
		TC-ER	1000	304.8	135.0	61.3	(19x28)	Individual Foil	Red&Black											
			2000	609.6	274.0	124.4	3.6Ω/M'	11.8Ω/km	+ Overall											
						(2)18 AWG TC	65%	Data Pair:			120	75%	12.0	39.4	.125	.13	.43			
						(19x30)	TC Braid	Blue&White							.500	.25	.82			
						6.9Ω/M'	1.8Ω/M'								1.000	.40	1.31			
						22.6Ω/km	5.9Ω/km													



18 AWG stranded (19x30) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A

**600V Class 1 ODVA Cable V** • 16 and 18 AWG Stranded TC Cond. • Individ. Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)**PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Gray Sunlight/Oil-resistant PVC Jacket**

<b>600V 75°C</b>	<b>7896A</b>	NEC:	500	152.4	89.0	40.4	(2)16 AWG TC	100%	Power Pair:	.525	13.34	—	—	—	—	—	—	—	—	—
		TC-ER	1000	304.8	168.0	76.2	(19x29)	Individual Foil	Red&Black											
			2000	609.6	340.0	154.2	4.9Ω/M'	16.1Ω/km	+ Overall											
						(2)18 AWG TC	65%	Data Pair:			120	64%	14.7	48.2	.125	.13	.43			
						(19x30)	TC Braid	Blue&White							.500	.25	.82			
						6.9Ω/M'	1.8Ω/M'								1.000	.40	1.31			
						22.6Ω/km	5.9Ω/km													



C(UL) AWM I/II A/B  
16 AWG stranded (19x29) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-A

**600V Class 1 ODVA Cable IV** • 16 and 18 AWG Stranded Tinned Copper Conductors • Unshielded**PVC/Nylon Insulation (Power) • F-R Polypropylene Insulation (Data) • Gray Sunlight/Oil-resistant PVC Jacket**

<b>Drop</b> 600V 75°C	<b>7900A</b>	NEC:	500	152.4	51.0	23.1	(2)16 AWG TC	Unshielded	Power Pair:	.430	10.92	—	—	—	—	—	—	—	—	—
		TC-ER	1000	304.8	105.0	47.6	(19x29)		Red&Black											
		CEC: FT1					4.9Ω/M'	16.1Ω/km												
						(2)18 AWG TC		Data Pair:			120	64%	14.7	48.2	.125	.13	.43			
						(19x30)		Blue&White							.500	.25	.82			
						6.9Ω/M'									1.000	.40	1.31			
						22.6Ω/km														



C(UL) AWM I/II A/B  
Meter marks on jacket to aid users in installation.  
Allen-Bradley P/N 1485 CPI-C

DCR = DC Resistance • FEP = Fluorinated Ethylene-propylene • F-R = Flame-retardant • TC = Tinned Copper • TC-ER = Tray Cable Exposed Run per 2005 NEC Article 336

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.

**BELDEN**

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

# Industrial Data Solutions® — Industrial Data

DeviceBus® for ODVA DeviceNet™

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

### 300V Class 2 Thick • 15 and 18 AWG Stranded TC Cond. • Individually Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)

#### PVC Insulation (Power) • FPE Insulation (Data) • Sunlight- and Oil-resistant PVC Jacket (Available in Gray or Red)

Thick 75°C	<b>3082A</b>	NEC: CMG, PLTC-ER, CEC: CMG FT4	500†	152.4	71.0	32.2	(2)15 AWG TC (19x28)	100% Individual Foil + Overall 65% TC Braid	Power Pair: Red&Black	.480	12.19	—	—	—	—	—	—	—	—
			1000	304.8	138.0	62.6													
			2000†	609.6	280.0	127.0			Data Pair: Blue&White			120	75%	12.0	39.4	.125	.13	.43	
																.500	.25	.82	
																1.000	.36	1.18	

†500 ft. and 2000 ft. put-ups not available in Red.

UL AWM 20201 (600V) • C(UL) AWM I/II A

18 AWG stranded (19x30) tinned copper drain wire.

Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-A

High-Flex Thick 75°C	<b>3082F</b>	NEC: CMG, PLTC-ER, CEC: CMG FT4	500†	152.4	72.5	32.9	(2)15 AWG TC (65x33)	100% Individual Foil + Overall 65% TC Braid	Power Pair: Red&Black	.480	12.19	—	—	—	—	—	—	—	—
			1000	304.8	140.0	63.5													
			2000†	609.6	284.0	128.8			Data Pair: Blue&White			120	75%	12.0	39.4	.125	.13	.43	
																.500	.25	.82	
																1.000	.36	1.18	

†500 ft. and 2000 ft. put-ups not available in Red.

UL AWM 20201 (600V) • C(UL) AWM I/II A

18 AWG stranded (65x36) tinned copper drain wire.

Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-A

#### PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket

Thick 75°C	<b>3083A</b>	NEC: CMG, PLTC, CEC: CMG FT4	1000	304.8	137.0	62.1	(2)15 AWG TC (19x28)	100% Individual Foil + Overall 65% TC Braid	Power Pair: Red&Black	.475	12.07	—	—	—	—	—	—	—	—
			2000	609.6	278.0	126.1													
									Data Pair: Blue&White			120	75%	12.0	39.4	.125	.13	.43	
																.500	.25	.82	
																1.000	.36	1.18	

18 AWG stranded (19x30) tinned copper drain wire.

Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-A

### 300V Class 2 Thin • 22 and 24 AWG Stranded TC Conductors • Individ. Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)

#### PVC Insulation (Power) • FPE Insulation (Data) • Gray Sunlight- and Oil-resistant PVC Jacket

Thin 75°C	<b>3084A</b>	NEC: CL2 CMG, CEC: CMG FT4	500	152.4	22.0	10.0	(2)22 AWG TC (19x34)	100% Individual Foil + Overall 65% TC Braid	Power Pair: Red&Black	.280	7.11	—	—	—	—	—	—	—	—
			1000†	304.8	47.0	21.3													
			2000	609.6	96.0	43.6			Data Pair: Blue&White			120	75%	12.0	39.4	.125*	.29*	.95*	
																.500*	.50*	1.64*	
																1.000*	.70*	2.30*	

†1000 ft. put-up also available in Red.

22 AWG stranded (19x34) tinned copper drain wire. • C(UL) AWM I/II A

Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-C

High-Flex Thin 75°C	<b>3084F</b>	NEC: CL2 CMG, CEC: CMG FT4	500	152.4	22.0	10.0	(2)22 AWG TC (154x44)	100% Individual Foil + Overall 65% TC Braid	Power Pair: Red&Black	.275	6.99	—	—	—	—	—	—	—	—
			1000	304.8	47.0	21.3													
			2000	609.6	96.0	43.6			Data Pair: Blue&White			120	75%	12.0	39.4	.125*	.29*	.95*	
																.500*	.50*	1.64*	
																1.000*	.70*	2.30*	

C(UL) AWM I/II A

22 AWG stranded (26x36) tinned copper drain wire.

Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-C

#### PVC Insulation (Power) • FPE Insulation (Data) • Yellow CPE Jacket

Thin 75°C	<b>3085A</b>	NEC: CL2 CMG, CEC: CMG FT4	500	152.4	25.0	11.4	(2)22 AWG TC (19x34)	100% Individual Foil + Overall 65% TC Braid	Power Pair: Red&Black	.280	7.11	—	—	—	—	—	—	—	—
			1000	304.8	47.0	21.4													
			2000	609.6	96.0	43.6			Data Pair: Blue&White			120	75%	12.0	39.4	.125*	.29*	.95*	
																.500*	.50*	1.64*	
																1.000*	.70*	2.30*	

22 AWG stranded (19x34) tinned copper drain wire.

Meter marks on jacket to aid users in installation. • Allen-Bradley P/N 1485 CPI-C

DCR = DC Resistance • FPE = Foam Polyethylene • PLTC-ER = Power Limited Tray Cable - Exposed Run per 2005 NEC Article 725 • TC = Tinned Copper

\*These values are Maximum Attenuation.

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

**Industrial Data Solutions® — Industrial Data**

DeviceBus® for ODVA DeviceNet™

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Maximum Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

**300V Class 2 ODVA Cable III • 20 and 18 AWG Stranded TC Cond. • Indiv. Foil Shielded (100% Coverage) + Overall TC Braid (65% Coverage)****PVC Insulation (Power) • FPE Insulation (Data) • Gray Sunlight/Oil-resistant PVC Jacket**

Mid 75°C	<b>7895A</b>	NEC: CMG PLTC CEC: CMG FT4	500 1000	152.4 304.8	41.0 84.0	18.6 38.1	(2)18 AWG TC (19x30) 6.9Ω/M' 22.6Ω/km (2)20 AWG TC (19x32) 10.9Ω/M' 35.8Ω/km	100% Individual Foil + Overall 65% TC Braid 10.5Ω/km	Power Pair: Red&Black	.378 9.60	— —	— —	— —	— —	— —	— —	— —	— —
									Data Pair: Blue&White		120	75%	12.0	39.4	.125 .500 1.000	.29 .50 .70	.95 1.64 2.30	



UL AWM 20201 (600V)  
20 AWG stranded (19x32) tinned copper drain wire.  
Meter marks on jacket to aid users in installation.

**Flat • 16 AWG Stranded (19x29) Tinned Copper Conductors • Unshielded****PVC Insulation (Power) • FPE Insulation (Data) • Gray Sunlight-resistant PVC Jacket**

Class 2 300V 75°C	<b>3082K</b>	NEC: CMG CL2 PLTC CEC: CMG FT4	246 656 1378	75.0 200.0 420.0	30.8 78.7 165.4	14.0 35.7 75.1	(4)16 AWG TC (19x29) 4.9Ω/M' 16.1Ω/km	Unshielded	Power Pair: Red&Black	.760 x .210	10.92 x 5.33	— —	— —	— —	— —	— —	— —	— —
									Data Pair: Blue&White		120	75%	14.7	48.2	.125 .500 1.000	.13 .25 .40	.43 .82 1.31	

Allen-Bradley P/N 1485 CPI-G

**PVC Insulation • Black Sunlight-resistant PVC Jacket**

Class 1 Power 600V 75°C	<b>3082KP</b>	NEC: CMG, ITC, PLTC, TC CEC: CMG FT4	246 656 1378	75.0 200.0 420.0	32.0 81.3 170.9	14.5 36.9 77.6	(4)16 AWG TC (19x29) 4.9Ω/M' 16.1Ω/km	Unshielded	Red&Black, Blue&White	.760 x .210	10.92 x 5.33	— —	— —	— —	— —	— —	— —	— —
															.125 .500 1.000	.13 .25 .40	.43 .82 1.31	

Allen-Bradley P/N 1485 CPI-G


DCR = DC Resistance • FPE = Foam Polyethylene • F-R = Flame-retardant • TC = Tinned Copper if conductor, or Tray Cable if NEC rating.

ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.

**Industrial Data Solutions® — Industrial Data****DeviceBus® for Honeywell Smart Distributed System**

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

**22 AWG Stranded Tinned Copper Conductors • Each Pair Individually Beldfoil® Shielded (100% Coverage) • Drain Wire****PVC Insulation (Power) • FPE Insulation (Data) • Gray PVC Jacket**

UL AWM Style 2464 30V 80°C CSA AWM I/II A	<b>3087A</b>	NEC: CL2 CEC: FT1	500 1000 2000	152.4 304.8 609.6	19.0 41.0 84.0	8.6 18.6 38.1	(4)22 AWG (19x34) .030" Tinned Copper 17.5Ω/M' 57.4Ω/km	100% Beldfoil Each Pair	Power Pair: Blue&Brown	.290 7.37	—	—	—	—	—	—	—	—	—
								Data Pair: Black&White		120	76%	12.0	39.4	.125 .500 1.000	.23 .42 .60	.76 1.38 1.97			

Micro Cable (Drop)

22 AWG stranded (19x34) tinned copper drain wire.

**16 and 20 AWG Stranded Tinned Copper Conductors • Each Pair Individually Beldfoil Shielded (100% Coverage) • Drain Wire****PVC Insulation (Power) • FPE Insulation (Data) • Gray PVC Jacket**

UL AWM Style 2464 30V 80°C CSA AWM I/II A	<b>3086A</b>	NEC: CL2 CEC: FT1	500 1000	152.4 304.8	43.5 88.0	19.7 39.9	(2)16 AWG TC (19x29) .067" 3.6Ω/M' 11.8Ω/km (2)20 AWG TC (19x32) .041" 10.0Ω/M' 32.8Ω/km	100% Beldfoil Each Pair	Power Pair: Blue&Brown	.398 10.11	—	—	—	—	—	—	—	—	—
								Data Pair: Black&White		120	76%	12.0	39.4	.125 .500 1.000	.18 .35 .47	.59 1.15 1.54			


Mini Cable (Trunk)

20 AWG stranded (19x32) tinned copper drain wire.


DCR = DC Resistance • FPE = Foamed Polyethylene • TC = Tinned Copper

**Industrial Data Solutions® — Industrial Data**

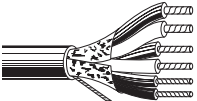
DeviceBus® for Square D/Seriplex®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance*	
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m
<b>18 and 22 AWG</b> Stranded Tinned Copper Conductors • Overall 100% Beldfoil® Shield (100% Coverage) • 22 AWG (7x30) TC Drain Wire															
<b>Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket</b>															
UL AWM Style 20201 (600V 75°C)	<b>3124A</b>	NEC: CL2 CM CEC: CM	1000	304.8	47.0	21.3	(2)18 AWG (16x30) .040" TC 6.8Ω/M' 21.3Ω/km (2)22 AWG (7x30) .030" TC 18.1Ω/M' 59.4Ω/km	100% Overall Beldfoil Shield 10.7Ω/M' 35.1Ω/km	Power Cdrs: Red&Black  Data Cdrs: White&Green	.308	7.82	—	—	20.0	65.6
													78%	16.0	52.5
Seriplex CBL 1822-P18															

**16 and 22 AWG** Stranded Tinned Copper Conductors • Overall 100% Beldfoil Shield (100% Coverage) • 22 AWG (7x30) TC Drain Wire

<b>Foam HDPE Insulation (Power) • Foam HDPE Insulation (Data) • Orange PVC Jacket</b>															
300V 75°C	<b>3125A</b>	NEC: CL2 CM CEC: CM	500 1000	152.4 304.8	31.5 63.0	14.3 28.6	(2)16 AWG (26x30) .060" TC 4.5Ω/M' 14.8Ω/km (2)22 AWG (7x30) .030" TC 18.1Ω/M' 59.4Ω/km	100% Overall Beldfoil Shield 10.7Ω/M' 35.1Ω/km	Power Cdrs: Red&Black  Data Cdrs: White&Green	.368	9.35	—	—	28.0	91.9
													78%	16.0	52.5
Seriplex CBL 1622-P1															

**16, 22 and 12 AWG** Stranded Tinned Copper Conductors • Overall Beldfoil Shield (100% Coverage) • 22 AWG (7x30) TC Drain Wire

<b>Foam HDPE Insulation (Control) • Foam HDPE Insulation (Data) • PVC Insulation (Power) • Orange PVC Jacket</b>															
300V 75°C	<b>3126A</b>	NEC: CL2 CM CEC: CM	1000	304.8	112.0	50.8	(2)16 AWG (26x30) .060" TC 4.5Ω/M' 14.7Ω/km (2)22 AWG (7x30) .030" TC 18.1Ω/M' 59.4Ω/km (2)12 AWG (65x30) .090" TC 1.8Ω/M' 5.9Ω/km	100% Overall Beldfoil Shield 10.7Ω/M' 35.1Ω/km	Control Cdrs: Red&Black x x .363 9.22  Data Cdrs: White&Green  Power Cdrs: Black&White, Red&White	.486 x x .363	12.34 x x 9.22	—	—	28.0	91.9
													78%	16.0	52.5
Seriplex CBL 162212-P16															

DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

\*Capacitance between one conductor and other conductors connected to shield.

Square D/Seriplex is a Square D/Schneider AEG trademark.

**Industrial Data Solutions® — Industrial Data**

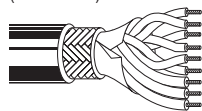
DeviceBus® for Phoenix Contact InterBus®-S



Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Shielding Materials Nom. DCR	Color Code	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance*	
			Ft.	m	Lbs.	kg				Inch	mm			pF/Ft.	pF/m

**18 and 24 AWG** Stranded Tinned Copper Conductors • Overall Beldfoil® Shield (100% Coverage) + Tinned Copper Braid (90% Coverage)**PVC Insulation (Power) • PE Insulation (Data) • Green Polyurethane Jacket**

UL AWM Style 20233 (300V 80°C)	<b>3119A</b>	—	500	152.4	35.5	16.1	(3)18 AWG (7x26) .060" TC 6.6Ω/M' 21.7Ω/km (3pr)24 AWG (7x32) .024" TC 23.4Ω/M' 76.8Ω/km	100% Overall Beldfoil + 90% TC Braid 2.7Ω/M' 8.9Ω/km	Power: Red, Blue, Green w/ Yellow Stripe  Data: Pink&Gray, White&Brown, Yellow&Green	.333	8.46	—	—	—	—
			1000	304.8	71.0	32.2				100	66%	15.4	50.5		

**24 AWG** Stranded Tinned Copper Conductors • Overall 100% Beldfoil Shield (100% Coverage) + Tinned Copper Braid (90% Coverage)**Polyethylene Insulation • Green Polyurethane Jacket**

UL AWM Style 20233 (300V 80°C)	<b>3120A</b>	—	500	152.4	26.0	11.8	(3pr)24 AWG (7x32) TC 26.0Ω/M' 85.3Ω/km	100% Overall Beldfoil + 90% TC Braid 2.7Ω/M' 8.9Ω/km	Pink&Gray, White&Brown, Yellow&Green	.277	7.04	100	66%	15.4	50.5
			1000	304.8	49.0	22.2				100	66%	15.4	50.5		



DCR = DC Resistance • PE = Polyethylene • PVC = Polyvinyl Chloride • TC = Tinned Copper

\*Capacitance between one conductor and other conductors connected to shield.

InterBus-S is a Phoenix Contact trademark.

**BELDEN**

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr