

**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	Red&Black											
			2000	609.6	274.0	124.4	3.6Ω/M'	Foil												
								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	Red&Black											
			2000	609.6	340.0	154.2	4.9Ω/M'	Foil												
								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.