

## Industrial Data Solutions® - Industrial Data

## ASI Bus Flatcable

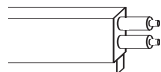


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation	
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.

**16 AWG** • Stranded (84x0.15) 1.5 mm Tinned Copper

**PVC Insulation • Yellow TPE-O Jacket**

300V 80°C	3999E		328	100	63.9	29.0	1.5 mm 16 AWG (84x0.15) TC	0.096	2.45	Unshielded	0.157	4.00							
											x	x							
											0.394	10.00							



2-Conductor

Color Code: Blue, Brown

## Industrial Data Solutions® - Industrial Data

## EIA Industrial RS-485 PLTC/CM

De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

**22 AWG** • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • **Beldfoil®** • 90% Tinned Copper Braid • 22 AWG Tinned Copper Drain Wire

**Datalene® Insulation • Black UV Resistant Jacket (CPE Jacket Optional)**

300V Oil Res II		NEC: CM PLTC CEC: CM FT1					0.76 mm 22 AWG (7x30) TC	0.087	2.21	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (22 AWG TC)			120	78%			
--------------------	--	-----------------------------------	--	--	--	--	--------------------------------	-------	------	--	--	--	-----	-----	--	--	--



<b>3105A</b>	1-Pair DMX512 Type	500	152	23.0	10.4						0.284	7.21			CDR/CDR	20.9	68.6	see chart
		1000	305	50.0	22.7										CDR/SCR	11.0	36.1	below
		† 5000	1524	255.2	115.8													

For CPE jacketed version order Part No. YR44345.

<b>3106A</b>	1.5-Pair*	500	152	27.1	12.3						0.300	7.62			CDR/CDR	20.9	68.6	White/Orange,
		1000	305	51.1	23.2										CDR/SCR	11.0	36.1	Orange/White
		† 5000	1524	260.4	118.1													Blue/White

For CPE jacketed version order Part No. YR46721.

<b>3107A</b>	2-Pair DMX512 Type	1000	305	69.1	31.3						0.356	9.04			CDR/CDR	20.9	68.6	see chart
		4000	1,219	300.2	136.2										CDR/SCR	11.0	36.1	below
		† 5000	1524	385.3	174.8													

For CPE jacketed version order Part No. YR46792.

<b>3108A</b>	3-Pair	1000	305	93.0	42.2						0.420	10.67			CDR/CDR	20.9	68.6	see chart
		2000	610	184.0	83.5										CDR/SCR	11.0	36.1	below

For CPE jacketed version order Part No. YR45287.

<b>3109A</b>	4-Pair	1000	305	107.2	48.6						0.420	10.67			CDR/CDR	20.9	68.6	see chart
		2000	610	218.2	99.0										CDR/SCR	11.0	36.1	below

For CPE jacketed version order Part No. YR44768.

TC = Tinned Copper • DCR = DC resistance

† Final put-up length may vary 0% to +10% from length shown. • \* All conductors are under the braid shield; one pair is under the Beldfoil shield.

## Color Code

Pair No.	Color
1	White/Blue Stripe, Blue/White Stripe
2	White/Orange Stripe, Orange/White Stripe
3	White/Green Stripe, Green/White Stripe
4	White/Brown Stripe, Brown/White Stripe

**Industrial Data Solutions® - Industrial Data**  
 Low-Capacitance Computer Cables for EIA RS-485 Applications



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

**24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Overall Beldfoil® + 90% Tinned Copper Braid • 24 AWG Tinned Copper Drain Wire**

**Polyethylene Insulation • Chrome PVC Jacket**

30V 80°C UL AWM Style 2919	NEC: CM CEC: CM					0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
-------------------------------	--------------------------	--	--	--	--	--------------------------------	-------	------	--	--	--	-----	-----	--------------------	--------------	--------------	---------------------------------------



DMX 512	<b>9841</b> 1-Pair	100	31	4.9	2.2						0.232	5.89						
		500	152	20.1	9.1													
		1000	305	40.1	18.2													
	<b>9842</b> 2-Pair	100	31	5.7	2.6							0.340	8.64					
		500	152	29.5	13.4													
		1000	305	57.1	25.9													
	<b>9843</b> 3-Pair	100	31	7.1	3.2							0.360	9.14					
		500	152	34.6	15.7													
		1000	305	67.2	30.5													
	<b>9844</b> 4-Pair	500	152	43.0	19.5							0.390	9.91					
		1000	305	83.1	37.7													

**Polyethylene Insulation • Chrome FRNC/LSNH Jacket**

80°C	IEC 332-3C BS 7655					0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
------	-----------------------	--	--	--	--	--------------------------------	-------	------	--	--	--	-----	-----	--------------------	--------------	--------------	---------------------------------------



	<b>9841NH</b> 1-Pair	1000	305	38.1	17.3						0.232	5.90						
		1640	500	65.0	29.5													
		3280	1000	124.8	56.6													
	<b>9842NH</b> 2-Pair	1000	305	64.4	29.2							0.341	8.65					
		1640	500	102.7	46.6													
		3280	1000	196.4	89.1													
	<b>9843NH</b> 3-Pair	1000	305	69.0	31.3							0.358	9.10					

**Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket**

80°C	IEC 332-3C BS 7655					0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
------	-----------------------	--	--	--	--	--------------------------------	-------	------	--	--	--	-----	-----	--------------------	--------------	--------------	---------------------------------------



	<b>9841LS</b> 1-Pair	1000	305	154.1	69.9						*0.232	*5.90						
		1640	500	276.9	125.6						**0.406	**10.30						
		3280	1000	624.3	283.2													
	<b>9842LS</b> 2-Pair	1000	305	195.5	88.7							*0.341	*8.65					
		1640	500	335.1	152.0							**0.516	**13.10					
		3280	1000	648.2	294.0													

\* Under Armor  
 \*\* Over Armor

TC = Tinned Copper • DCR = DC resistance

Special Cables



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

**25 AWG** • Stranded (7x33) 0.5 mm High-Conductivity Copper (Oxygen-Free) • (3) Strands TC, (4) Strands TCCS • Rayon Braid • 80% TC Braid

**Rayon Braid, Rubber Insulation • Black EPDM Rubber Jacket**

3000 VDC 60°C	<b>8410</b>		1640	500	18.5	8.4	0.53 mm 25 AWG (3x33, 4x33) TC, TCCS	0.154	3.91	Overall 80% TC Braid	0.245	6.22	52	-	CDR/CDR	33	108	-
------------------	-------------	--	------	-----	------	-----	---	-------	------	----------------------------	-------	------	----	---	---------	----	-----	---



Pulling Tension: 267 N

**22 AWG** • Stranded (7x0.25) Tinned Copper • Dual Twisted Pairs • Aluminum-Foil • 24 AWG (7x0.20) Drain Wire • 80% Tinned Copper Braid

**Polyethylene Insulation • Overall Matte PVC Jacket (Black or Blue)**

300V 70°C	<b>BE43906</b>		1640	500	68.8	31.2	0.75 mm 22 AWG (7x0.25) TC	0.053	1.35	Overall 80% TC Braid + Drain Wire (24 AWG TC)	0.268	6.80	110	-	CDR/CDR	21.3	70	White, Red, Green, Black
-----------	----------------	--	------	-----	------	------	----------------------------------	-------	------	---	-------	------	-----	---	---------	------	----	-----------------------------



DMX512  
0.34 mm<sup>2</sup>

1000 m put-up available in Black only.

22 AWG: 3105A - 1 Pair DMX512 (see Industrial section)  
3107A - 2 Pair DMX512 (see Industrial section)  
24 AWG: 9841, 9842, 9843 and 9844 (see Industrial section)

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm

**(2) Coax 20 AWG** • Solid 0.8 mm Bare Copper • **Duofoil®** • **(4) Audio 22 AWG (7x30) Tinned Copper Shielded Pair**

**Gas-Injected FPE Insulation (Coax) • Polypropylene Insulation (Conductors) • Black F-R PVC Jacket**

300V RMS 75°C	<b>1347A</b>	NEC: CMR CEC: CMR FT4	500	152	232.2	105.3	-	0.630	16.00	2xVideo	2-Coax (1505A) 20 AWG 0.8 mm Solid BC	Duofoil® 100% 95% TC Braid	HDPE	PVC Black, White	0.233	5.92
------------------	--------------	--------------------------------	-----	-----	-------	-------	---	-------	-------	---------	--	-------------------------------------	------	------------------------	-------	------



4xAudio	4 Pair 22 AWG 0.8 mm (7x30) BC	Overall Beldfoil® 100% + Drain Wire (22 AWG TC)	Polypropylene	PVC Brown, Red, Orange, Yellow	0.135	3.43 each Pair
---------	---	---	---------------	---	-------	-------------------

2 Coax + 4 Pair

Pulling Tension: 947 N

TC = Tinned Copper • TCCS = Tinned Copper-Covered Steel • BC = Bare Copper • DCR = DC resistance  
SCR = Capacitance between one conductor and other conductors connected to shield. • CDR = Capacitance between conductors

Duofoil® see technical information page 23.13.