

Industrial Data Solutions® – Industrial Twinax

Blue Hose® 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		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 ft.	dB/100 m

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 80°C	9463	NEC:	100	31	4.2	1.9	0.96 mm	0.076	1.92	Overall	0.238	6.05	78	66%	19.7	64.6	1	0.6	2.0
UL AWM Style 2464		CM CL2	U-500	U-152	18.5	8.4	20 AWG			Beldfoil®							10	2.1	6.9
		CEC:	500	152	18.5	8.4	(7x28) TC			+ Overall							50	5.0	16.4
		CM	U-1000	U-305	37.0	16.8				55% TC Braid							100	7.5	24.6
			1000	305	37.0	16.8				+ Drain Wire							200	11.0	36.1
			† 6000	1829	233.9	106.1				(20 AWG TC)							400	16.0	52.5
			† 10000	3048	370.8	168.2													



Z-Fold®

Color Code: Clear, Blue
305 m, 1829 m and 3048 m put-ups also available in Brown, Orange or Violet.

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*
CPE jacket optional.

Polyethylene Insulation • Blue FRNC/LSNH Jacket

300V 80°C	9463NH	IEC	1000	305	37.5	17.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
		332-3C	1640	500	64.6	29.3	20 AWG			Beldfoil®										
		BS 7655	3280	1000	117.5	53.3	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Polyethylene Insulation • Blue FRNC/LSNH Inner Jacket • Steel Wire Armor • Blue FRNC/LSNH Outer Jacket

300V 80°C	9463LS	IEC	1640	500	249.1	113.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
Steel Wire Armor		332-3C	3280	1000	537.9	244.0	20 AWG			Beldfoil®	0.423	10.75								
		BS 7655	4920	1500	925.9	420.0	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Polyethylene Insulation • Blue Sunlight-Resistant LDPE Jacket

300V 80°C	9463DB		1000	305	33.1	15.0	0.96 mm	0.076	1.92	Overall	0.240	6.10	78	66%	19.7	64.6			see above	
Flooded			5000	1524	155.2	70.4	20 AWG			Beldfoil®										
Direct Burial							(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

20 AWG • Stranded (42x36) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 85% Tinned Copper Braid

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 60°C	9463F	NEC:	1000	305	42.1	19.1	0.97 mm	0.075	1.91	Overall	0.243	6.17	78	66%	19.7	64.6			see above	
UL AWM Style 2464		CM CL2	5000	1524	205.2	93.1	20 AWG			Beldfoil®										
		CEC:					(42x36) TC			+ Overall										
		CM								85% TC Braid										



Z-Fold®

High-Flex

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*

TC = Tinned Copper • DCR = DC resistance

† Final put-up length may vary ±10% from length shown.

* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

Industrial Data Solutions® - Industrial Twinax

Blue Hose® 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		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall Beldfoil® + 76% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

Plenum • FEP Insulation • Blue FEP Jacket																						
<p>Z-Fold®</p>	300V 200°C	89463	NEC:	1000	305	34.0	15.4	0.96 mm	0.073	1.85	Overall	0.203	5.16	78	66%	19.7	64.6	1	0.6	2.0		
	High Temperature		CMP CL2P	2500	762	90.2	40.9	20 AWG			Beldfoil®								10	2.1	6.9	
			CEC:					(7x28) TC			+ Overall									50	5.0	16.4
			CMP FT6								76% TC Braid									100	7.5	24.6
											+ Drain Wire									200	11.0	36.1
										(20 AWG TC)									400	16.0	52.5	

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Beldfoil® • 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Blue PVC Inner Jacket • Aluminum Interlocked Armor • Blue Sunlight-Resistant PVC Outer Jacket																					
	300V 60°C	129463	NEC:	1000	305	122.4	55.5	0.96 mm	0.076	1.92	Overall	*0.238	*6.05	78	66%	19.7	64.6			see above	
	Aluminum Armored		CM CL2	6000	1829	925.9	420.0	20 AWG			Beldfoil®	**0.563	**14.30								
			CEC:					(7x28) TC			+ Overall										
			CM								55% TC Braid										
			CMG FT4 HLBCD (Haz Loc)								+ Drain Wire										
										(20 AWG TC)											

* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

Polyethylene Insulation • Blue PVC Inner Jacket • Steel Armor • Blue Sunlight-Resistant PVC Outer Jacket																					
	300V 60°C	139463	NEC:	1000	305	220.5	100.0	0.96 mm	0.076	1.92	Overall	*0.238	*6.05	78	66%	19.7	64.6			see above	
	Steel Armored		CM CL2	6000	1829	1491.2	676.4	20 AWG			Beldfoil®	**0.563	**14.30								
			CEC:					(7x28) TC			+ Overall										
			CM								55% TC Braid										
			CMG FT4 HLBCD (Haz Loc)								+ Drain Wire										
										(20 AWG TC)											

* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

Polyethylene Insulation • Blue PVC Inner Jacket • Continuously Corrugated Aluminum Armor • Blue Sunlight-Resistant PVC Outer Jacket																					
	300V 60°C	189463	NEC:	2000	610	258.2	117.1	0.96 mm	0.076	1.92	Overall	*0.238	*6.05	78	66%	19.7	64.6			see above	
	Continuously Armored		PLTC					20 AWG			Beldfoil®	**0.500	**12.70								
								(7x28) TC			+ Overall										
											55% TC Braid										
											+ Drain Wire										
										(20 AWG TC)											

* Over Armor
** Under Armor

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® – Industrial Twinax

Twinaxial 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		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

20 AWG • Stranded (7x28) 1.0 mm One Tinned, One Bare Copper • Duofoil® • 86% Tinned Copper Braid

Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket

	75°C	9207	NEC:	100	31	7.1	3.2	0.96 mm	0.083	2.11	Overall	0.330	8.38	100	66%	14.5	47.6	1	0.3	1.0	
			CMG CL2	U-500	U-152	34.2	15.5	20 AWG			Duofoil®							10	1.2	3.9	
			CEC:	500	152	34.6	15.7	(7x28) TC + BC			+ Overall								50	2.8	9.2
			CMG FT4	1000	305	68.1	30.9				86% TC Braid								100	4.1	13.5
				1640	500	111.8	50.7												200	6.4	21.0
				2000	610	136.2	61.8												400	10.2	33.5
				3280	1000	220.2	99.9														
			5000	1524	350.8	159.1															

Color Code: Clear, Clear

IBM P/N 7362211

CPE jacket optional

Polyethylene Insulation • Black FRNC/LSNH Jacket

	80°C	9207NH	IEC 332	1000	305	44.3	20.1	0.96 mm	0.077	1.96	Overall	0.339	8.60	100	66%	14.5	47.6			see above	
			BS 7655	1640	500	69.9	31.7	20 AWG			Duofoil®										
				3280	1000	143.7	65.2	(7x28) TC + BC			+ Overall										
											86% TC Braid										

Color Code: Clear, Clear

16 AWG • Solid 1.3 mm Bare Copper • Duofoil® • 90% Tinned Copper Braid

Foam Polyethylene Insulation • Black PVC Jacket

	30V 60°C	9860	NEC:	500	152	52.0	23.6	1.29 mm	0.161	4.09	Overall	0.440	11.18	124	78%	10.9	35.8	1	0.2	0.6		
	UL AWM Style 2448		CMX	1000	305	103.2	46.8	16 AWG			Duofoil®								10	0.7	2.3	
			CEC:	2000	610	202.4	91.8	Solid BC			+ Overall									50	1.8	5.9
			CMX								90% TC Braid									100	2.9	9.5
																				200	4.1	13.5
																				400	6.2	20.3

Color Code: Clear, Blue

CPE jacket optional

Foam Polyethylene Insulation • Black FRNC/LSNH Jacket

	80°C	9860NH	IEC 332	1640	500	183.0	83.0	1.29 mm	0.161	4.09	Overall	0.441	11.20	124	78%	10.9	35.8			see above	
			BS 7655	3280	1000	354.9	161.0	16 AWG			Duofoil®										
								Solid BC			+ Overall										
											90% TC Braid										

Color Code: Clear, Blue

Foam Polyethylene Insulation • FRNC/LSNH Chrome Inner Jacket • Steel Wire Armor • Black FRNC/LSNH Outer Jacket

	80°C	9860LS	IEC	1640	500	581.8	263.8	1.29 mm	0.161	4.09	Overall	*0.441	*11.20	124	78%	10.9	35.8			see above	
			332-3C	3280	1000	1262.6	572.7	16 AWG			Duofoil®	**0.650	**16.50								
			BS 7655					Solid BC			+ Overall										
											90% TC Braid										

Color Code: Clear, Blue

* Under Armor

** Over Armor

TC = Tinned Copper • DCR = DC resistance
Duofoil® see technical information page 23.13.

Industrial Data Solutions® – Industrial Twinax

Twinaxial 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		Nominal Attenuation	
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.

22 AWG • Stranded (19x34) 0.8 mm Tinned Copper • Duofoil® • 22 AWG Tinned Copper Drain Wire**Datalene® Insulation • Black PVC Jacket**

30V 60°C	9182	NEC:	U-500	U-152	22.5	10.2	0.78 mm	0.137	3.49	Overall	0.345	8.76	150	78%	8.8	28.9	1	0.4	1.3
UL AWM Style 2668		CL2X CMX	500	152	22.9	10.4	22 AWG			Duofoil®							10	1.2	3.9
		CEC:	1000	305	44.1	20.0	(19x34) TC			+ Drain Wire							50	2.7	8.9
		CMX								(22 AWG TC)							100	4.3	14.1
																	200	6.2	20.3
																	400	8.8	28.9



VW-1

Color Code: Black, Yellow

Dual version: YR41609
CPE jacket optional.**Datalene® Insulation • Black FRNC/LSNH Jacket**

300V 80°C	9182NH	IEC 332-1	1000	305	50.3	22.8	0.78 mm	0.136	3.45	Overall	0.346	8.80	150	78%	8.8	28.9	1	0.4	1.3
		BS 7655	1640	500	80.0	36.3	22 AWG			Duofoil®							5	0.9	2.8
			3280	1000	150.1	68.1	(19x34) TC			+ Drain Wire							10	1.2	3.9
										(22 AWG TC)							20	1.7	5.6
																	50	2.7	8.9
																	100	4.3	14.1
																	200	6.2	20.3
																	400	8.8	28.9



Color Code: Black, Yellow

Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon® Jacket

	89182	NEC:	100	31	6.4	2.9	0.78 mm	0.139	3.53	Overall	0.307	7.80	150	78%	8.8	28.9	1	0.4	1.3
		CMP	† 500	152	28.0	12.7	22 AWG			Duofoil®							10	1.2	3.9
		CL2P	† 1000	305	53.1	24.1	(19x34) TC			+ Drain Wire							50	2.7	8.9
		CEC:								(22 AWG TC)							100	4.3	14.1
		CMP FT6															200	6.2	20.3
																	400	8.8	28.9



Color Code: Black, Yellow

TC = Tinned Copper • DCR = DC resistance

† Spools are one piece, but length may vary ±10% from length shown.

Duofoil® see technical information page 23.13.

Teflon® is a DuPont trademark.

Industrial Data Solutions® – Industrial Twinax

DataTray® 600V Twinaxial 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		Nominal Attenuation	
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 ft.

18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • Beldfoil® • 55 % Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket

600V 75°C UL Type TC	3072F	NEC:	250	76	17.6	8.0	1.22 mm	0.096	2.44	Overall Beldfoil®	0.324	8.23	78	65%	19.5	64.0	1	0.5	1.7
		CMG, ITC	500	152	35.1	15.9	18 AWG			+ Overall							10	2.0	6.6
		TC, PLTC	1000	305	69.0	31.3	(7x26) TC			55% TC Braid							50	3.8	12.4
		CEC:	2500	762	170.2	77.2				+ Drain Wire							100	5.4	17.6
		CMG FT4	5000	1524	345.2	156.6				(20 AWG TC)							200	7.6	24.8
			10000	3049	710.5	322.3											400	10.7	35.1



Z-Fold®

VW-1

Color Code: Natural, Blue

For CPE jacketed version order Part No. YM45044 P-MSHA-C-7K-1827*

Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket

600V 75°C UL Type TC	3073F	NEC:	250	76	20.9	9.5	1.22 mm	0.123	3.12	Overall Beldfoil®	0.388	9.86	100	65%	15.3	50.2	1	0.4	1.3
		CMG, ITC	1000	305	85.1	38.6	18 AWG			+ Overall							10	1.3	4.4
		TC, PLTC	5000	1524	420.4	190.7	(7x26) TC			55% TC Braid							50	3.0	9.7
		CEC:								+ Drain Wire							100	4.2	13.8
		CMG FT4								(20 AWG TC)							200	5.9	19.5
																	400	7.5	24.7



Z-Fold®

Color Code: Natural, Blue

CPE jacket optional.

Flame-Retardant Polyolefin Insulation • Blue Sunlight-Resistant PVC Jacket

600V 75°C UL Type TC	3074F	NEC:	500	152	62.6	28.4	1.22 mm	0.164	4.17	Overall Beldfoil®	0.460	11.68	124	65%	12.3	40.3	1	0.3	1.1
		CMG, ITC	1000	305	121.0	54.9	18 AWG			+ Overall							10	1.1	3.5
		TC, PLTC	2500	762	300.3	136.2	(7x26) TC			55% TC Braid							50	2.4	7.8
		CEC:								+ Drain Wire							100	3.4	11.1
		CMG FT4								(20 AWG TC)							200	4.8	15.7
																	400	6.8	22.2



Z-Fold®

Color Code: Natural, Blue

CPE jacket optional.

TC = Tinned Copper • DCR = DC resistance

* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

AES/EBU Digital Audio Cables

Single- and Double-Pair Cables

Audio-Connect



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.

26 AWG • Stranded (7x34) 0.5 mm Tinned Copper • Twisted Pair • Beldfoil® • 26 AWG Tinned Copper Drain Wire

Datalene® Insulation • PVC Jacket (Chrome or Violet)																			
300V RMS 75°C	9180	NEC: CMG CEC: CMG FT4	1000	305	10.0	4.5	0.48 mm 26 AWG (7x34) TC	0.049	1.24	Overall Beldfoil® + Drain Wire (26 AWG TC)	0.144	3.66	110	76%	13.0	42.6	2.0	1.7	5.5
																	4.1	2.1	7.0
																	5.6	2.4	7.9
																	11.3	3.1	10.1
																	12.3	3.2	10.4
																	24.6	4.2	13.8



Shorting Fold

0.14 mm²
Digital Video Time Code

Color Code: Black, White
Pulling Tension: 46 N

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire

Datalene® Insulation • PVC Jacket (Grey or Violet)																							
300V RMS 60°C	1800B	NEC: CMG CEC: CMG FT4	500	152	8.0	3.6	0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.177	4.50	110	76%	12.0	39.3	2.0	1.3	4.3				
																	U-1000	U-305	17.0	7.7	4.1	1.6	5.2
																	1000	305	16.0	7.3	5.6	1.8	5.8
																	5000	1524	90.0	40.8	11.3	2.2	7.3
																					12.3	2.3	7.5
																					24.6	3.1	10.1



0.22 mm²

152 m put-up available in Grey only.
1524 m put-up available in Violet only.
Color Code: Red, Black

The jacket and shield are bonded so both can be removed with automatic stripping equipment.
Pulling Tension: 73 N

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Dual Twisted Pairs • Individual Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire

Datalene® Insulation • PVC Jacket (Grey or Violet)																									
300V RMS 60°C	1802B	NEC: CMG CEC: CMG FT4	500	152	16.5	7.5	0.61 mm 24 AWG (7x32) TC	0.068	1.73	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.180	4.57	110	76%	12.0	39.3	2.0	1.3	4.3						
																	U-1000	U-305	35.0	15.9	x	x	4.1	1.6	5.2
																	1000	305	37.0	16.8	0.360	9.14	5.6	1.8	5.8
																							11.3	2.2	7.3
																							12.3	2.3	7.5
																							24.6	3.1	10.1



0.22 mm²

Color Code: Red, Black

The jacket and shield are bonded so both can be removed with automatic stripping equipment.
Pulling Tension: 73 N

24 AWG • Stranded (41x40) 0.6 mm High-Conductivity (Oxygen-Free) Bare Copper • Twisted Pair with Fillers • Conductors Cabled with Fillers • 95% Tinned Copper French Braid® • 26 AWG Bare Copper Drain Wire

Datalene® Insulation • Matte PVC Jacket (Red, Yellow, Green, Blue, Grey and Black)																									
300V RMS 60°C	1800F	NEC: CL2R	500	152	12.0	5.4	0.58 mm 24 AWG (41x40) BC	0.058	1.47	Overall French Braid® 95% TC + Drain Wire (26 AWG BC)	0.211	5.36	110	76%	12.0	39.3	2.0	1.3	4.3						
																	U-1000	U-305	26.0	11.8			4.1	2.2	7.3
																	1000	305	24.0	10.9			5.6	2.9	9.5
																							11.3	4.5	14.9
																							12.3	4.8	15.7
																							24.6	7.1	23.3



French Braid

0.22 mm²

152 m and 305 m put-ups available in Black only.
Color Code: Red, Black

Pulling Tension: 184 N

22 AWG • Stranded (7x30) 0.8 mm TC • Twisted Pair with Fillers • Overall Beldfoil® Shield (Unbonded) • 90% TC French Braid® • 24 AWG Tinned Copper Drain Wire

Datalene® Insulation • Black High-Flex Matte PVC Jacket																									
300V RMS 60°C	1696A		250	76	8.0	3.6	0.76 mm 22 AWG (7x30) TC	0.082	2.08	Overall French Braid® 90% TC + Drain Wire (24 AWG TC)	0.234	5.94	110	76%	13.0	42.6	2.0	0.9	2.9						
																	U-1000	U-305	30.0	13.6			4.1	1.1	3.6
																	1000	305	32.0	14.5			5.6	1.3	4.3
																							11.3	1.7	5.7
																							12.3	1.8	5.8
																							24.6	2.4	7.9



Z-Fold®

0.34 mm²

Color Code: Light Blue, White
Pulling Tension: 249 N

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance