

Industrial Data Solutions® — Industrial Data

DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials 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/ 100m

FOUNDATION Fieldbus/PROFIBUS PA • 18 AWG Stranded (7x26) TC Conductors • Beldfoil® Shield (100% Coverage) • TC Drain Wire**Polyolefin Insulation • Orange or Blue PVC Jacket** (Color Code: Blue, Orange)

Type A	3076F	NEC:	250	76.2	10.5	4.8	(2) 18 AWG	.088	2.24	100%	.253	6.43	100 @	66%	24.0	78.7	.039	.08	.26
300V 105°C (31.25 KBits/sec)		PLTC CM	500	152.4	18.5	8.4	(7x26)			Beldfoil				31.25 KHz					
		ITC	1000	304.8	37.0	16.8	.048"			Shield									
		CEC:	2500	762.0	85.0	38.6	Tinned			7.5Ω/M'									
		CM	5000†	1524.0	170.0	77.2	Copper			24.6Ω/km									
							7.5Ω/M'												
							24.6Ω/km												



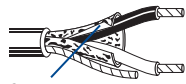
Shorting Fold

123076F — Version with Aluminum Interlocked Armor
 133076F — Version with Steel Interlocked Armor
 YM47023 — CPE jacketed version
 YM46698 — Black & White color-coded pairs
 YM47090 — Various colored jackets
 YM41725 — LSZH (FRNC) jacketed version

Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Blue available as standard in 1000 ft. put-up only.

FOUNDATION Fieldbus • 22 AWG Stranded (7x30) TC Conductors • Beldfoil Shield (100% Coverage) • Tinned Copper Drain Wire**Polyolefin Insulation • Orange PVC Jacket** (Color Code: Blue, Orange)

Type B	3077F	NEC:	500†	152.4	11.0	5.0	(2) 22 AWG	.059	1.50	100%	.196	4.97	100 @	66%	23.5	77.1	.039	.14	.45
300V 105°C (31.25 KBits/sec)		PLTC CM	1000†	304.8	23.0	10.4	(7x30)			Beldfoil				31.25 KHz					
		ITC					.030"			Shield									
		CEC:					Tinned			11.4Ω/M'									
		CM					Copper			37.4Ω/km									
							17.1Ω/M'												
							56.0Ω/km												



Shorting Fold

123077F — Version with Aluminum Interlocked Armor
 133077F — Version with Steel Interlocked Armor
 CPE and LSZH jacketed versions also available.

FHDPE Insulation • Orange PVC Jacket (Color Code: Blue, Orange)

High Speed▲	3078F	NEC:	250	76.2	10.0	4.5	(2) 22 AWG	.121	3.07	100%	.351	8.92	150 @	78%	8.5	27.9	.250	.18	.59
300V 75°C (1.0 & 2.5 MBits/sec)		PLTC CM	500	152.4	23.0	10.4	(7x30)			Beldfoil				1 MHz			.625	.26	.85
		ITC					.030"			Shield							1.250	.34	1.12
		CEC:	1000	304.8	44.0	20.0	.030"			3.3Ω/M'							3.125	.55	1.81
		CM	2500	762.0	115.0	52.2	Tinned			11.1Ω/km									
							Copper												
							17.1Ω/M'												
							56.1Ω/km												



Shorting Fold

123078F — Version with Aluminum Interlocked Armor
 133078F — Version with Steel Interlocked Armor
 CPE and LSZH jacketed versions also available.

PROFIBUS DP • 22 AWG Solid Bare Copper Conductors • Beldfoil (100% Coverage) + Tinned Copper Braid Shield (65% Coverage)**FHDPE Insulation • Chrome or Purple PVC Jacket** (Color Code: Red, Green)

300V 75°C	3079A	NEC:	1000	304.8	56.0	25.4	(2) 22 AWG	.099	2.52	Beldfoil	.315	8.00	150	78%	8.5	27.9	.2	.27	.9
		PLTC CMG	2000	609.6	112.0	50.8	(solid)			+ 65%							4.0	.67	2.2
		CEC:	3600	1097.6	201.6	91.4	.026"			TC Braid							16.0	1.37	4.5
		CMG FT4					Bare			Shield							100.0	3.75	12.3
							Copper			(100%							300.0	6.52	21.4
							16.0Ω/M'			Coverage)									
							52.5Ω/km			3.9Ω/M'									
										12.8Ω/km									

UL AWM 20201 (600V)
Siemens Sinec L2 cable.

123079A — Aluminum Interlocked Armor
 133079A — Steel Interlocked Armor
 YR45047 — CPE jacketed version
 YR44731 — LSZH (FRNC) jacketed version

PROFIBUS DP • 22 AWG Stranded (7x30) Bare Copper Conductors • Beldfoil (100% Coverage) + TC Braid Shield (65% Coverage)**FR-FPE Insulation • Purple PVC Jacket** (Color Code: Red, Green)

300V 75°C	3079E	NEC:	1000	304.8	44.0	20.0	(2) 22 AWG	.099	2.52	Beldfoil	.315	8.00	150	78%	8.5	27.9	.2	.34	1.1
		PLTC CMG	1640	500.0	73.8	33.5	Stranded			+ 65%							4.0	.81	2.7
		CEC:	3280	1000.0	144.3	65.5	(7x30)			TC Braid							16.0	1.64	5.4
		CMG FT4					Bare			Shield									
							Copper			(100%									
							16.0Ω/M'			Coverage)									
							52.5Ω/km			3.9Ω/M'									
										12.8Ω/km									

DCR = DC Resistance • FHDPE = Foamed High-Density Polyethylene • FR-FPE = Flame-Retardant Polyethylene • FRNC = Flame-Retardant Non-Corrosive • LSZH = Low-Smoke Zero-Halogen • TC = Tinned Copper
†Final put-up length may vary -0 to +10% from length shown.

▲For HSE, see Industrial Ethernet Section for copper and fiber cables.