## **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

## 1800F Multi-Conductor - Single-Pair Cable



For more Information please call

1-800-Belden1



### **General Description:**

24 AWG stranded (42x40) HC BC conductors, Datalene® insulation, conductors cabled with fillers, TC "French Braid" Shield (95% coverage), BC drain wire, PVC jacket.

Physical Characteristics (Overall)	· •
Conductor	
AWG:	
# Pairs         AWG         Stranding         Conductor         Material         Dia. (in.)           1         24         42x40         BC - Bare Copper         .024	
Total Number of Conductors:	2
Insulation	2
Insulation Material:	
Insulation Trade Name         Insulation Material           Datalene®         FHDPE - Foam High Density Polyethy	Dia. (in.)           /lene         .058
Outer Shield Outer Shield Material:	
Type         Outer Shield Material         Coverage (%)           French Braid         TC - Tinned Copper         95	
Outer Shield Drain Wire AWG:	
AWG         Stranding         Drain         Wire         Conductor         Material           26         Stranded         BC - Bare         Copper	
Outer Jacket Outer Jacket Material:	
Outer Jacket Material PVC - Polyvinyl Chloride	
Overall Cable	
Overall Nominal Diameter:	0.211 in.
Pair Pair Color Code Chart: Number Color 1 Red & Black	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +60°C
Non-UL Temperature Rating:	0°06
Bulk Cable Weight:	24 lbs/1000 ft.
Max. Recommended Pulling Tension:	41.500 lbs.
Min. Bend Radius/Minor Axis:	2.250 in.
Applicable Specifications and Agency Compliance	ce (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CL2R
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

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	C   fau Mina 9 Cable)		
MIL 0 1	5 (CJ for Wire & Cable):	Yes	
MII Order #	f39 (China RoHS):	Yes	
Other Spec	cification:	AES/EBU Digital Audio	
lame Test			
UL Flame 1	Test:	UL1666 Riser	
Plenum/Non-I	Plenum		
Plenum (Y/		No	
	aracteristics (Ove	rall)	
	istic Impedance:		
Impedance (	Ohm)		
110			
Nom. Inductanc			
Inductance (	μμ/π)		
	ce Conductor to Condu	ctor:	
Capacitance	(p=/it)		
	ce Cond. to Other Cond	uctor & Shield:	
Capacitance 26	(ρ-/π)		
	ty of Propagation:		
VP (%)			
76			
	r DC Resistance:		
DCR @ 20°C	(Ohm/1000 ft)		
23.7			
1			
	Shield DC Resistance:		
Nominal Outer S	Shield DC Resistance: (Ohm/1000 ft)		
Nominal Outer S	Shield DC Resistance: (Ohm/1000 ft)		
Nominal Outer S DCR @ 20°C 6.42	: (Ohm/1000 ft)		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation	: (Ohm/1000 ft) pn:	1	
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz)	: (Ohm/1000 ft)		
Nominal Outer 5 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384	(Ohm/1000 ft) on: Attenuation (dB/100 ft.)		
Nominal Outer 5 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706	(Ohm/1000 ft) on: Attenuation (dB/100 ft.) 0.260		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768	(Ohm/1000 ft) on: Attenuation (dB/100 ft.) 0.260 0.480		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024	(Ohm/1000 ft) on: Attenuation (dB/100 ft.) 0.260 0.480 0.530		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536	(Ohm/1000 ft) Dn: Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.890 0.950		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048	(Ohm/1000 ft) Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.890 0.950 1.200		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822	(Ohm/1000 ft) 		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072	(Ohm/1000 ft) Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.890 0.950 1.200 1.500 1.600		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096	(Ohm/1000 ft) 		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation 6.42 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645	(Ohm/1000 ft) 		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144	(Ohm/1000 ft) 		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192	(Ohm/1000 ft) Den: Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.890 0.950 1.200 1.200 1.500 1.200 1.500 2.100 2.800 3.000 3.600		
Nominal Outer 3 DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290	(Ohm/1000 ft) 		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288	(Ohm/1000 ft) 		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576	(Ohm/1000 ft) 		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating	(Ohm/1000 ft) 		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MH2) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating Voltage	(Ohm/1000 ft) 		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuatic Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating Voltage 300 V RMS	(Ohm/1000 ft) Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.950 1.200 1.200 1.200 1.200 2.100 2.100 2.800 3.000 3.600 4.500 4.500 Voltage - UL:		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuatic Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating Voltage 300 V RMS Max. Recomment	(Ohm/1000 ft) Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.950 1.200 1.200 1.200 1.200 2.100 2.100 2.800 3.000 3.600 4.500 4.500 Voltage - UL:		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating Voltage 300 V RMS Max. Recomment	(Ohm/1000 ft) Dn: Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.950 1.200 1.200 1.500 1.200 2.100 2.100 2.800 3.000 3.600 4.500 4.500 Voltage - UL: Inded Current:		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating Voltage 300 V RMS Max. Recomment	(Ohm/1000 ft) Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.950 1.200 1.200 1.200 1.200 2.100 2.100 2.800 3.000 3.600 4.500 4.500 Voltage - UL:		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuation Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating Voltage 300 V RMS Max. Recomment 2.75 Amps period	(Ohm/1000 ft) 		
Nominal Outer S DCR @ 20°C 6.42 Nom. Attenuatic Freq. (MHz) 0.384 0.706 0.768 1.024 1.411 1.536 2.048 2.822 3.072 4.096 5.645 6.144 8.192 11.290 12.288 24.576 Max. Operating Voltage 300 V RMS Valtage Current 2.75 Amps period	(Ohm/1000 ft) Den: Attenuation (dB/100 ft.) 0.260 0.480 0.530 0.680 0.890 0.950 1.200 1.200 1.200 1.200 1.200 1.200 1.500 1.200 1.500 1.500 1.500 2.100 2.800 3.000 3.600 4.500 4.500 4.500 Voltage - UL: er conductor @ 25°C	s include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical pro	

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1800F B59U1000	1,000 FT	25.000 LB	BLACK, MATTE		#24 PR FHDPE BRD PVC

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1800F B591000	1,000 FT	25.000 LB	BLACK, MATTE	С	#24 PR FHDPE BRD PVC
1800F B59500	500 FT	13.000 LB	BLACK, MATTE	С	#24 PR FHDPE BRD PVC
1800F G7VU1000	1,000 FT	25.000 LB	RED, MATTE		#24 PR FHDPE BRD PVC
1800F G7WU1000	1,000 FT	25.000 LB	GREEN, MATTE		#24 PR FHDPE BRD PVC
1800F G7XU1000	1,000 FT	25.000 LB	BLUE, MATTE		#24 PR FHDPE BRD PVC
1800F G8MU1000	1,000 FT	25.000 LB	YELLOW, MATTE		#24 PR FHDPE BRD PVC
1800F U90U1000	1,000 FT	25.000 LB	GRAY, MATTE		#24 PR FHDPE BRD PVC
1800F Z4BU1000	1,000 FT	25.000 LB	VIO Z4B		#24 PR FHDPE BRD PVC

Notes:

C = CRATE REEL PUT-UP.

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