



## Description:

22 AWG stranded (19x34) tinned copper conductors, foam FEP Teflon® insulation, Duofoil® (100% coverage) plus a stranded tinned copper drain wire, FEP Teflon jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	19x34	TC - Tinned Copper	.031

### Insulation

#### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	.278

### Outer Shield

#### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

#### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
22	19x34	TC - Tinned Copper	

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Teflon®	FEP - Fluorinated Ethylene Propylene

## Overall Cabling

Overall Nominal Diameter: 0.307 in.

## Pair

### Pair Color Code Chart:

Number	Color
1	Black & Yellow

### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)	Direction
3.000	4.000	Left Hand Lay

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	48.700 lbs/1000 ft.
Max. Recommended Pulling Tension:	28 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

CEC/C(UL) Specification: CMP

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9182

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

150

#### Nom. Inductance:

Inductance (µH/ft)

0.29

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

8.8

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

16.5

#### Nominal Velocity of Propagation:

VP (%)

78

#### Nominal Delay:

Delay (ns/ft)

1.3

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.0

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.3

#### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.4
10	1.2
50	2.7
100	4.3
200	6.2
400	8.8

#### Max. Operating Voltage - UL:

Voltage

300 V RMS (CMP)

150 V RMS (CL2P)

## Notes (Overall)

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. Other  
Maximum Continuous Currents: 2.9 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89182 010100	100 FT	6.400 LB	BLACK	C	2 #22 FFEP FS FEP
89182 0101000	1,000 FT	49.000 LB	BLACK	C	2 #22 FFEP FS FEP
89182 010500	500 FT	28.000 LB	BLACK	C	2 #22 FFEP FS FEP

**Notes:**  
C = CRATE REEL PUT-UP.

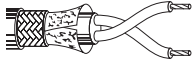
# Computer and Instrumentation Cable

100 Ohm, 124 Ohm and 150 Ohm Twinax

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

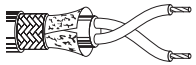
**100 Ohm • 20 AWG** Stranded (7x28) .037" One TC/One BC Conductor • Duofoil® (100% Coverage) + TC Braid Shield (86% Coverage)

**Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket**

	<b>9207</b> NEC: CM CL2 CEC: CMG FT4	100	30.5	7.1	3.2	20 AWG	.236	5.99	Duofoil	.330	8.38	100	66%	14.5	47.6	1	.3	1.0	
		U-500	U-152.4	33.0	15.0	(7x28)		+86%									10	1.2	3.9
		500	152.4	34.5	15.7	.037"		TC Braid									50	2.8	9.2
		1000	304.8	68.0	30.9	(1) TC,		1.7Ω/M'									100	4.1	13.5
		1640	500.0	111.5	50.7	(1) BC		5.7Ω/km									200	6.4	21.0
		2000	609.6	136.0	61.8	9.5Ω/M'											400	10.2	33.5
		3280	1000.0	219.8	99.9	31.0Ω/km													
IBM P/N 7362211	5000	1524.0	350.0	159.1															


**100 Ohm • 20 AWG** Stranded (7x28) .037" One TC/One BC Conductor • Duofoil (100% Coverage) + TC Braid Shield (85% Coverage)

**Plenum • FEP Insulation • Black FEP Jacket**

	<b>89207</b> NEC: CMP CEC: CMP FT6	100	30.5	6.7	3.0	20 AWG	.201	5.11	Duofoil	.259	6.58	100	69.5%	14.0	46.0	1	.3	1.0	
		U-500	U-152.4	26.0	11.8	(7x28)		+85%									10	1.2	3.9
		500	152.4	26.0	11.8	.037"		TC Braid									50	2.8	9.2
		1000	304.8	55.0	25.0	(1) TC, (1) BC		2.5Ω/M'									100	4.1	13.5
						9.5Ω/M'		8.2Ω/km									200	6.4	21.0
				31.2Ω/km											300	8.4	27.6		
															400	10.2	33.5		


**124 Ohm • 25 AWG** Stranded (7x33) .021" Tinned Copper Conductors • Beldfoil® Shield (100% Coverage) • Stranded TC Drain Wire

**Polyethylene Insulation • Blue PVC Jacket (Color Code: Clear, Blue)**

	<b>9271</b> UL AWM Style 2092 (300V 60°C) VW-1	100	30.5	3.2	1.5	25 AWG	.170	4.32	Beldfoil	.240	6.10	124	66%	12.2	40.0	1	.6	2.0	
		U-500	U-152.4	12.5	5.7	(7x33)		12.0Ω/M'									10	1.7	5.6
		500	152.4	12.5	5.7	.021"		39.4Ω/km									50	3.6	11.8
		1000	304.8	27.0	12.3	TC											100	5.0	16.4
						31.8Ω/M'											200	6.9	22.6
				104.3Ω/km											400	9.6	31.5		


**124 Ohm • 16 AWG** Solid .051" Bare Copper Conductors • Duofoil (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

**Foam Polyethylene Insulation • Black PVC Jacket (Color Code: Clear, Blue)**


	<b>9860</b> UL AWM Style 2448 (30V 60°C) VW-1	500	152.4	52.0	23.6	16 AWG	.322	8.18	Duofoil	.440	11.18	124	78%	10.9	35.8	1	.2	.6	
		1000	304.8	103.0	46.8	(solid)		+90%									10	.7	2.3
		2000	609.6	202.0	91.8	.051"		TC Braid									50	1.8	5.9
						BC		1.3Ω/M'									100	2.9	9.5
						4.2Ω/M'		4.3Ω/km									200	4.1	13.5
				13.8Ω/km											400	6.2	20.3		

**150 Ohm • 22 AWG** Stranded (19x34) .031" Tinned Copper Conductors • Duofoil Shield (100% Coverage) • Stranded TC Drain Wire

**Datalene® Insulation • Black PVC Jacket (Color Code: Black, Yellow)**

	<b>9182</b> UL AWM Style 2668 (30V 60°C) VW-1	U-500	U-152.4	21.5	9.8	22 AWG	.275	6.98	Duofoil	.345	8.76	150	78%	8.8	28.9	1	.4	1.3	
		500	152.4	23.0	10.4	(19x34)		6.3Ω/M'									10	1.2	3.9
		1000	304.8	44.0	20.0	.031"		20.7Ω/km									50	2.7	8.7
						TC											100	4.3	14.1
						14.0Ω/M'											200	6.2	20.3
				45.9Ω/km											400	8.8	28.9		

**Plenum • Foam FEP Teflon Insulation • Black FEP Teflon Jacket (Color Code: Black, Yellow)**

	<b>89182</b> NEC: CMP CL2P CEC: CMP FT6	100	30.5	6.4	2.9	22 AWG	.278	7.06	Duofoil	.307	7.80	150	78%	8.8	28.9	1	.4	1.3	
		U-500	U-152.4	28.0	12.7	(19x34)		6.3Ω/M'									10	1.2	3.9
		1000	304.8	53.0	24.1	.031"		20.7Ω/km									50	2.7	8.7
						TC											100	4.3	14.1
						14.0Ω/M'											200	6.2	20.3
				45.9Ω/km											400	8.8	28.9		

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

Teflon is a DuPont trademark.