



## Description:

25 AWG stranded (7x33) tinned copper conductors, polyethylene insulation, Beldfoil® shield (100% coverage), stranded tinned copper drain wire, PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	25	7x33	TC - Tinned Copper	.021

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.083

### Outer Shield

#### Outer Shield Material:

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

#### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

## Overall Cabling

Overall Nominal Diameter: 0.240 in.

## Pair

#### Pair Color Code Chart:

Number	Color
1	Blue & Clear

## Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 2092)

Bulk Cable Weight: 25 lbs/1000 ft.

Max. Recommended Pulling Tension: 17 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

AWM Specification:	UL Style 2092 (300 V 60°C)
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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 UL Loading
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

124

### Nom. Inductance:

Inductance (µH/ft)

0.188

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12.2

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

Capacitance (pF/ft)

22.0

### Nominal Velocity of Propagation:

VP (%)

66

### Nominal Delay:

Delay (ns/ft)

1.54

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

31.8

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

12

### Nom. Attenuation:

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

1	0.6
10	1.7
50	3.6
100	5.0
200	6.9
400	9.6

### Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2092)

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9271 006U1000	1,000 FT	27.000 LB	BLUE, LIGHT		TW PR FS PVC
9271 006100	100 FT	3.200 LB	BLUE, LIGHT		TW PR FS PVC
9271 0061000	1,000 FT	28.000 LB	BLUE, LIGHT	C	TW PR FS PVC
9271 006500	500 FT	12.500 LB	BLUE, LIGHT	C	TW PR FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

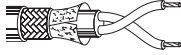
# Industrial Data Solutions® — Industrial Twinax

## Twinaxial 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

**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**

75°C	<b>9207</b>	NEC:	100	30.5	7.1	3.2	20 AWG	.236	5.99	Duofoil + 86%	.330	8.38	100	66%	14.5	47.6	1	.3	1.0
		CMG CL2	U-500	U-152.4	34.0	15.5	(7x28)			TC Braid							10	1.2	3.9
		CEC:	500	152.4	34.5	15.7	.037"			2.5Ω/M'							50	2.8	9.2
		CMG FT4	1000	304.8	68.0	30.9	1 TC			8.2Ω/km							100	4.1	13.5
			1640	500.0	111.5	50.7	1 BC										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												
			5000	1524.0	350.0	159.1													

IBM P/N 7362211

For Plenum version of 9207, see 89207.  
CPE jacket optional.

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


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

UL AWM	<b>9271</b>	NEC:	100	30.5	3.2	1.5	25 AWG	.170	4.32	100%	.240	6.10	124	66%	12.2	40.0	1	.6	2.0
Style 2092		CM	500	152.4	14.0	6.4	(7x33)			Beldfoil							10	1.7	5.6
(300V 60°C)		CEC:	U-1000	U-304.8	27.0	12.3	.021"			Shield							50	3.6	11.8
		CM	1000	304.8	28.0	12.7	Tinned			12.0Ω/M'							100	5.0	16.4
							Copper			39.4Ω/km							200	6.9	22.6
Shorting Fold							31.8Ω/M'										400	9.6	31.5
							104.3Ω/km												

CPE jacket optional.

**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)**

UL AWM	<b>9860</b>	NEC:	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
Style 2448		CMX	1000	304.8	103.0	46.8	(solid)			+90%							10	.7	2.3
(30V 60°C)		CEC:	2000	609.6	202.0	91.8	.051"			TC Braid							50	1.8	5.9
		CMX					Bare			1.3Ω/M'							100	2.9	9.5
							Copper			4.3Ω/km							200	4.1	13.5
							4.2Ω/M'										400	6.2	20.3
							13.8Ω/km												

CPE jacket optional.


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

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

UL AWM	<b>9182</b>	NEC:	U-500	U-152.4	22.5	10.2	22 AWG	.275	6.98	100%	.345	8.76	150	78%	8.8	28.9	1	.4	1.3
Style 2668		CL2X CMX	500	152.4	23.0	10.4	(19x34)			Duofoil							10	1.2	3.9
(30V 60°C)		CEC:	1000	304.8	44.0	20.0	.031"			Shield							50	2.7	8.9
VW-1		CMX					Tinned			6.3Ω/M'							100	4.3	14.1
							Copper			20.7Ω/km							200	6.2	20.3
							14.0Ω/M'										400	8.8	28.9
							45.9Ω/km												

For Plenum version of 9182, see 89182.  
Dual version: YR41609  
CPE jacket optional.

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

	<b>89182</b>	NEC:	100	30.5	6.4	2.9	22 AWG	.278	7.06	100%	.307	7.80	150	78%	8.8	28.9	1	.4	1.3
		CMP	500†	152.4	28.0	12.7	(19x34)			Duofoil							10	1.2	3.9
		CL2P	1000†	304.8	53.0	24.1	.031"			Shield							50	2.7	8.9
		CEC:					Tinned			6.3Ω/M'							100	4.3	14.1
		CMP FT6					Copper			20.7Ω/km							200	6.2	20.3
							14.0Ω/M'										400	8.8	28.9
							45.9Ω/km												

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

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

Teflon is a DuPont trademark.