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1-800-Belden1



## General 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

Total Number of Conductors: 2

### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	0.031

### 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	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.035

### Overall Cable

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/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 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
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL 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	Description
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	14.000 LB	BLUE, LIGHT	C	TW PR FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

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## **9271 Twinax - Twinaxial Cable**

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