

## 89182 Twinax - Twinaxial Cable

For more Information  
please call

1-800-Belden1

**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 Cable**

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        |
| MIL 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

**Related Documents:**

No related documents are available for this product

**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 | 53.000 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.

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