Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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® | Таре | 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:



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

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| EU Directive 2000/53/ | EC (ELV): | Yes |
|-----------------------|----------------------|------------|
| EU Directive 2002/95/ | EC (RoHS): | Yes |
| EU RoHS Compliance | e 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 W | /ire & 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)

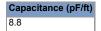
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

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DCR @ 20°C (Ohm/1000 ft)
6.3
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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:



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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 MaximumContinuous Currrents: 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 | С | 2 #22 FFEP FS FEP |
| 89182 0101000 | 1,000 FT | 53.000 LB | BLACK | С | 2 #22 FFEP FS FEP |
| 89182 010500 | 500 FT | 28.000 LB | BLACK | С | 2 #22 FFEP FS FEP |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-17-2008

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