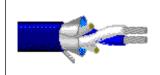


9271 Twinax - Twinaxial Cable





For more information please call 1-800-Belden1

See Put-ups and Colors

Description:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| Number of Pairs | 1 |
|----------------------------|--------------------|
| Total Number of Conductors | 2 |
| AWG | 25 |
| Stranding | 7x33 |
| Conductor Diameter | .021 in. |
| Conductor Material | TC - Tinned Copper |

INSULATION:

| Insulation Material | PE - Polyethylene |
|---------------------|-------------------|
| Insulation Diameter | .083 in. |

PAIR:

| Pair Diameter | .170 in. |
|------------------------|----------|
| Pair Color Code Chart: | |

| Number | Color |
|--------|--------------|
| 1 | Blue & Clear |

OUTER SHIELD:

| Outer Shield Trade Name | Beldfoil® |
|-----------------------------------|------------------------------|
| Outer Shield Type | Tape |
| Outer Shield Material | Aluminum Foil-Polyester Tape |
| Outer Shield %Coverage | 100 % |
| OUTER SHIELD DRAIN WIRE: | |
| Outer Shield Drain Wire AWG | 22 |
| Outer Shield Drain Wire Stranding | 7x30 |

OUTER JACKET:

Outer Shield Drain Wire Conductor Material

| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|
| | |

TC - Tinned Copper



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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .240 in.

MECHANICAL CHARACTERISTICS:

| 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) | 2.5 in. |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| NEC/(UL) Specification | CM |
|---------------------------------------|----------------------------|
| CEC/C(UL) Specification | CM |
| AWM Specification | UL Style 2092 (300 V 60°C) |
| EU CE Mark (Y/N) | Yes |
| EU RoHS Compliant (Y/N) | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |

FLAME TEST:

UL Flame Test UL1685 UL Loading

PLENUM/NON-PLENUM:

Plenum (Y/N)

ELECTRICAL CHARACTERISTICS:

| Nom. Characteristic Impedance | 124 Ohms |
|---|-------------------|
| Nom. Inductance | $0.188~\mu H/ft$ |
| Nom. Capacitance Conductor to Conductor @ 1 KHz | 12.2 pF/ft |
| Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz | 22.0 pF/ft |
| Nominal Velocity of Propagation | 66 % |
| Nominal Delay | 1.54 ns/ft |
| Nom. Conductor DC Resistance @ 20 Deg. C | 31.8 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance | 12 Ohms/1000 ft |
| | |

Nom. Attenuation:

| TOTAL TANGENGUICA | | | | |
|-------------------|-----------------|-----------------------|----------------------|-------------------------------|
| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Attenuation (dB/100 ft.) |
| | 1 | | | 0.6 |
| | 10 | | | 1.7 |
| | 50 | | | 3.6 |
| | 100 | | | 5.0 |
| | 200 | | | 6.9 |
| | 400 | | | 9.6 |

Detailed Specifications & Technical Data



9271 Twinax - Twinaxial Cable

Max. Operating Voltage - UL 300 V RMS (UL AWM Style 2092)

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|---------------|--------------|--------------|--------------------|--------------|-------|
| 9271 006100 | TW PR FS PVC | 100 | 2.5 | BLUE, LIGHT | |
| 9271 0061000 | TW PR FS PVC | 1000 | 28 | BLUE, LIGHT | С |
| 9271 006500 | TW PR FS PVC | 500 | 12.5 | BLUE, LIGHT | С |
| 9271 006U1000 | TW PR FS PVC | U1000 | 27 | BLUE, LIGHT | |

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-09-2005

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