

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

9463F Twinax - Blue Hose® Cable



For more Information
please call

1-800-Belden1



General Description:

20 AWG stranded (42x36) tinned copper conductors, polyethylene insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (85% coverage), sunlight-resistant PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 1 | 20 | 42x36 | TC - Tinned Copper | 0.9652 |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material |
|---------------------|
| PE - Polyethylene |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 85 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 6.172 mm

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2464)

Bulk Cable Weight: 50.599 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius/Minor Axis: 63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM, CL2

CEC/C(UL) Specification: CM

AWM Specification: UL Style 2464 (300 V 80°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

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| | |
|---|---------------------------|
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| PMSHA Specification: | P-7K-SC-182141 |
| Customer Part Number Reference Specification: | Allen Bradley P/N 1770-CD |

Flame Test

| | |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

Suitability

| | |
|----------------------|-----|
| Sunlight Resistance: | Yes |
|----------------------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 78 |

Nom. Inductance:

| |
|-------------------|
| Inductance (μH/m) |
| 0.39372 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 64.6357 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 66 |

Nominal Delay:

| |
|--------------|
| Delay (ns/m) |
| 5.05274 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 31.1695 |

Nominal Outer Shield DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 16.405 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 1.9686 |
| 10 | 6.8901 |
| 50 | 16.405 |
| 100 | 24.6075 |
| 200 | 36.091 |
| 400 | 52.496 |

Max. Operating Voltage - UL:

| |
|-------------------------------|
| Voltage |
| 300 V RMS (UL AWM Style 2464) |

Other Electrical Characteristic 1:

DC Resistance Unbalanced: .77 Ohms/1000 ft Max

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------------|-------|----------------------|
| 9463F J221000 | 1,000 FT | 42.000 LB | BLUE, STRONG | C | #20 PE SH PVC TWINAX |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 05-14-2007

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