

1337a Multi-Conductor - DataBus® for FOUNDATION Fieldbus or Profibus PA

For more Information
please call

1-800-Belden1



General Description:

18 AWG stranded (7x26) tinned copper conductors, ground wire, polyolefin insulation, Overall Beldfoil® shield (100% coverage), tinned copper drain wire, oil & sunlight resistant PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 1 | 1 | 18 | 7x26 | TC - Tinned Copper |

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 18

Ground Wire Stranding: 7x26

Ground Wire Conductor Material: TC - Tinned Copper

Ground Wire Insulation Material: PVC - Polyvinyl Chloride

Insulation

Insulation Material:

| Insulation Material |
|-----------------------------------|
| FRPO - Flame Retardant Polyolefin |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100.000 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20 | 7x28 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 9.144 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-----------------------|
| 1 | Blue & Orange |
| 2 | Green/Yellow (Ground) |

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

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| | |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 298.029 N |
| Min. Bend Radius/Minor Axis: | 91.440 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | TC-ER |
| 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): | 11/01/2007 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flame Test

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

Suitability

| | |
|------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Sunlight Resistance: | Yes |
| Oil Resistance: | Yes |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Unaveraged Impedance:

| Freq. (MHz) | Impedance (Ohm) |
|-------------|-----------------|
| 0.313 | 100.000 |

Nom. Inductance:

| Inductance (µH/m) |
|-------------------|
| 0.722 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| Capacitance (pF/m) |
|--------------------|
| 147.645 |

Nom. Mutual Capacitance:

| Capacitance (pF/m) |
|--------------------|
| 78.744 |

Maximum Capacitance Unbalance:

| Capacitance (pF/m) |
|--------------------|
| 3.937 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 19.227 |

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 24.608 Ohm/km

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
|-------------|-----------------------|

METRIC MEASUREMENT VERSION

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| | |
|-------|-------|
| 0.039 | 0.262 |
|-------|-------|

Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 0.039 | 0.299 |

Max. Operating Voltage - UL:

| Voltage |
|-----------|
| 600 V RMS |

Max. Recommended Current:

| Description | Current |
|---------------|----------|
| Per Conductor | 5.2 Amps |

Other Electrical Characteristic 1: Max. Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft

Other Electrical Characteristic 2: 31.25 KBits/sec

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|-----------|-------------|--------|-------|--------------------------------|
| 1337A 00310000 | 10,000 FT | 750.000 LB | ORANGE | | 1 FSPR #18 FRPP+#18 PVC FS PVC |

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