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1-800-Belden1


## General Description:

8 pair, 16 AWG stranded ( $7 \times 24$ ) tinned copper conductos, polyolefin insulation, individual and overall Beldfoil® shield ( $100 \%$ coverage), tinned copper drain wire, oil-resistant PVC jacket.
Physical Characteristics (Overall)
Conductor
AWG:

| \# Pairs | AWG | Stranding | Conductor Material Dia. (mm) |
| :--- | :--- | :--- | :--- |
| 8 | 16 | $7 \times 24$ | TC - Tinned Copper |
| 2.921 |  |  |  |

Total Number of Conductors:
Insulation
Insulation Material:
Insulation Material
PO - Polyolefin
Inner Shield
Inner Shield Material:

| Inner Shield Trade Name Type | Inner Shield Material | Coverage (\%) |  |
| :--- | :--- | :--- | :--- |
| Beldfoil | Tape | Aluminum Foil-Polyester Tape | 100 |

Inner Shield Drain Wire AWG:

| AWG | Stranding | Conductor Material |
| :--- | :--- | :--- |
| 20 | $7 \times 28$ | TC - Tinned Copper |

Outer Shield
Outer Shield Material:

| Outer Shield Trade Name Type | Outer Shield Material | Coverage (\%) |  |
| :--- | :--- | :--- | :--- |
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
| :--- | :--- | :--- |
| 16 | $7 \times 24$ | TC - Tinned Copper |

Outer Jacket
Outer Jacket Material:
Outer Jacket Material
PVC - Polyvinyl Chloride
Outer Jacket Ripcord:
Overall Cable
Overall Nominal Diameter: $\quad 23.114 \mathrm{~mm}$
Pair
Pair Color Code Chart:
Number Color

| 1 | Blue \& Orange Numbered 1 |
| :--- | :--- |
| 2 | Blue \& Orange Numbered 2 |
| 3 | Blue \& Orange Numbered 3 |
| 4 | Blue \& Orange Numbered 4 |
| 5 | Blue \& Orange Numbered 5 |
| 6 | Blue \& Orange Numbered 6 |
| 7 | Blue \& Orange Numbered 7 |
| 8 | Blue \& Orange Numbered 8 |

Pair Lay Length \& Direction: Lay Length (mm) Twists (twist/m)
63.500
16.405

Mechanical Characteristics (Overall)

Electrical Characteristics (Overall)
Unaveraged Impedance:

| Description Freq. (MHz) | Start Freq. (MHz) Stop Freq. (MHz) | Impedance (Ohm) |  |
| :--- | :--- | :--- | :--- |
|  | .03125 |  |  |

Nom. Inductance: Inductance ( $\mu \mathrm{H} / \mathrm{m}$ ) 0.62339

Nom. Capacitance Conductor to Shield: Capacitance ( $\mathrm{pF} / \mathrm{m}$ ) 147.645

Nom. Mutual Capacitance: Capacitance ( $\mathrm{pF} / \mathrm{m}$ ) 78.744

Maximum Capacitance Unbalance: Capacitance ( $\mathrm{pF} / \mathrm{m}$ ) 3.9372

Nominal Velocity of Propagation: VP (\%) 66

Nom. Conductor DC Resistance: DCR@ $\mathbf{2 0}^{\circ} \mathrm{C}$ ( $\mathrm{Ohm} / \mathrm{km}$ ) 13.780

Nominal Outer Shield DC Resistance: DCR @ $20^{\circ} \mathrm{C}$ ( $\mathrm{Ohm} / \mathrm{km}$ ) 16.0769

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

Nom. Attenuation:

| Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) | Attenuation (dB/100m) |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | .039 |  | 0.26248 |

Max. Attenuation:
() Freq. (MHz) Attenuation ( $\mathrm{dB} / 100 \mathrm{~m}$ )

| 0.298571 | 0.039 | 0.299 |
| :--- | :--- | :--- | :--- |

Max. Operating Voltage - UL:
Voltage
300 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 $39.06 \mathrm{kHz}: 518 \mathrm{pS} / \mathrm{ft}$
Other Electrical Characteristic 2: $\quad 31.25 \mathrm{KBits} / \mathrm{sec}$

Put Ups and Colors:

| Item \# | Putup | Ship Weight | Color | Notes | Item Desc |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1363A 0031000 | 1,000 FT | 401.000 LB | ORANGE |  | 8 FS PR \#16 PO FS FRPVC |

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