

Customer Specification PART NO. 6452

Construction

| Construction | | | | <u> </u> | | |
|-----------------------|------------|--|---|----------------|----------------|--|
| | | _ | | Diameters (In) | | |
| 1) Component 1 | | 1 X 1 PAIR | 1 X 1 PAIR | | | |
| a) Conductor | | 22 (19/34) AWG TC | 22 (19/34) AWG TC | | 0.030 | |
| b) Insulation | | 0.021" Wall, Nom. PVC | 0.021" Wall, Nom. PVC | | 0.072 | |
| (1) Color(s) | | | | | | |
| Pair | Color | Pair | Color | Pair | Color | |
| 1 | BLACK-RED | | | | | |
| Individually Applied: | | | | | | |
| c) Shield: | | Alum/Mylar Tape, 25% | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| (1) Foil Direction | | Foil Facing Out | | | | |
| 2) Component 2 | | 1 X 1 PAIR | 1 X 1 PAIR | | | |
| a) Conductor | | 24 (19/36) AWG TC | 24 (19/36) AWG TC | | 0.025 | |
| b) Insulation | | 0.026" Wall, Nom. Foa | 0.026" Wall, Nom. Foam HDPE | | 0.077 | |
| (1) Color(s) | | | | | | |
| Pair | Color | Pair | Color | Pair | Color | |
| 1 | BLUE-WHITE | | | | | |
| Individually Applied: | | | | | | |
| c) Shield: | | Alum/Mylar Tape, 25% | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| (1) Foil Direction | | Foil Facing Out | Foil Facing Out | | | |
| 3) Cable Assembly | | 2 Components Cabled | 2 Components Cabled | | | |
| a) Twists: | | 4.0 Twists/foot (min) | 4.0 Twists/foot (min) | | | |
| 4) Shield | | TC BRAID Shield,65% | TC BRAID Shield,65% Coverage, Min. | | | |
| a) Drain Wire | | 22 (19/34) AWG TC | 22 (19/34) AWG TC | | | |
| 5) Jacket | | 0.033" Wall, Nom.,PV0 | 0.033" Wall, Nom.,PVC | | 0.280+/- 0.015 | |
| a) Color(s) | | SLATE | SLATE | | | |
| b) Jacket Separator | | Clear Mylar Tape, 25% Overlap, Min. | | | | |
| c) Print | | DEVICENET THIN A EXXXXX CL2 OR CMC OR AWM I/II A 80C 30 OIL RES (1 METER MA * = Factory Code | ALPHA WIRE-* P/N 6452 DEVICENET THIN 1PR22 1PR24 SHIELDED (UL) EXXXXX CL2 OR CMG 75C OR AWM 600V OR C(UL) CMG OR AWM I/II A 80C 300V FT4 SUN RES OIL RES (1 METER MARKING,METER) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] | | | |

Applicable Specifications

| 1) UL | CL2 | 75°C | |
|----------------------|-------------------|-----------------------------|--|
| | SUN RES | 75°C | |
| | СМС | 75°C | |
| | AWM/STYLE 20201 | 60°C / 600 V _{RMS} | |
| | OIL RES I | | |
| 2) CSA International | C(UL) TYPE CMG | 75°C | |
| | AWM I/II A | 80°C / 300 V _{RMS} | |
| | FT4 | | |
| 3) Other | ODVA CLASS 2 THIN | | |

Environmental

| 1) EU Directive 2002/95/EC(RoHS): | |
|-----------------------------------|--|
| | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |

Properties

| Physical &Mechanical Properties | |
|---------------------------------|--|
| 1) Temperature Range | -20 to 75°C(static), 0 to 80°C (dynamic) |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 29 Lbs, Maximum |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Component 1 | |
| a) Inductance | 0.221 μH/ft, Nominal |
| b) Conductor DCR | 17.5 O/1000ft @20°C, Nominal |
| c) Current | 2.4 amps per conductor @30°C, Maximum |
| 3) Component 2 | |
| a) Characteristic Impedance | 120 O +/- 12 |
| b) Inductance | 0.251 μH/ft, Nominal |
| c) Mutual Capacitance | 12 pf/ft @1 kHz, Nominal |
| d) Velocity of Propagation | 75 % |
| e) Conductor DCR | 28 O/1000ft @20°C, Nominal |
| f) Current | 1.7 amps per conductor @30°C, Maximum |
| g) Attenuation, Max dB/100ft | 0.29 @ 125 kHz |
| | 0.5 @ 500 kHz |
| | 0.7 @ 1 MHz |
| 4) OA Shield DCR | 3.2 O/1000ft @20°C, Nominal |

Other

| 1) Packaging | |
|--------------|--|
| a) 1000 FT | |
| b) 500 FT | |
| c) 100 FT | |

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742)

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:6452

6452, RoHS-Compliant Commencing With 7/1/2008 Production

This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.**

| Substance | Maximum Control Value |
|--|------------------------------|
| Lead | 0.1% by weight (1000 ppm) |
| Mercury | 0.1% by weight (1000 ppm) |
| Cadmium | 0.01% by weight (100 ppm) |
| Hexavalent Chromium | 0.1% by weight (1000 ppm) |
| Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE) | 0.1% by weight (1000 ppm) |
| Including Deca-BDE | 0.1% by weight (1000 ppm) |

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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