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Customer Specification

PART NO. 6462

Construction

| | | | | Diameters (In) | |
|-------------------|-------|---|-------|--------------------|-------|
| 1) Component 1 | | 2 X 1 COND | | | |
| a) Conductor | | 22 (SOLID) AWG BC | | 0.025 | |
| b) Insulation | | 0.037" Wall, Nom. Foam HDPE | | 0.099 | |
| (1) Color(s) | | | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | RED | 2 | GREEN | | |
| 2) Cable Assembly | | 2 Components Cabled | | | |
| a) Twists: | | 4.4 Twists/foot (min) | | | |
| 3) Shield: | | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| a) Foil Direction | | Foil Facing Out | | | |
| b) Braid | | TC,65% Coverage, Min. | | | |
| 4) Jacket | | 0.042" Wall, Nom.,PVC | | 0.315 (0.328 Max.) | |
| a) Color(s) | | VIOLET | | | |
| b) Print | | ALPHA WIRE P/N 6462 PROFIBUS CABLE 1PR22 (UL) CMG EXXXXX OR PLTC OR C(UL) CMG SUN RES OR AWM 20201 600V CE ROHS (SEQ FOOTAGE EVERY 2FT) [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] | | | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|-----------------------------|
| 1) UL | CMG | 75°C |
| | AWM/STYLE 20201 | 60°C / 600 V _{RMS} |
| | SUN RES | |
| | PLTC | 75°C |
| 2) CSA International | CMG | 75°C |
| 3) CE: | EU Low Voltage Directive 2006/95/EC | |

Environmental

| | |
|--|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): | |
| | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item. |
| 2) REACH Regulation (EC 1907/2006): | |
| | This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. |
| 3) California Proposition 65: | |
| | Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information. |

Properties

| | |
|----------------------------------|---------------------------------------|
| Physical & Mechanical Properties | |
| 1) Temperature Range | -30 to 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 14 Lbs, Maximum |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Characteristic Impedance | 150 Ω +/- 15 |
| 3) Mutual Capacitance | 8.5 pf/ft @1 kHz, Nominal |
| 4) Ground Capacitance | 27.9 pf/ft @1 kHz, Nominal |
| 5) Velocity of Propagation | 78 % |
| 6) Conductor DCR | 16 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 3.9 Ω/1000ft @20°C, Nominal |
| 8) Current | 2.3 amps per conductor @30°C, Maximum |
| 9) Attenuation, Max dB/100ft | 0.27 @ 200 kHz |
| | 0.67 @ 4 MHz |
| | 1.37 @ 16 MHz |

Other

| | |
|----------------------|---|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 18 x 12 x 8 Continuous length |
| b) 500 FT | 12 x 10 x 5 Continuous length |
| c) 100 FT | 12 x 4.5 x 3.5 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |
| Notes: | |
| a) PROFIBUS DP Cable | |

www.alphawire.com

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Tel: 1-800-52 ALPHA (25742)

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6462

6462 , RoHS-Compliant Commencing With 7/1/2008 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

| 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) | 0.1% by weight (1000 ppm) |
| Polybrominated Diphenyl Ethers (PBDE) , | |
| Including Deca-BDE | 0.1% by weight (1000 ppm) |
| Bis(2-ethylhexyl) phthalate (DEHP) | 0.1% by weight (1000 ppm) |
| Butyl benzyl phthalate (BBP) | 0.1% by weight (1000 ppm) |
| Dibutyl phthalate (DBP) | 0.1% by weight (1000 ppm) |
| Diisobutyl phthalate (DIBP) | 0.1% by weight (1000 ppm) |

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Authorized Signatory for the Alpha Wire:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering & QA

5/27/2020

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