



Customer Specification

PART NO. 58412

Construction

| | | | | | |
|-------------------|-----------|---|-------------|-----------------------|-------|
| | | | | Diameters (In) | |
| 1) Component 1 | | 2 X 1 PAIR | | | |
| a) Conductor | | 22 (7/30) AWG BC | | | |
| b) Insulation | | 0.008" Wall, Nom. PVC, Plenum Rated | | 0.046 | |
| (1) Color Code | | Alpha Wire Company Color Code A1 | | | |
| Pair | Color | Pair | Color | Pair | Color |
| 1 | BLACK-RED | 2 | BLACK-WHITE | | |
| c) Pair | | 2/Cond Cabled Together | | | |
| (1) Twists: | | 8.0 Twists/foot (min) | | | |
| 2) Cable Assembly | | 2 Components Cabled | | | |
| a) Twists: | | 4.8 Twists/foot (min) | | | |
| 3) Shield: | | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| a) Foil Direction | | Foil Facing Out | | | |
| b) Drain Wire | | 24 (7/32) AWG TC | | | |
| 4) Jacket | | 0.015" Wall, Nom.,PVC, Plenum Rated | | 0.185 (0.195 Max.) | |
| a) Color(s) | | SLATE | | | |
| b) Print | | ALPHA WIRE-* P/N 58412 2PR 22 AWG SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P ROHS * = Factory Code | | | |

Applicable Specifications

| | | |
|----------------------|----------------|----------|
| 1) UL | CL2P | 75°C |
| | CMP | 75°C |
| 2) CSA International | FT6 | |
| | C(UL) TYPE CMP | 75°C |

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. |
| 2) REACH Regulation (EC 1907/2006): | |
| | All materials used in the manufacture of this part do not appear on the EU REACH Substance of Very High Concern (SVHC) candidate list. |
| 3) California Proposition 65: | |
| | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

Properties

| Physical & Mechanical Properties | |
|----------------------------------|-----------------------------------|
| 1) Temperature Range | -20 to 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 26 Lbs, Maximum |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 46 pf/ft @ 1 kHz, Nominal |
| 3) Ground Capacitance | 83 pf/ft @ 1 kHz, Nominal |
| 4) Characteristic Impedance | 45 Ω |
| 5) Inductance | 0.17 μH/ft, Nominal |
| 6) Conductor DCR | 15.3 Ω/1000ft @ 20°C, Nominal |
| 7) OA Shield DCR | 15.8 Ω/1000ft @ 20°C, Nominal |

Other

| | |
|--------------|--|
| 1) Packaging | |
| a) 1000 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:58412

58412 , RoHS-Compliant Commencing With7/1/2004Production

*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 | 0.1% 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) |

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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