

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 2827/2
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Issue: 5
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A. Construction

Diameters

- | | | |
|----------------|--------------------------------|-------|
| 1) Component 1 | 2 X 1 COND | |
| a) Conductor | 20 (19/32) AWG SPC | |
| b) Insulation | 0.009" Wall, Nom. Teflon(PTFE) | 0.058 |
| (1) Color Code | Alpha Wire Color Code G | |

| Cond | Color | Cond | Color |
|------|-------|------|-------|
| 1 | WHITE | 2 | BLACK |

- | | | |
|-------------------|-------------------------------------|--------------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 8.0 Twists/foot (min) | |
| 3) Shield | SPC BRAID Shield,90% Coverage, Min. | |
| 4) Jacket | 0.012" Wall, Nom.,PTFE Tape | 0.158 (0.172 Max.) |
| a) Color(s) | WHITE | |

B. Industry Approvals

- | | | |
|-----------------------------------|------------------------|--------------|
| 1) Military | | |
| a) Component 1 | MIL-W-16878/4 (Type E) | 200°C / 600V |
| 2) Other | | |
| a) Component 1 | NEMA HP3-EXBGE | 200°C / 600V |
| 3) 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.

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|-------------------------------|--|
| 4) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |
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C. Physical & Mechanical Properties

- | | |
|----------------------|--------------------|
| 1) Temperature Range | -55 to 200°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 22.4 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------------|---|
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 30 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 54 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 48 Ω |
| 5) Inductance | 0.16 μH/ft, Nominal |
| 6) Conductor DCR | 8.8 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 6.3 Ω/1000ft @20°C, Nominal |

E. Other

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

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