

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45482
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Issue: 15
Issue Date: 1/19/2015
Effective Date: 1/31/2015

A. Construction

Diameters (In)

- | | | |
|----------------|-----------------------------|-------|
| 1) Component 1 | 2 X 1 PAIR | |
| a) Conductor | 22 (7/30) AWG Tinned Copper | 0.030 |
| b) Insulation | 0.016" Wall, Nom. TPE | 0.062 |
| (1) Color Code | Alpha Wire Color Code B | |

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	2	WHITE-BROWN		

- | | | |
|-------------------|---|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 6.9 Twists/foot (min) | |
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 5.3 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing In | |
| b) Drain Wire | 22 (7/30) AWG Tinned Copper | |
| 4) Jacket | 0.045" Wall, Nom., TPE | 0.301 (0.315 Max.) |
| a) Color(s) | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 45482 2PR 22 AWG
XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM
20237/21918 125C 300 V OR
CRU AWM I/II A/B 125C 300 V FT1
P-07-KA140023-MSHA CE ROHS
(SEQ FOOTAGE)
* = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------------|---|------------------------------|
| 1) UL | AWM/STYLE 20237 | 125°C / 300 V _{RMS} |
| | PLTC | 105°C |
| | AWM/STYLE 21918 | 125°C / 300 V _{RMS} |
| | SUN RES | |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 125°C / 300 V _{RMS} |
| | SUN RES (Black only) | |
| 3) Other | PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED | |
| 4) CE: | EU Low Voltage Directive 2006/95/EC | |

C. Environmental Compliance

- | | |
|-------------------------------|---|
| 1) CE: | EU Directive 2011/65/EU(RoHS2):
This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C . |
| 2) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

D. Physical & Mechanical Properties

- | | |
|------------------------|--------------------|
| 1) Temperature Range | -50 to 125°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 27 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties

- | | |
|-----------------------------|---------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 17.4 pf/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 31 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 87 Ω |

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- 5) Inductance 0.2 μ H/ft, Nominal
- 6) Conductor DCR 16.7 Ω /1000ft @20°C, Nominal
- 7) OA Shield DCR 11.8 Ω /1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)
- 2) Notes:
 - a) Print legend will contain CSA SUN RES on black cables only.

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