

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45466
Page 1 of 2 Pages

Issue: 15
Issue Date: 1/19/2015
Effective Date: 1/31/2015

A. Construction

Diameters (In)

- | | | |
|----------------|-----------------------------|-------|
| 1) Component 1 | 6 X 1 COND | |
| a) Conductor | 20 (7/28) AWG Tinned Copper | 0.038 |
| b) Insulation | 0.016" Wall, Nom. TPE | 0.070 |
| (1) Color Code | Alpha Wire Color Code D | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	WHITE	5	ORANGE
2	RED	4	GREEN	6	BLUE

- | | | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 6 Components Cabled | |
| a) Twists: | 4.8 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 | 20 (7/28) AWG Tinned Copper | |
| 4) Jacket | 0.045" Wall, Nom., TPE | 0.310 (0.323 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 45466 6C 20 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 | 61 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties

- | | |
|-----------------------|---------------------------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 22.6 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 41 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 µH/ft, Nominal |
| 5) Conductor DCR | 10.3 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 8.2 Ω/1000ft @20°C, Nominal |

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

