

Customer Specification

PART NO. 45156

Construction

| | | | | Diameters (In) | |
|-------------------|-------|---|-------|--------------------|--------|
| 1) Component 1 | | 6 X 1 COND | | | |
| a) Conductor | | 20 (7/28) AWG TC | | 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: | | A/P/A Tape, 25% Overlap, Min. | | | |
| a) Drain Wire | | 20 (7/28) AWG TC | | | |
| b) Braid | | TC,70% Coverage, Min. | | | |
| 4) Jacket | | 0.045" Wall, Nom.,TPE | | 0.334 (0.347 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 45156 6C 20 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C OR AWM 20237 125C 300 VOLTS -- LLXXXXX CSA AWM IA/B IIA/B 125C 300 VOLTS FT1 P-07-KA070017-MSHA CE (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] | | | |

Applicable Specifications

| | | |
|----------------------|---|------------------------------|
| 1) UL | AWM/STYLE 20237 | 125°C / 300 V _{RMS} |
| | PLTC | 105°C |
| 2) CSA International | AWM I/II A/B | 125°C / 300 V _{RMS} |
| | FT1 | |
| 3) Other | PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED | |
| 4) CE: | LVD 73/23/EEC Amendment 93/68/EEC | |

Environmental

| | |
|-----------------------------------|--|
| 1) EU Directive 2002/95/EC(RoHS): | |
| | All materials used in the manufacture of this part are compliant with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment under the now annulled Exemption 9A which allowed Deca-BDE. Alpha Wire is working to completely remove PBDE's from all products. Consult Alpha Wire's web site for compliance Date of Manufacture. |
| 2) 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 | -50 to 125°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 66 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 21.7 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 39 pF/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 µH/ft, Nominal |
| 5) Conductor DCR | 10.3 /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 2.8 /1000ft @20°C, Nominal |

Other

| | |
|------------------------|---|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 18 x 12 x 8 Continuous length |
| b) 500 FT | 12 x 12 x 3.5 Continuous length |
| c) Bulk(Made-to-order) | |
| | <i>[Spool dimensions may vary slightly]</i> |

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