



Customer Specification

PART NO. 45390/25

Construction

| | | | | | |
|-------------------|--------|---|-------------|--------------------|-----------------|
| | | Diameters (In) | | | |
| 1) Component 1 | | 25 X 1 COND | | | |
| a) Conductor | | 18 (16/30) AWG TC | | 0.047 | |
| b) Insulation | | 0.016" Wall, Nom. TPE | | 0.079 | |
| (1) Color Code | | Alpha Wire Color Code D | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK | 10 | SLATE | 19 | WHITE/YELLOW |
| 2 | RED | 11 | PINK | 20 | WHITE/BLUE |
| 3 | WHITE | 12 | TAN | 21 | WHITE/BROWN |
| 4 | GREEN | 13 | RED/GREEN | 22 | WHITE/ORANGE |
| 5 | ORANGE | 14 | RED/YELLOW | 23 | WHITE/SLATE |
| 6 | BLUE | 15 | RED/BLACK | 24 | WHITE/VIOLET |
| 7 | BROWN | 16 | WHITE/BLACK | 25 | WHITE/BLACK/RED |
| 8 | YELLOW | 17 | WHITE/RED | | |
| 9 | VIOLET | 18 | WHITE/GREEN | | |
| 2) Cable Assembly | | 25 Components Cabled | | | |
| a) Twists: | | 2.2 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 | | 18 (16/30) AWG TC | | | |
| 4) Jacket | | 0.055" Wall, Nom., TPE | | 0.592 (0.616 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 45390/25 25C 18 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C OR AWM 20237 125C 300 VOLTS -- LLXXXXX CSA AWM I/II A/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: | EU Low Voltage Directive 2006/95/EC | |

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 | 327 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 25 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 45 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.18 µH/ft, Nominal |
| 5) Conductor DCR | 7.3 /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 5.4 /1000ft @20°C, Nominal |

Other

| | |
|------------------------|-------------------------------------|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) | |

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