



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 45445

Construction

| | | | | | |
|-------------------|-------|---|--------|--------------------|--------|
| | | | | Diameters (In) | |
| 1) Component 1 | | 5 X 1 COND | | | |
| a) Conductor | | 14 (41/30) AWG TC | | 0.074 | |
| b) Insulation | | 0.032" Wall, Nom. TPE | | 0.138 | |
| (1) Color Code | | Alpha Wire Color Code E | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK | 3 | RED | 5 | YELLOW |
| 2 | BROWN | 4 | ORANGE | | |
| 2) Cable Assembly | | 5 Components Cabled | | | |
| a) Twists: | | 2.7 Twists/foot (min) | | | |
| b) Core Wrap | | Nonwoven Polyester Tape, 25% Overlap, Min. | | | |
| 3) Jacket | | 0.055" Wall, Nom.,TPE | | 0.489 (0.511 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 45445 5C 14 AWG XTRAGUARD(R) 4 E324185 (UL) TYPE WTTC 90C DRY 1000V OR (UL) TYPE TC 90C DRY 600V OR AWM 20238 125C 600V 14 AWG -- LLXXXXX CSA AWM I/II A/B 125C 600V FT1 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 20238 | 125°C / 600 V _{RMS} |
| | TC | 90°C / 600 V _{RMS} |
| | WTTC | 90°C / 1000 V _{RMS} |
| 2) CSA International | AWM I/II A/B | 125°C / 600 V _{RMS} |
| | FT1 | |
| 3) CE: | EU Low Voltage Directive 2006/95/EC | |

Environmental

| | |
|-------------------------------|--|
| 1) 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 | 161 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 600/1000 V _{RMS} |
| 2) Capacitance | 15.2 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance | 0.19 µH/ft, Nominal |
| 4) Conductor DCR | 2.8 Ω/1000ft @20°C, Nominal |

Other

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

www.alphawire.com

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