

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 45463
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Issue: 12
Issue Date: 6/19/2008
Effective Date: 7/1/2008

A. Construction

Diameters (In)

- | | | |
|----------------|---------------------------------|-------|
| 1) Component 1 | 3 X 1 COND | |
| a) Conductor | 20 (7/28) AWG TC | |
| b) Insulation | 0.016" Wall, Nom. TPE | 0.070 |
| (1) Color Code | Alpha Wire Company Color Code D | |

| Cond | Color | Cond | Color | Cond | Color |
|------|-------|------|-------|------|-------|
| 1 | BLACK | 2 | RED | 3 | WHITE |

- | | | |
|-------------------|---|--------------------|
| 2) Cable Assembly | 3 Components Cabled | |
| a) Twists: | 6.9 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 TC | |
| 4) Jacket | 0.045" Wall, Nom., TPE | 0.249 (0.260 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 45463 3C 20 AWG | |
- XTRAGUARD 4 XTREME PERFORMANCE FOR XTREME ENVIRONMENTS (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.]

B. Industry Approvals

- | | | |
|-----------------------------------|---|------------------|
| 1) UL | AWM/STYLE 20237 | 125°C / 300 VRMS |
| | PLTC | 105°C |
| 2) CSA International | AWM I/II A/B | 125°C / 300 VRMS |
| | FT1 | |
| 3) Other | PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED | |
| 4) 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.

- | | |
|-------------------------------|--|
| 5) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |
| 6) CE: | LVD 73/23/EEC Amendment 93/68/EEC |

C. Physical & Mechanical Properties

- | | |
|------------------------|--------------------|
| 1) Temperature Range | -50 to 125°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 35 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------|---|
| 1) Voltage Rating | 300 VRMS |
| 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 | 10.2 Ω/1000ft @20°C, Nominal |

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6) OA Shield DCR 8.2 Ω /1000ft @20°C, Nominal

E. Other

- 1) Packaging
 - a) 1000 FT
 - b) 500 FT
 - c) 100 FT
 - d) Bulk(Made-to-order)

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