

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 820248
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Issue: 4
Issue Date: 9/3/2015
Effective Date: 9/3/2015

A. Construction

- | | | <u>Diameters (In)</u> |
|----------------|-----------------------------------|-----------------------|
| 1) Component 1 | 4 X 1 PAIR | |
| a) Conductor | 22 (7/30) AWG Tinned Copper | 0.030 |
| b) Insulation | 0.010" Wall, Nom. PVC, Semi Rigid | 0.050 |
| (1) Color(s) | | |

Pair	Color	Pair	Color	Pair	Color
1	RED-BLACK	3	BLUE-GRAY		
2	WHITE-GREEN	4	PURPLE-YELLOW		

- | | | |
|-------------------|---|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 8.0 Twists/foot (min) | |
| 2) Cable Assembly | 4 Components Cabled | |
| a) Twists: | 5.3 Twists/foot (min) | |
| b) Orientation: | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | |
| c) 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 | 22 (7/30) AWG Tinned Copper | |
| 4) Jacket | 0.032" Wall, Nom., Polyurethane (TPU) | 0.271 (0.286 Max.) |
| a) Color(s) | YELLOW | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 820248 4PR 22 AWG
RU AWM 20549 VW-1 --- LLXXXXXX CSA
AWM I/II A/B 90C 300 VOLTS FT1 CE
ROHS (SEQ FOOTAGE)
* = Factory Code | |
- [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 10002 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 20549
VW-1 | 80°C / 300 V _{RMS} |
| 2) CSA International | AWM I/II A/B
FT1 | 90°C / 300 V _{RMS} |
| 3) 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) REACH Regulation (EC 1907/2006):
This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see [Alpha's REACH SVHC Declaration](#).
- 3) 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 -30 to 90°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 49 Lbs, Maximum

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- 4) Sunlight Resistance Yes
- E. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
 - 2) Mutual Capacitance 27 pf/ft @1 kHz, Nominal
 - 3) Ground Capacitance 49 pf/ft @1 kHz, Nominal
 - 4) Characteristic Impedance 70 Ω
 - 5) Inductance 0.18 μH/ft, Nominal
 - 6) Conductor DCR 16.7 Ω/1000ft @20°C, Nominal
 - 7) OA Shield DCR 11.8 Ω/1000ft @20°C, Nominal
- F. Other**
- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) 1000 FT 12 x 12 x 3.5 Continuous length
[Spool dimensions may vary slightly]

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By:	Date:
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