

**ALPHA WIRE**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 17-2530**  
**Page 1 of 2 Pages**

**Issue: 1**  
**Issue Date: 12/11/2017**  
**Effective Date: 1/1/2018**

**A. Construction**

**Diameters (mm)**

- |    |               |                            |      |
|----|---------------|----------------------------|------|
| 1) | Component 1   | 4 X 1 PAIR                 |      |
|    | a) Conductor  | 25 (34/40) AWG Bare Copper | 0.53 |
|    | b) Insulation | 0.29 Wall, Nom. XLPE       | 1.10 |
|    | (1) Color(s)  |                            |      |

Pair	Color	Pair	Color	Pair	Color
1	WHITE - WHITE/BLACK	3	RED-RED/BLACK		
2	BROWN- BROWN/BLACK	4	ORANGE-ORGANE/BLACK		

- |    |               |                            |      |
|----|---------------|----------------------------|------|
|    | c) Pair       | 2/Cond Cabled Together     |      |
|    | (1) Twists:   | 31.5 Twists/meter (min)    |      |
| 2) | Component 2   | 2 X 1 PAIR                 |      |
|    | a) Conductor  | 22 (66/40) AWG Bare Copper | 0.75 |
|    | b) Insulation | 0.325 Wall, Nom. XLPE      | 1.40 |
|    | (1) Color(s)  |                            |      |

Pair	Color	Pair	Color	Pair	Color
1	RED-BLACK	2	WHITE-GREEN		

- |    |                   |                                                                                                                                                   |                    |
|----|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|    | c) Pair           | 2/Cond Cabled Together                                                                                                                            |                    |
|    | (1) Twists:       | 26.2 Twists/meter (min)                                                                                                                           |                    |
| 3) | Cable Assembly    | 6 Components Cabled                                                                                                                               |                    |
|    | a) Twists:        | 8.7 Twists/meter (min)                                                                                                                            |                    |
|    | b) Orientation:   | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER                                                                                      |                    |
| 4) | Shield:           | Alum/Mylar Tape, 25% Overlap, Min.                                                                                                                |                    |
|    | a) Foil Direction | Foil Facing Out                                                                                                                                   |                    |
|    | b) Braid          | Tinned Copper,80% Coverage, Min.                                                                                                                  |                    |
| 5) | Jacket            | PVC                                                                                                                                               | 10.00 (10.50 Max.) |
|    | a) Color(s)       | BLACK                                                                                                                                             |                    |
|    | b) Print          | ALPHA WIRE-* P/N 17-2530 4PR 25 AWG (0.18mm <sup>2</sup> ) 2PR 22 AWG (0.34mm <sup>2</sup> )<br>80C 300V CE ROHS (SEQ METERS)<br>* = Factory Code |                    |

**B. Applicable Specifications**

- |    |     |                                     |
|----|-----|-------------------------------------|
| 1) | UL  | VW-1                                |
| 2) | CE: | EU Low Voltage Directive 2014/35/EC |

**C. Environmental Compliance**

- |    |                                  |                                                                                                                                                                                                                                                                                                                                                               |
|----|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) | CE:                              | EU Directive 2011/65/EU(RoHS2):<br>This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for <a href="#">RoHS C of C</a> . |
| 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 <a href="#">Alpha's REACH SVHC Declaration</a> .                                                                                                          |

**D. Physical & Mechanical Properties**

- |    |                    |                                          |
|----|--------------------|------------------------------------------|
| 1) | Temperature Range  | -20 to 80°C(static), 0 to 80°C (dynamic) |
| 2) | Bend Radius        | 10X Cable Diameter                       |
| 3) | Pull Tension       | 45 Lbs, Maximum                          |
| 4) | Drag Chain testing | 3 million flex life cycles               |

**E. Electrical Properties**

- |    |                |                                                         |
|----|----------------|---------------------------------------------------------|
| 1) | Voltage Rating | 300 V <sub>RMS</sub><br>(For Engineering purposes only) |
|----|----------------|---------------------------------------------------------|

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- 2) Component 1
  - a) Conductor DCR 105  $\Omega$ /Km @20°C, Max.
- 3) Component 2
  - a) Conductor DCR 54.6  $\Omega$ /Km @20°C, Max

**F. Other**

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

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

Accepted By:	Date:
Company:	Title:

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