ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 470025CY		**Issue:**	**1**
Page 1 of 2 Pages		**Issue Date:**	**6/23/2018**
		Effective Date:	**8/18/2018**

A. Construction — **Diameters (mm)**

1) Component 1 — 2 X 1 COND
   a) Conductor — 0.5 (20/0.177) mm^2 Bare Copper — 0.91
   b) Insulation — 0.40 mm Wall, Nom. PVC — 1.71+/- 0.08
      (1) Print Color — White
      (2) Color Code — Alpha Wire Color Code KZ

Cond	Color	Cond	Color	Cond	Color
1	BLACK#1	2	BLACK#2		

   c) Cabling — 2 COND Bunch Cabled — 3.42
      (1) Max Lay: — 70 mm LH Lay
      (2) Layup: — 2
      (3) Orientation: — Components to be arranged from INSIDE LAYER to OUTSIDE LAYER
   d) Jacket — 0.65 mm Wall, Nom., PVC — 4.76+/0.20
      (1) Color(s) — GREY
2) Shield — Tinned Copper BRAID Shield, 80% Coverage, Min.
3) Jacket — 0.80 mm Wall Nom., PVC — 7.10 (7.35 Max.)
   a) Color(s) — GREY (RAL-7001), CLEAR
   b) Print — ALPHA WIRE-* P/N 470025CY
      PRO-MET 300/500V 2X0.5MM2 PVC/PVC/TCB/PVC MULTI CORE
      CONTROL CABLE ◁ VDE-REG 8770 ▷ CE ROHS
      DDDYANN XXXXXXX M

      * = Factory Code

B. Applicable Specifications

1) IEC
   a) Component 1 — EN 60228 Conductors, Class 5
      DIN VDE 0295 Class 5
2) Other — IEC 60332-1 Flame Behavior
      DIN EN 50290-2-22 Oil Resistance
      UV Resistant
3) CE: — EU Low Voltage Directive 2014/35/EU

C. Environmental Compliance

1) CE: — EU Directive 2011/65/EU(RoHS2):
   All materials used in the manufacture and packaging of this part must meet the requirements of European Directive 2011/65/EU and the amending Directive 2015/863/EU of 4 June 2015 regarding the restriction of use of certain hazardous substances in electrical and electronic equipment.
2) REACH Regulation (EC 1907/2006):
   This product may not contain any of the substances listed in the latest issue European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.

D. Physical & Mechanical Properties

1) Temperature Range — -40 to 80°C(static), -30 to 70°C (dynamic)
2) Bend Radius — 6X Cable Diameter(static), 20X Cable Diameter(dynamic)
3) Sunlight Resistance — Yes

E. Electrical Properties — (For Engineering purposes only)

1) Voltage Rating — 300/500 V_{RMS}

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are not permitted without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product.
If vendor certifying agency requirements are in conflict with this document, **it is incumbent upon the vendor to notify the Alpha Wire Engineering Department** and mark up differences on this document and submit them for **review and approval prior to any production.** Be advised that **product legend information and product legend information and product label information must be in concert;** both are the responsibility of the vendor.
It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are not directly noted herein.
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2) Conductor DCR 39 Ω/Km @20°C, Max.

F. Other

1) Packaging Flange x Traverse x Barrel (inches)
   a) 300 M 16 x 11 x 8 Continuous length
   b) 100 M 12 x 4.5 x 3.5 Continuous length
   c) 50 M 12 x 4.5 x 3.5 Continuous length

[Spool dimensions may vary slightly]

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