2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

Customer Specification

PART NO. 78168

Construction

<table>
<tr><td></td><td>Diameters (In)</td><td></td></tr>
<tr><td>1) Component 1</td><td>8 X 1 PAIR</td><td></td></tr>
<tr><td>a) Conductor</td><td>26 (19/38) AWG Tinned Copper</td><td>0.020</td></tr>
<tr><td>b) Insulation</td><td>0.007" Wall, Nom. Modified Polyphenylene Ether-PE</td><td>0.034</td></tr>
<tr><td>(1) Color Code</td><td>Alpha Wire Color Code B</td><td></td></tr>
<tr><td colspan="3">
<table>
<tr><td>Pair</td><td>Color</td><td>Pair</td><td>Color</td><td>Pair</td><td>Color</td></tr>
<tr><td>1</td><td>WHITE-BLACK</td><td>4</td><td>WHITE-ORANGE</td><td>7</td><td>WHITE-BLUE</td></tr>
<tr><td>2</td><td>WHITE-BROWN</td><td>5</td><td>WHITE-YELLOW</td><td>8</td><td>WHITE-VIOLET</td></tr>
<tr><td>3</td><td>WHITE-RED</td><td>6</td><td>WHITE-GREEN</td><td></td><td></td></tr>
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</td></tr>
<tr><td>c) Pair</td><td>2/Cond Cabled Together</td><td></td></tr>
<tr><td>(1) Twists:</td><td>12.0 Twists/foot (min)</td><td></td></tr>
<tr><td>2) Cable Assembly</td><td>8 Components Cabled</td><td></td></tr>
<tr><td>a) Twists:</td><td>4.4 Twists/foot (min)</td><td></td></tr>
<tr><td>b) Orientation:</td><td>Components to be arranged from INSIDE LAYER to OUTSIDE LAYER</td><td></td></tr>
<tr><td>c) Core Wrap</td><td>Nonwoven Polyester Tape, 25% Overlap, Min.</td><td></td></tr>
<tr><td>3) Shield:</td><td>Alum/Mylar Tape, 25% Overlap, Min.</td><td></td></tr>
<tr><td>a) Foil Direction</td><td>Foil Facing In</td><td></td></tr>
<tr><td>b) Drain Wire</td><td>26 (7/34) AWG Tinned Copper</td><td></td></tr>
<tr><td>4) Jacket</td><td>0.015" Wall, Nom.,Modified Polyphenylene Ether-PE</td><td>0.223 (0.238 Max.)</td></tr>
<tr><td>a) Color(s)</td><td>SLATE</td><td></td></tr>
<tr><td>b) Ripcord</td><td>1 End 810 Denier Nylon</td><td></td></tr>
<tr><td>c) Print</td><td>ALPHA WIRE-* P/N 78168 8PR 26 AWG
ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1
C(RU) AWM I A/B FT1 80C 300V
CE ROHS (SEQ FOOTAGE)
* = Factory Code</td><td></td></tr>
</table>

Applicable Specifications

1) UL	AWM/STYLE 21460	80°C / 300 V_{RMS}
	VW-1	
2) CSA International	C(RU) AWM I A/B FT1	80°C / 300 V_{RMS}
3) Other	Halogen-Free	
	NFPA 79 - 2015 Compliant	
4) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	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.
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.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	40 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V_{RMS}
2) Mutual Capacitance	18.6 pF/ft @1 kHz, Nominal
3) Ground Capacitance	33 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	88 Ω
5) Inductance	0.18 µH/ft, Nominal
6) Conductor DCR	38 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	20.8 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10.5 x 5 Continuous length
b) 100 FT	6.5 x 4 x 2.5 Continuous length
c) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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Lead	□□□□□□□□□0.1% (1000 ppm)
Mercury	□□□□□□□□□0.1% (1000 ppm)
Cadmium	□□□□□□□□□0.01% (100 ppm)
Hexavalent Chromium	□□□□□□□□□0.1% (1000 ppm)
Polybrominated Biphenyls (PBB)	□□□□□□□□□0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	□□□□□□□□□0.1% (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	□□□□□□□□□0.1% (1000 ppm)
Butyl benzyl phthalate (BBP)	□□□□□□□□□0.1% (1000 ppm)
Dibutyl phthalate (DBP)	□□□□□□□□□0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	□□□□□□□□□0.1% (1000 ppm)

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