

## Customer Specification

# PART NO. 35468

## Construction

						Diameters (In)	
1) Component 1						8 X 1 COND	
a) Conductor						20 (7/28) AWG Tinned Copper	0.038
b) Insulation						0.016" Wall, Nom. PVC	0.070
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	4	GREEN	7	BROWN		
2	RED	5	ORANGE	8	YELLOW		
3	WHITE	6	BLUE				
2) Cable Assembly						8 Components Cabled	
a) Twists:						3.4 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Clear Mylar 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 Tinned Copper	
4) Jacket						0.032" Wall, Nom., Polyethylene (PE)	0.304 (0.318 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 35468 8C 20 AWG XTRAGUARD(R) 3 80C 300 VOLTS CE ROHS (SEQ FOOTAGE) * = Factory Code	

## Applicable Specifications

1) CE:	EU Low Voltage Directive 2014/35/EU
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# 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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

# Properties

Physical & Mechanical Properties	
1) Temperature Range	-30 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	79 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	39 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	70 pF/ft @1 kHz, Nominal
4) Inductance	0.19 µH/ft, Nominal
5) Conductor DCR	10.2 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	8.2 Ω/1000ft @20°C, Nominal

# Other

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

[www.alphawire.com](http://www.alphawire.com)

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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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