



# **Customer Specification**

**PART NO. 25110/40** 

Construction

						Diameters (In)	
1) Component 1			40 X 1 COND				
a) Conductor			22 (7/30) AWG Tinned Copper			0.030	
b) Insulation			0.010" V	Vall, Nom. PVC, Semi Rigid		0.050	
(1) Color Code			Alpha Wire Color Code E				
Cond	Color	Cond	ł	Color	Coi	nd	Color
1	BLACK	15		WHITE/YELLOW	29		WHITE/BROWN/ORANGE
2	BROWN	16		WHITE/GREEN	30		WHITE/BROWN/YELLOW
3	RED	17		WHITE/BLUE	31		WHITE/BROWN/GREEN
4	ORANGE	18		WHITE/VIOLET	32		WHITE/BROWN/BLUE
5	YELLOW	19		WHITE/SLATE	33		WHITE/BROWN/VIOLET
6	GREEN	20		WHITE/BLACK/BROWN	34		WHITE/BROWN/SLATE
7	BLUE	21		WHITE/BLACK/RED	35		WHITE/RED/ORANGE
8	VIOLET	22		WHITE/BLACK/ORANGE	36		WHITE/RED/YELLOW
9	SLATE	23		WHITE/BLACK/YELLOW	37		WHITE/RED/GREEN
10	WHITE	24		WHITE/BLACK/GREEN	38		WHITE/RED/BLUE
11	WHITE/BLACK	25		WHITE/BLACK/BLUE	39		WHITE/RED/VIOLET
12	WHITE/BROWN	26		WHITE/BLACK/VIOLET	40		WHITE/RED/SLATE
13	WHITE/RED	27		WHITE/BLACK/SLATE			
14	WHITE/ORANGE	28		WHITE/BROWN/RED			
2) Cable Assembly			40 Components Cabled				
a) Twists:			2.3 Twists/foot (min)				
b) Orientation:			Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap			Nonwoven Polyester Tape, 20% Overlap, Min.				
3) Shield:			A/P/A Tape, 20% Overlap, Min.				
a) Drain Wire			22 (7/30) AWG Tinned Copper				
b) Braid			Tinned Copper,70% Coverage, Nom.				
4) Jacket			0.032" Wall, Nom.,Polyurethane (TPU) 0.462 (0.485 Max.)			85 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 25110/40 XTRAGUARD(R) 2 RU AWM 20668 VW-1 OR CRU AWM I/II A/B 90C 300 VOLTS FT1 CE ROHS (SEQ FOOTAGE)  * = Factory Code				

# **Applicable Specifications**

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 20668	90°C / 300 V <sub>RMS</sub>
	VW-1	
2) CSA International	AWM I/II A/B	90°C / 300 V <sub>RMS</sub>
	FT1	
3) CE:	EU Low Voltage Directive 2014/3	5/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.			
	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 90°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	232 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Capacitance	35 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	63 pF/ft @1 kHz, Nominal	
4) Inductance	0.18 μH/ft, Nominal	
5) Conductor DCR	16.5 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	2.39 Ω/1000ft @20°C, Nominal	

#### **Other**

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

#### www.alphawire.com

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## **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 25110/40

25110/40, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/5/2024

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