

Customer Specification

PART NO. 25160/40

Construction

						Diameters (In)	
1) Component 1						40 X 1 COND	•
a) Conductor						20 (7/28) AWG Tinned Copper	0.038
b) Insulation						0.016" Wall, Nom. PVC	0.070
(1) Colo	or Code					Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		-
1	BLACK	15	RED/BLAC		WHITE/BLA		
2	RED	16	WHITE/BL/	30	WHITE/BLA		
3	WHITE	17	WHITE/RE	31	WHITE/BLA		
4	GREEN	18	WHITE/GR	32	WHITE/BLA		
5	ORANGE	19	WHITE/YEI	33	WHITE/BLA		
6	BLUE	20	WHITE/BLI	34	WHITE/RED		
7	BROWN	21	WHITE/BR	35	WHITE/RED		
8	YELLOW	22	WHITE/OR	36	WHITE/REE		
9	VIOLET	23	WHITE/SL/	37	WHITE/REE		
10	SLATE	24	WHITE/VIC	38	WHITE/REE		
11	PINK	25	WHITE/BL/	39	WHITE/REE		
12	TAN	26	WHITE/BL/	40	WHITE/GRI		
13	RED/GREE	27	WHITE/BL/				
14	RED/YELLC	28	WHITE/BL				
2) Cable Assembly						40 Components Cabled	
a) Twists:						1.6 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) Shie	ld:					A/P/A Tape, 20% Overlap, Min.	
a) Drain Wire						20 (7/28) AWG Tinned Copper	
						Tinned Copper,70% Coverage, Nom.	
4) Jack	et					0.053" Wall, Nom.,Polyurethane (TPU)	0.649 (0.676 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 25160/40 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	
						ROHS (SEQ FOOTAGE)	

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 20668	90°C / 300 V _{RMS}
	VW-1	
2) CSA International	C(RU) AWM I/II A/B	90°C / 300 V _{RMS}
	FT1	
3) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

duct complies with European Directive 2011/65/EU (RoHS e) of the European Parliament and of the Council of 8 June
d the amending Directive 2015/863/EU of 4 June 2015 . No ons are required for RoHS Compliance on this item.
duct may contain substances known to the State of ia to cause Cancer or Reproductive Harm, but is exempt beling based on the Consent Judgement. See the Alpha absite for more information.
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Properties

Physical & Mechanical Properties					
1) Temperature Range	-30 to 90°C				
2) Bend Radius	10X Cable Diameter				
3) Pull Tension	367 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	300 V _{RMS}				
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	10.3 Ω/1000ft @20°C, Nominal				
6) OA Shield DCR	1.78 Ω/1000ft @20°C, Nominal				

Other

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

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💋 AlphaWire

EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 25160/40

25160/40, 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 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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 9/7/2025

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