

Customer Specification

PART NO. 25390/50

Construction

						Diameter	rs (In)
1) Component 1			50 X 1 COND				
a) Conductor			18 (16/30) AWG Tinned Copper			0.047	
b) Insulation			0.016" Wall, Nom. PVC			0.079	
(1) Color C	ode		Alpha Wire	Color Code D			
Cond	Color	Cond	Co	olor	Co	ond	Color
1	BLACK	18	W	'HITE/GREEN	35		WHITE/RED/RED
2	RED	19	W	'HITE/YELLOW	36		WHITE/RED/GREEN
3	WHITE	20	W	'HITE/BLUE	37		WHITE/RED/BLUE
4	GREEN	21	W	'HITE/BROWN	38		WHITE/RED/BROWN
5	ORANGE	22	W	'HITE/ORANGE	39		WHITE/RED/VIOLET
6	BLUE	23	W	'HITE/SLATE	40		WHITE/GREEN/BLACK
7	BROWN	24	W	'HITE/VIOLET	41		WHITE/GREEN/RED
8	YELLOW	25	W	'HITE/BLACK/RED	42		WHITE/GREEN/GREEN
9	VIOLET	26	W	'HITE/BLACK/GREEN	43		WHITE/GREEN/BLUE
10	SLATE	27	W	'HITE/BLACK/YELLOW	44		WHITE/GREEN/BROWN
11	PINK	28	W	HITE/BLACK/BLUE	45		WHITE/GREEN/VIOLET
12	TAN	29	W	HITE/BLACK/BROWN	46		WHITE/BLUE/BLACK
13	RED/GREEN	30	W	'HITE/BLACK/ORANGE	47		WHITE/BLUE/RED
14	RED/YELLOW	31	W	HITE/BLACK/SLATE	48		WHITE/BLUE/GREEN
15	RED/BLACK	32	W	HITE/BLACK/VIOLET	49		WHITE/BLUE/BLUE
16	WHITE/BLACK	33	W	HITE/BLACK/BLACK	50		WHITE/BLUE/BROWN
17	WHITE/RED	34	w	HITE/RED/BLACK			
2) Cable A	ssembly		50 Compor	nents Cabled			
a) Twists:			1.3 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:			Alum/Mylar Tape, 20% Overlap, Min.				
a) Foil Direction			Foil Facing In				
b) Drain Wire			18 (16/30) AWG Tinned Copper				
4) Jacket			0.053" Wall, Nom.,Polyurethane (TPU) 0.762 (0.792 Max.)			92 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 25390/50 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 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 2014/3	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) 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 90°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	641 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Capacitance	45 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	81 pF/ft @1 kHz, Nominal		
4) Inductance	0.18 μH/ft, Nominal		
5) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	4.7 Ω/1000ft @20°C, Nominal		

Other

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

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 25390/50

25390/50, 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/7/2024

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