

Customer Specification

PART NO. 25456

Construction

						Diameters (In)
1) Compone	nt 1	6 X 1 PAIR				
a) Conductor		20 (7/28) AWG	20 (7/28) AWG Tinned Copper			
b) Insulation		0.016" Wall, No	0.016" Wall, Nom. PVC			
(1) Color Co	de	Alpha Wire Col	or Code A			
Pair	Color		Pair	Color	Pair	Color
1	BLACK-R	ED	3	BLACK-GREEN	5	BLACK-BROWN
2	BLACK-W	/HITE	4	BLACK-BLUE	6	BLACK-YELLOW
c) Pair		2/Cond Cabled	l Together			
(1) Twists:		6.0 Twists/foot				
2) Cable Assembly		6 Components Cabled				
a) Twists:		2.4 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		20 (7/28) AWG Tinned Copper				
4) Jacket		0.032" Wall, Nom.,Polyurethane (TPU)				0.419 (0.437 Max.)
a) Color(s) Slate, Black, Ye		llow, Orange	e, Blue, Green, Red, Sand Bei	ige, White		
b) Ripcord 1		1 End 810 Den	1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N 25456 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 2014/35/EU		

Environmental

1) CE: EU Directive 2011/65/8	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	114 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Mutual Capacitance	29 pF/ft @1 kHz, Nominal			
3) Ground Capacitance	52 pF/ft @1 kHz, Nominal			
4) Characteristic Impedance	74 Ω			
5) Inductance	0.19 μH/ft, Nominal			
6) Conductor DCR	10.3 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	7.5 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: 25456

25456, 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)

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 5/5/2024

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