

Customer Specification

PART NO. 25459/15

Construction

						Diameters (In)	
1) Component 1						15 X 1 PAIR	
a) Conductor						20 (7/28) AWG Tinned Copper	
b) Insulation						0.016" Wall, Nom. PVC	
(1) Color Code						Alpha Wire Color Code A	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	6	BLACK-YELLOW	11	RED-YELLOW		
2	BLACK-WHITE	7	BLACK-ORANGE	12	RED-BROWN		
3	BLACK-GREEN	8	RED-GREEN	13	RED-ORANGE		
4	BLACK-BLUE	9	RED-WHITE	14	GREEN-BLUE		
5	BLACK-BROWN	10	RED-BLUE	15	GREEN-WHITE		
c) Pair						2/Cond Cabled Together	
(1) Twists:						6.0 Twists/foot (min)	
2) Cable Assembly						15 Components Cabled	
a) Twists:						1.5 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						0.053" Wall, Nom., Polyurethane (TPU)	
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 25459/15 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/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	271 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	6.4 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: 25459/15

25459/15, 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

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/1/2025

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