

# **Customer Specification**

## PART NO. 25170/20

#### Construction

				Diameters (In)	
1) Component 1				20 X 1 COND	
a) Conductor				18 (16/30) AWG Tinned Copper	0.047
b) Insulation				0.016" Wall, Nom. PVC	0.079
				Alpha Wire Color Code D	]
Cond	Color	Cond	Color		
8	YELLOW	15	RED/BLACk		
9	VIOLET	16	WHITE/BLA		
10	SLATE	17	WHITE/REE		
11	PINK	18	WHITE/GRI		
12	TAN	19	WHITE/YEL		
13	RED/GREEM	20	WHITE/BLL		
14	RED/YELLC				
ly				20 Components Cabled	
a) Twists:				2.0 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				18 (16/30) AWG Tinned Copper	
b) Braid				Tinned Copper,70% Coverage, Nom.	
4) Jacket				0.032" Wall, Nom.,Polyurethane (TPU)	0.512 (0.532 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 25170/20 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	
	8 9 10 11 12 13	8 YELLOW   9 VIOLET   10 SLATE   11 PINK   12 TAN   13 RED/GREEN   14 RED/YELLC	8 YELLOW 15   9 VIOLET 16   10 SLATE 17   11 PINK 18   12 TAN 19   13 RED/GREEN 20   14 RED/YELLC 15	8YELLOW15RED/BLACH9VIOLET16WHITE/BLA10SLATE17WHITE/REE11PINK18WHITE/GRI12TAN19WHITE/YEL13RED/GREEN20WHITE/BLL14RED/YELLC	20 X 1 COND 18 (16/30) AWG Tinned Copper 0.016" Wall, Nom. PVC Alpha Wire Color Code D Cond Color Cond Color 8 YELLOW 15 RED/BLACH 9 VIOLET 16 WHITE/BLA 10 SLATE 17 WHITE/REE 11 PINK 18 WHITE/GRI 12 TAN 19 WHITE/YEL 13 RED/GREEF 20 WHITE/BLL 14 RED/YELLC 20 Components Cabled 2.0 Twists/foot (min) Components to be arranged from INSIDE LAYER to OUTSIDE LAYER Nonwoven Polyester Tape, 20% Overlap, Min. A/P/A Tape, 20% Overlap, Min. 18 (16/30) AWG Tinned Copper Tinned Copper,70% Coverage, Nom. 0.032" Wall, Nom.,Polyurethane (TPU) Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White 1 End 810 Denier Nylon ALPHA WIRE-* P/N 25170/20 XTRAGUARD(R) 2 RU AWM 20668 VW-1 OR CRU AWM JII A/B 90 C300 VOLTS FT1 CE ROHS (SEQ FOOTAGE)

### **Applicable Specifications**

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1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 20668	90°C / 300 V <sub>RMS</sub>
	VW-1	
2) CSA International	C(RU) AWM I/II A/B	90°C / 300 V <sub>RMS</sub>
	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	273 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
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	1.51 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: 25170/20

#### 25170/20, 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 8/18/2025

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