

2200 US Highway 27 South Richmond, IN 47374 Tel: 1-800-52 ALPHA Web: www.alphawire.com

15 16 17 18 19 20 21 22 23 24	15 RI 16 W 17 W 18 W 19 W 20 W 21 W 22 W 23 W 24 W	olor ED/BLAC VHITE/BL VHITE/RE VHITE/RE VHITE/YEI VHITE/BL VHITE/BR VHITE/OR VHITE/OR	29 30 31 32 33 34 35	Color WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/REE		0.038 0.070
15 16 17 18 19 20 21 22 23 24	15 RI 16 W 17 W 18 W 19 W 20 W 21 W 22 W 23 W 24 W	ED/BLAC VHITE/BL VHITE/RE VHITE/GR VHITE/YEI VHITE/BLI VHITE/BR	29 30 31 32 33 34 35	WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/REE	0.016" Wall, Nom. PVC Alpha Wire Color Code D	
15 16 17 18 19 20 21 22 23 24	15 RI 16 W 17 W 18 W 19 W 20 W 21 W 22 W 23 W 24 W	ED/BLAC VHITE/BL VHITE/RE VHITE/GR VHITE/YEI VHITE/BLI VHITE/BR	29 30 31 32 33 34 35	WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/REE	Alpha Wire Color Code D	0.070
15 16 17 18 19 20 21 22 23 24	15 RI 16 W 17 W 18 W 19 W 20 W 21 W 22 W 23 W 24 W	ED/BLAC VHITE/BL VHITE/RE VHITE/GR VHITE/YEI VHITE/BLI VHITE/BR	29 30 31 32 33 34 35	WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/REE		
15 16 17 18 19 20 21 22 23 24	15 RI 16 W 17 W 18 W 19 W 20 W 21 W 22 W 23 W 24 W	ED/BLAC VHITE/BL VHITE/RE VHITE/GR VHITE/YEI VHITE/BLI VHITE/BR	29 30 31 32 33 34 35	WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/REE		
16 17 18 19 20 21 22 23 24	16 W 17 W 18 W 19 W 20 W 21 W 22 W 23 W 24 W	VHITE/BL VHITE/RE VHITE/GR VHITE/YEI VHITE/BLI VHITE/BR VHITE/OR	30 31 32 33 34 35	WHITE/BLA WHITE/BLA WHITE/BLA WHITE/BLA WHITE/REC		
17 18 19 20 21 22 23 24	17 W 18 W 19 W 20 W 21 W 22 W 23 W 24 W	VHITE/REI VHITE/GR VHITE/YEI VHITE/BLI VHITE/BR	31 32 33 34 35	WHITE/BLA WHITE/BLA WHITE/BLA WHITE/REE		
18 19 20 21 22 23 24	18 W 19 W 20 W 21 W 22 W 23 W 24 W	VHITE/GR VHITE/YEI VHITE/BLI VHITE/BR VHITE/OR	32 33 34 35	WHITE/BLA WHITE/BLA WHITE/REE		
19 20 21 22 23 24	19 W 20 W 21 W 22 W 23 W 24 W	VHITE/YEI VHITE/BLI VHITE/BR VHITE/OR	33 34 35	WHITE/BLA WHITE/REE		
20 21 22 23 24	20 W 21 W 22 W 23 W 24 W	VHITE/BLI VHITE/BR VHITE/OR	34 35	WHITE/REC		
21 22 23 24	21 W 22 W 23 W 24 W	VHITE/BR	35			
22 23 24	22 W 23 W 24 W	VHITE/OR				
23 24	23 W 24 W		36	WHITE/REE		
24	24 W	VHITE/SL/		WHITE/REE		
			37	WHITE/REE		
		VHITE/VIC	38	WHITE/REE		
25	25 W	VHITE/BL	39	WHITE/REE		
26	26 W	VHITE/BL	40	WHITE/GRI		
EE 27	27 W	VHITE/BL/				
L(28	28 W	VHITE/BL/				r
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) 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.,PVC	0.626 (0.653 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 5470/40C 40C 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 OR C(UL) TYPE CMG 105C FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending	
						ALPHA WIRE-* P/N 5470/40C 40C 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 OR C(UL) TYPE CMG 105C FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE) * = Factory Code

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 2517	105°C / 300 V _{RMS}
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	CM	105°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) Other	Oil Resistant	
5) 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) REACH Regulation (EC 1907/2006):	
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item.
3) 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 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	358 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	6.4 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	30 x 14 x 12 Continuous length	
b) 500 FT	24 x 14 x 12 Continuous length	
c) 100 FT	18 x 9 x 8 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
Notes:		
a) Oil Resistant Jacket (7d @ 60C).		

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Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

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💋 AlphaWire

EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5470/40C

5470/40C, 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 4/1/2025

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