

Customer Specification

PART NO. 45470/40

Construction				

						Diameters	s (In)
1) Compor	nent 1		40 X 1 C	OND			
a) Conductor		20 (7/28) AWG Tinned Copper		0.038			
b) Insulation		0.016" W	0.016" Wall, Nom. TPE		0.070		
(1) Color C	ode		Alpha W	ire Color Code D			
Cond	Color	Cond		Color	Co	nd	Color
1	BLACK	15		RED/BLACK	29		WHITE/BLACK/BROWN
2	RED	16		WHITE/BLACK	30		WHITE/BLACK/ORANGE
3	WHITE	17		WHITE/RED	31		WHITE/BLACK/SLATE
4	GREEN	18		WHITE/GREEN	32		WHITE/BLACK/VIOLET
5	ORANGE	19		WHITE/YELLOW	33		WHITE/BLACK/BLACK
6	BLUE	20		WHITE/BLUE	34		WHITE/RED/BLACK
7	BROWN	21		WHITE/BROWN	35		WHITE/RED/RED
8	YELLOW	22		WHITE/ORANGE	36		WHITE/RED/GREEN
9	VIOLET	23		WHITE/SLATE	37		WHITE/RED/BLUE
10	SLATE	24		WHITE/VIOLET	38		WHITE/RED/BROWN
11	PINK	25		WHITE/BLACK/RED	39		WHITE/RED/VIOLET
12	TAN	26		WHITE/BLACK/GREEN	40		WHITE/GREEN/BLACK
13	RED/GREEN	27		WHITE/BLACK/YELLOW			
14	RED/YELLOW	28		WHITE/BLACK/BLUE			
2) Cable As	ssembly		40 Comp	oonents Cabled			
a) Twists:			1.6 Twist	s/foot (min)			
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER					
c) Core Wr	ар		Nonwov Min.	en Polyester Tape, 20% Overla	ар,		
3) Shield:			Alum/M	ylar Tape, 20% Overlap, Min.			
a) Foil Dire	ction		Foil Facing In				
b) Drain Wire		20 (7/28) AWG Tinned Copper					
4) Jacket 0.065" Wall, Nor				77 Max.)			
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red,		, Sand Beige	e, White		
b) Ripcord	Ripcord 1 End 810 Denier Nylon						
ALPHA WIRE-* P/N 45470/40 40C 20 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 20237/21918 125C 300 V OR C) Print CRU AWM I/II A/B 125C 300 V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code		М					

Applicable Specifications

1) UL	AWM/STYLE 20237	125°C / 300 V _{RMS}
	PLTC	105°C
	AWM/STYLE 21918	125°C / 300 V _{RMS}
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 300 V _{RMS}
	SUN RES (Black only)	
3) Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
4) CE:	EU Low Voltage Directive 2014/35/EU	-

Environmental

	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 Exemption are required for RoHS Compliance on this item.
2) REACH Regulation (EC 190	07/2006):
	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	-50 to 125℃		
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	22.6 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	41 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) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) Print legend will contain CSA SUN RES or	n black cables only.
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www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45470/40

45470/40, RoHS-Compliant Commencing With 10/1/2014 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 Dire RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacti extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). Th these Directives for the specific definitions and extents of the Directives. No Exemptions are required for RoHS Compliance on this item compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product

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 d 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 specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legisl product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/17/2024

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