

Customer Specification

PART NO. 5452C

Construction

				Di	ameters (In)	
1) Component 1	2 X 1 PAIR					
a) Conductor	20 (7/28) AWG Tinned (20 (7/28) AWG Tinned Copper			0.038	
b) Insulation	0.016" Wall, Nom. PVC			0.0	0.070	
(1) Color Code	Alpha Wire Color Code	A				
Pair	Color	Pair	Color		Pair	Color
1	BLACK-RED	2	BLACK-WHITE			
c) Pair	2/Cond Cabled Togethe	er				
(1) Twists:	6.0 Twists/foot (min)					
2) Cable Assembly	2 Components Cabled					
a) Twists:	3.7 Twists/foot (min)					
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			/ER		
c) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.					
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Direction	Foil Facing In					
b) Drain Wire	20 (7/28) AWG Tinned Copper					
4) Jacket	0.032" Wall, Nom.,PVC	0.032" Wall, Nom.,PVC			0.302 (0.316 Max.)	
a) Color(s)	Slate, Black, Yellow, Ora	inge, Blue, Gr	een, Red, Sand Beige, White			
b) Ripcord	1 End 810 Denier Nylor	1				
c) Print	ALPHA WIRE-* P/N 5452C 2PR 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 upon plant of manufacture.]					

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}	
	СМ	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

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.
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.
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

-30 to 105°C		
10X Cable Diameter		
44 Lbs, Maximum		
Yes		
(For Engineering purposes only)		
300 V _{RMS}		
35 pF/ft @1 kHz, Nominal		
63 pF/ft @1 kHz, Nominal		
58 Ω		
0.19 μH/ft, Nominal		
10.3 Ω/1000ft @20°C, Nominal		
8.2 Ω/1000ft @20°C, Nominal	8.2 Ω/1000ft @20°C, Nominal	
-	10X Cable Diameter 44 Lbs, Maximum Yes (For Engineering purposes only) 300 V _{RMS} 35 pF/ft @1 kHz, Nominal 63 pF/ft @1 kHz, Nominal 58 Ω 0.19 µH/ft, Nominal 10.3 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)			
a) 1000 FT	18 x 9 x 8 Continuous length			
b) 500 FT	12 x 10.5 x 5 Continuous length			
) 100 FT 10.5 x 5 x 3.5 Continuous length				
d) Bulk(Made-to-order)				
	[Spool dimensions may vary slightly]			
Notes:				
a) Oil Resistant Jacket (7d @ 60C).				

www.alphawire.com

Alpha Wire | 1320 City Center Drive, Suite 100, Carmel, IN 46032

Tel: 1-800-52 ALPHA (25742)

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5452C

5452C, 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)

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Authorized Signatory for the Alpha Wire:



Dave Watson, Director of Engineering 4/18/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000 单击下面可查看定价,库存,交付和生命周期等信息

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