

Request a Sample

# Customer Specification PART NO. 45104

#### Construction

				Diameters (In)		
1) Component 1		4 X 1 COND	4 X 1 COND			
a) Conductor		22 (7/30) AWG	22 (7/30) AWG Tinned Copper		0.030	
b) Insulation		0.016" Wall, No	0.016" Wall, Nom. TPE		0.062	
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	3	RED			
2	BROWN	4	ORANGE			
2) Cable Assembly		4 Components (	4 Components Cabled			
a) Twists:		6.9 Twists/foot (	6.9 Twists/foot (min)			
b) Core Wrap		Nonwoven Poly	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 259	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG	22 (7/30) AWG Tinned Copper			
b) Braid		Tinned Copper,	Tinned Copper,70% Coverage, Min.			
4) Jacket		0.045" Wall, No	0.045" Wall, Nom.,TPE		0.272 (0.284 Max.)	
a) Color(s)		Slate, Black, Ye	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Deni	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R 20237/21918 12: CRU AWM I/II A P-07-KA140023- (SEQ FOOTAGE	ALPHA WIRE-* P/N 45104 4C 22 AWG  XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 20237/21918 125C 300 V OR  CRU AWM I/II A/B 125C 300 V FT1  P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE)  * = Factory Code			

**Applicable Specifications** 

1) UL	AWM/STYLE 20237	125°C / 300 V <sub>RMS</sub>
	PLTC	105°C
	AWM/STYLE 21918	125°C / 300 V <sub>RMS</sub>
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 300 V <sub>RMS</sub>
	SUN RES (Black only)	
3) Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
4) CE:	EU Low Voltage Directive 2006/95/EC	

#### Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):		
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.	
2) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.	

### **Properties**

Physical & Mechanical Properties				
1) Temperature Range	-50 to 125°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	31 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
2) Capacitance	20.2 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	36 pf/ft @1 kHz, Nominal			
4) Inductance	0.2 μH/ft, Nominal			
5) Conductor DCR	16.4 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	3.9 Ω/1000ft @20°C, Nominal			

## Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	12 x 12 x 3.5 Continuous length	
b) 500 FT	12 x 6 x 3.5 Continuous length	
c) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
Notes:		
a) Print legend will contain CSA SUN RES on black cables only.		

www.alphawire.com

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#### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 45104

45104, RoHS-Compliant Commencing With 10/1/2014 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above 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) 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.

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 & QA

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