



|--|

□□□ **5909C**

Construction

						Diameter ("in")		
1) Component 1						9 x 1 PAIR		
a) Co	nductor					22 (SOLID) AWG Tinned Copper	0.025	
b) Ins	sulation					0.013" Wall, Nom. PVC	0.051	
(1) Color Code						Alpha Wire Color Code K		
Pair	Color	Pair	Color	Pair	Color			
1	BLACK-RED	4	BLACK- BLUE	7	BLACK- ORANGE			
2	BLACK- WHITE	5	BLACK- YELLOW	8	RED-WHITE			
3	BLACK- GREEN	6	BLACK- BROWN	9	RED-GREEN	N		
c) Pair				·		2/Cond Cabled Together		
(1) Twists						8.0 Twists/foot (min.)		
2) Cable Assembly						9 Components Cabled		
a) Twists						2.7 Twists/foot (min.)		
b) Orientation						Components to be arranged from INSIDE LAYER to LAYER		
c) Core Wrap						Clear Mylar Tape, 25% Overlap (min.)		
3) Shield						Alum/Mylar Tape, 25% Overlap (min.)		
a) Foil Direction						Foil Facing In		
b) Drain Wire						22 (7/30) AWG Tinned Copper		
4) Jacket						0.037" Wall, Nom. PVC	0.385 (0.405 max.)	
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N 5909C 9PR 22 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2464 OR C(UL) 75C TYPE CMG FT4 CE ROHS * = Factory Code Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.		

Applicable Specifications

1) UL	AWM/STYLE 2464	80°C / 300 V _{RMS}	
	СМ	75°C	
	VW-1		
2) CSA International	CMG	75°C	
	FT4		
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) 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 detail.

Properties

Physical & Mechanical Properties			
1) Temperature Range	-20 to 80°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	96 lbs. (max.)		
Electrical Properties	For Engineering purposes only		
1) Voltage Rating	300 V _{RMS}		
2) Mutual Capacitance	28 pF/ft @1 kHz, Nominal		
3) Ground Capacitance	50 pF/ft @1 kHz, Nominal		
4) Characteristic Impedance	76 ω		
5) Inductance	0.2 μH/ft, Nominal		
6) Conductor DCR	17.3 ω/1000ft @20°C, Nominal		
7) OA Shield DCR	10.3 ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)		
a) 1000 FT	18 x 14.25 x 8 Continuous Length		
b) 500 FT	18 x 9 x 8 Continuous Length		
c) 100 FT	12 x 5.94 x 5 Continuous Length		
	Spool dimensions may vary slightly.		

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document.

©2019 ALPHA WIRE - all rights reserved.



Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

\blacksquare	_	\blacksquare	
 _	_		_

Alpha Wire □□□□5909C

5909C000RoHS0000 2004/11/1 000000

□□□□□□□□0.1% (1000 ppm) Lead Mercury □□□□□□□□0.01% (100 ppm) Cadmium Hexavalent Chromium □□□□□□□□0.1% (1000 ppm) □□□□□□□□0.1% (1000 ppm) Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) □□□□□□□□0.1% (1000 ppm) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) □□□□□□□□0.1% (1000 ppm) Diisobutyl phthalate (DIBP) □□□□□□□□0.1% (1000 ppm)

Alpha Wire DDDDDDDD

□□□□□□□ Dave Watson 2025/11/7