



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742), Web: [www.alphawire.com](http://www.alphawire.com)

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# Customer Specification

## PART NO. 9852C

Construction

				Diameters (In)	
1) Component 1		3 X 1 PAIR			
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.017" Wall, Nom. Foam HDPE		0.064	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	GREEN-BLUE	2	YELLOW-ORANGE	3	WHITE-BROWN
c) Pair		2/Cond Cabled Together			
(1) Twists:		9.2 Twists/foot (min)			
Individually Applied:					
d) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out			
2) Component 2		1 X 1 PAIR			
a) Conductor		20 (7/28) AWG TC		0.038	
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.058	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED				
c) Pair		2/Cond Cabled Together			
(1) Twists:		9.6 Twists/foot (min)			
Individually Applied:					
d) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out			
3) Cable Assembly		4 Components Cabled			
a) Twists:		3.2 Twists/foot (min)			
4) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG TC			
b) Braid		TC,94% Coverage, Min.			
5) Jacket		0.032" Wall, Nom.,PVC		0.375 (0.391 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 9852C 3PR 22AWG 1PR 20AWG SHIELDED 75C (UL) CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE OR C(UL) CMG FT4 CE ROHS SEQ FOOTAGE * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

## Applicable Specifications

1) UL	CM	75°C
	AWM/STYLE 2919	80°C / 30 V <sub>RMS</sub>
2) CSA International	C(UL) TYPE CMG	75°C
	FT4	
3) 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) 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. For up-to-date information, please see Alpha's REACH SVHC Declaration.
3) 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	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	66 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Component 1	
a) Characteristic Impedance	78 Ω +/- 5
b) Inductance	0.21 μH/ft, Nominal
c) Mutual Capacitance	16.7 pf/ft @1 kHz, Nominal
d) Ground Capacitance	29.5 pf/ft @1 kHz, Nominal
e) Velocity of Propagation	78 %
f) Conductor DCR	16.7 Ω/1000ft @20°C, Nominal
g) Attenuation, Max dB/100ft	2.32 @ 10 MHz
3) Component 2	
a) Inductance	0.17 μH/ft, Nominal
b) Mutual Capacitance	45 pf/ft @1 kHz, Nominal
c) Conductor DCR	11.6 Ω/1000ft @20°C, Nominal
4) OA Shield DCR	1.5 Ω/1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9852C

9852C , RoHS-Compliant Commencing With 11/1/2004 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **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 11364-2006.

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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

1/8/2015

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