



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

Customer Specification

PART NO. M9520010

Construction

				Diameters (In)	
1) Component 1		1 X 1 PAIR			
a) Conductor		20 (7/.0121) AWG BC			
b) Insulation		0.016" Wall, Nom. PVC		0.068	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLACK-WHITE				
c) Pair		2/Cond Cabled Together			
(1) Twists:		6.0 Twists/foot (min)			
(2) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
2) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In			
b) Drain Wire		22 (7/30) AWG TC			
3) Jacket		0.038" Wall, Nom.,PVC		0.219 (0.229 Max.)	
a) Color(s)		BLACK			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N M9520010 1PR 20 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 ROHS * = Factory Code			

Applicable Specifications

1) UL	ITC	105°C
	SUN RES	
	PLTC	105°C
	CL3	105°C
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	21.6 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	47 pf/ft @1 kHz, Nominal
3) Ground Capacitance	85 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	48
5) Inductance	0.19 µH/ft, Nominal
6) Conductor DCR	10.5 /1000ft @20°C, Nominal
7) OA Shield DCR	11.7 /1000ft @20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	
d) Bulk(Made-to-order)	

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:M9520010

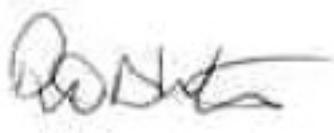
M9520010 , RoHS-Compliant Commencing With1/1/2006Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

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)	0.1% by weight (1000 ppm)
Including Deca-BDE	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 date of its release. The information provided is designed only as a 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 of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

11/2/2012