

Customer Specification

PART NO. M9520010

Construction

						Diameter	rs (In)	
1) Component 1 1 X 1 PAIR								
a) Conductor		20 (7/.0121) AWG Bare Copper			0.036			
b) Insulation		0.016" Wall, Nom. PVC			0.068			
(1) Color(s)								
Pair	Color		Pair	C	olor		Pair	Color
1	BLACK-	WHITE						
c) Pair 2/Cond Cabled Togeth			ner					
(1) Twists: 6.0 Twists/foot (min		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 Tinned Copper						
3) Jacket		0.038" Wall, Nom.,PVC			0.219 (0.229 Max.)			
a) Color(s) BLACK		BLACK						
b) Ripcord		1 End 810 Denier Nylon						
c) Print OR CL3 105C OR CC * = Factory Code		SHIELDED EXXXXX (UI OR CL3 105C OR C(UL * = Factory Code	M9520010 1PR 20 AWG UL) TYPE PLTC/ITC 105C SUN RES UL) CMG 105C FT4 CE ROHS have c(UL) or CSA markings depending upon plant of manufacture.]			facture.]		

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			
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.

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	42 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	76 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	51 Ω	
5) Inductance	0.19 μH/ft, Nominal	
6) Conductor DCR	10.5 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	11.7 Ω/1000ft @20°C, Nominal	

Other

Flange x Traverse x Barrel (inches)	
12 x 10.5 x 5 Continuous length	
12 x 5.94 x 5 Continuous length	
6.5 x 4 x 2.5 Continuous length	
[Spool dimensions may vary slightly]	
	12 x 10.5 x 5 Continuous length 12 x 5.94 x 5 Continuous length 6.5 x 4 x 2.5 Continuous length

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Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9520010

M9520010, RoHS-Compliant Commencing With 1/1/2006 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 5/1/2024

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