

Customer Specification PART NO. M1453

Construction

				Diameters (In))	
1) Component 1		3 X 1 COND	3 X 1 COND			
a) Conductor		20 (19/32) AWC	20 (19/32) AWG TC		0.040	
b) Insulation		0.010" Wall, No	0.010" Wall, Nom. PVC/ 0.003" Wall NYLON		0.066	
(1) Color Code		Alpha Wire Cold	Alpha Wire Color Code P			
Cond	Color	Cond	Color	Cond	Color	
1	WHITE	2	BLACK	3	RED	
2) Cable Assembly		3 Components	3 Components Cabled			
a) Twists:		6.0 Twists/foot	6.0 Twists/foot (min)			
3) Shield		TC BRAID Shie	TC BRAID Shield,90% Coverage, Min.			
4) Jacket		0.025" Wall, No	0.025" Wall, Nom.,PVC		0.214 (0.229 Max.)	
a) Color(s)		WHITE	WHITE			
b) Print		CE ROHS	ALPHA WIRE-* P/N M1453 3C 20 AWG CE ROHS * = Factory Code			

Applicable Specifications

1) UL	VW-1		
2) Military			
a) Component 1	MIL-W-16878/Type B/N	105°C / 600 V _{RMS}	
3) CE:	EU Low Voltage Directive 2006/95/EC		

Environmental

1) CE: EU Directive 2011/65/EU(RoH	IS2):
	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 1907/200	6):
	This product does not contain Substances of Very High Concern (SVHC) listed on the Europear 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.

Properties

Physical & Mechanical Properties				
1) Temperature Range	-55 to 105°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	33 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	49 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	88 pf/ft @1 kHz, Nominal			
4) Inductance	0.18 µH/ft, Nominal			
5) Conductor DCR	9.4 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	4.5 Ω/1000ft @20°C, Nominal			

Other

Flange x Traverse x Barrel (inches)	
12 x 10 x 5 Continuous length	
12 x 4.5 x 3.5 Continuous length	
6.5 x 4 x 2.5 Continuous length	
d) Bulk(Made-to-order)	
[Spool dimensions may vary slightly]	
	12 x 10 x 5 Continuous length 12 x 4.5 x 3.5 Continuous length 6.5 x 4 x 2.5 Continuous length

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M1453

M1453, RoHS-Compliant Commencing With 7/1/2005 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**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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

5/10/2013