

Customer Specification

PART NO. M3233

Construction

						Diameters (In)	
1) Component 1						3 X 1 COND	_
a) Conductor						20 (7/28) AWG Tinned Copper	0.038
b) Insulation						0.016" Wall, Nom. FRPE	0.070
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		_
1	BLACK	2	RED	3	WHITE	1	
2) Cable Assembly				-		3 Components Cabled	
a) Twist	:S:					5.3 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing Out	
b) Drain Wire						20 (7/28) AWG Tinned Copper	
4) Jacket						0.020" Wall, Nom.,PVC	0.198 (0.208 Max.
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N M3233 3C 20 AWG EXXXXXX 75C SHIELDED CMG (UL) C(UL) FT4 OR AWM STYLE 2093 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	-

Applicable Specifications

1) UL	AWM/STYLE 2093	60°C / 300 V _{RMS}
	CMG	75°C
2) CSA International	C(UL) TYPE CMG	75°C
	FT4	
3) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

oduct complies with European Directive 2011/65/EU (RoHS ve) of the European Parliament and of the Council of 8 June nd the amending Directive 2015/863/EU of 4 June 2015 . No tions are required for RoHS Compliance on this item.
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Properties

Physical & Mechanical Properties				
1) Temperature Range	-20 to 75°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	35 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Capacitance	23.9 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	43 pF/ft @1 kHz, Nominal			
4) Inductance	0.19 μH/ft, Nominal			
5) Conductor DCR	10.2 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	8.2 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	12 x 10.5 x 5 Continuous length	
b) 500 FT	10.5 x 5 x 3.5 Continuous length	
c) 100 FT	6.5 x 4 x 2.5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M3233

M3233, 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)

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:

Dave Watson, Director of Engineering 9/14/2025

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