

Customer Specification

PART NO. M4158

Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		16 (SOLID) AWG BC		0.051	
b) Insulation		0.055" Wall, Nom. Polyethylene, Foam		0.161	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	BLUE	2	CLEAR		
2) Cable Assembly		2 Components Cabled			
a) Twists:		3.0 Twists/foot (min)			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Braid		TC,90% Coverage, Min.			
4) Jacket		0.042" Wall, Nom.,PVC		0.440 (0.454 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M4158 EXXXXX 2C16 SHIELDED CMX (UL) OR AWM 2448 LOW VOLTAGE COMPUTER CABLE OR C(UL) CMX CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

Applicable Specifications

1) UL	CMX	60°C
	AWM/STYLE 2448	60°C / 30 V _{RMS}
2) CSA International	C(UL) TYPE CMX	60°C

3) CE:	EU Low Voltage Directive 2006/95/EC
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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 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	53 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	124 Ω +/- 5
3) Inductance	0.24 μH/ft, Nominal
4) Mutual Capacitance	10.9 pf/ft @1 kHz, Nominal
5) Ground Capacitance	19.3 pf/ft @1 kHz, Nominal
6) Velocity of Propagation	78 %
7) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal
8) OA Shield DCR	1.3 Ω/1000ft @20°C, Nominal
9) Attenuation, Nom dB/100ft	0.2 @ 1 MHz
	0.7 @ 10 MHz
	1.8 @ 50 MHz
	2.9 @ 100 MHz
	4.1 @ 200 MHz

6.2 @ 400 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 12 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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