

Customer Specification

PART NO. M39117

Construction

						Diameters (In)		
1) Component 1						2 X 1 COND		
a) Conductor						18 (19/30) AWG Tinned Copper		0.050
b) Insulation						0.016" Wall, Nom. PVC		0.082
(1) Color Code						Alpha Wire Color Code D		
Cond	Color	Cond	Color	Cond	Color			
1	BLACK	2	RED					
2) Cable Assembly						2 Components Cabled		
a) Twists:						5.3 Twists/foot (min)		
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.		
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.		
a) Foil Direction						Foil Facing In		
b) Drain Wire						20 (19/32) AWG Tinned Copper		
4) Jacket						0.038" Wall, Nom.,PVC		0.247 (0.257 Max.)
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N M39117 2C 18 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>		

Applicable Specifications

1) UL	ITC	105°C
	SUN RES	
	PLTC	105°C
	CL3	105°C
2) CSA International	C(UL) TYPE CMG	105°C
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	39 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Capacitance	52 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	94 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	41 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	5.9 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	7.7 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	13.5 x 10 x 4 Continuous length
b) 500 FT	12 x 5.94 x 5 Continuous length
c) 100 FT	10.5 x 5 x 3.5 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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