

# Customer Specification

## PART NO. M39152

### Construction

						Diameters (In)	
1) Component 1						11 X 1 PAIR	
a) Conductor						22 (7/30) AWG Tinned Copper	0.030
b) Insulation						0.016" Wall, Nom. PVC	0.062
(1) Color Code						Alpha Wire Color Code BR	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK#1-RED#1	5	BLACK#5-RED#5	9	BLACK#9-RED#9		
2	BLACK#2-RED#2	6	BLACK#6-RED#6	10	BLACK#10-RED#10		
3	BLACK#3-RED#3	7	BLACK#7-RED#7	11	BLACK#11-RED#11		
4	BLACK#4-RED#4	8	BLACK#8-RED#8				
c) Pair						2/Cond Cabled Together	
(1) Twists:						6.9 Twists/foot (min)	
Individually Applied:							
d) Shield:						Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
(1) Foil Direction						Foil Facing In	
(2) Drain Wire						24 (7/32) AWG Tinned Copper	
2) Cable Assembly						11 Components Cabled	
a) Twists:						1.8 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) Jacket						0.053" Wall, Nom.,PVC	0.563 (0.588 Max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N M39152 11PR 22 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CMG 105C OR C(UL) CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

## Applicable Specifications

1) UL	CMG	105°C
	PLTC	105°C
	SUN RES	
	ITC	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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	160 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	38 pF/ft @1 kHz, Nominal
3) Ground Capacitance	68 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	56 Ω
5) Inductance	0.2 μH/ft, Nominal
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal
7) Component Shield DCR	19.8 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) 500 FT	18 x 14.25 x 8 Continuous length
c) 100 FT	18 x 9 x 8 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

[www.alphawire.com](http://www.alphawire.com)

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