

Customer Specification

PART NO. M13142

Construction

						Diameters (In)		
1) Component 1						2 X 1 PAIR		
a) Conductor						20 (7/28) AWG Tinned Copper		0.038
b) Insulation						0.010" Wall, Nom. PVC, Semi Rigid		0.058
(1) Color(s)								
Pair	Color	Pair	Color	Pair	Color			
1	BLACK-RED	2	GREEN-WHITE					
c) Pair						2/Cond Cabled Together		
(1) Twists:						8.0 Twists/foot (min)		
Individually Applied:								
d) Shield:						Foil Free Alum/Mylar Tape, 25% Overlap, Min.		
(1) Foil Direction						Foil Facing In		
(2) Drain Wire						22 (7/30) AWG Tinned Copper		
2) Cable Assembly						2 Components Cabled		
a) Twists:						4.0 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						0.032" Wall, Nom.,PVC		0.280 (0.293 Max.)
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N M13142 2PR 20 AWG EXXXXXXX 75C CMG(UL) C(UL) OR AWM STYLE 2464 CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>		

Applicable Specifications

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1) UL	CMG	75°C
	AWM/STYLE 2464	80°C / 300 V _{RMS}
2) CSA International	C(UL) TYPE CMG	75°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 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	46 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	43 pF/ft @1 kHz, Nominal
3) Ground Capacitance	77 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	43 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	10.3 Ω/1000ft @20°C, Nominal
7) Component Shield DCR	13.9 Ω/1000ft @20°C, Nominal

Other

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Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	13.5 x 10 x 4 Continuous length
b) 500 FT	12 x 10.5 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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