

Customer Specification

PART NO. 80139

Construction

						Diameters (In)	
1) Component 1						18 X 1 COND	
a) Con	ductor					18 (41/34) AWG Tinned Copper	0.043
b) Insu	lation					0.012" Wall, Nom. MPPE	0.067
II(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
(2) Col	or Code					Alpha Wire Color Code KX	
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELI	7	BLACK#6	13	BLACK#12		
2	BLACK#1	8	BLACK#7	14	BLACK#13		
3	BLACK#2	9	BLACK#8	15	BLACK#14		
4	BLACK#3	10	BLACK#9	16	BLACK#15		
5	BLACK#4	11	BLACK#10	17	BLACK#16		
6	BLACK#5	12	BLACK#11	18	BLACK#17		
2) Cabl	le Assembly					18 Components Cabled	
a) Twis	ts:					3.0 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core	e Wrap					Nonwoven Polyester Tape, 25% Overlap, Min.	
3) Shie	ld					Tinned Copper BRAID Shield,85% Coverage, Min.	
4) Jack	et					0.032" Wall, Nom.,Polyurethane, Zero Halogen (ZH)	0.435+/- 0.018
a) Color(s)						SLATE	
b) Jacket Separator						Tissue Tape, 25% Overlap, Min.	
c) Print						ALPHA WIRE-* P/N 80139 18C 18 AWG RU AWM STYLE 21959 90C 600V SUN RES 60C OIL OR CRU AWM I/II A/B 90C 600V FT2 IEC EN 60332-1/2 CE ROHS (SEQ FOOTAGE) * = Factory Code	

Applicable Specifications

1) UL			
a) Component 1	AWM/STYLE 11231	105°C / 600 V _{RMS}	
b) Overall	AWM/STYLE 21959	90°C / 600 V _{RMS}	
	60C OIL		
	SUN RES		
2) CSA International	C(RU) AWM I/II A/B	90°C / 600 V _{RMS}	
	FT2		
3) IEC			
a) Component 1	EN 60228 Conductors, Class 6		
b) Overall	EN 60754-1 Acid Gas Generation		
	EN 60754-2 Acid Gas Generation		
	EN 60332-1 Flame Behavior		
	EN 60332-2 Flame Behavior		
4) Other	NFPA 79 - 2015 Compliant		
5) 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	-50 to 90°C(static), -40 to 80°C (dynamic)		
2) Bend Radius	4X Cable Diameter(static), 6X Cable Diameter(dynamic)		
3) Pull Tension	239 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V _{RMS}		
2) Capacitance	33 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	59 pF/ft @1 kHz, Nominal		
4) Inductance	0.17 μH/ft, Nominal		
5) Conductor DCR	7 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	2.6 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 100 FT	12 x 5.94 x 5 Continuous length	
b) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

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Lead Mercury □□□□□□□□0.1% (1000 ppm) Cadmium Hexavalent Chromium □□□□□□□□0.1% (1000 ppm) Polybrominated Biphenyls (PBB) □□□□□□□□0.1% (1000 ppm) Polybrominated Diphenyl Ethers (PBDE), □□□□□□□□0.1% (1000 ppm) Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP)

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