Customer Specification

PART NO. 55271

Construction

		Diameters (In)	
1) Component 1		1 X 1 PAIR	
a) Conductor		24 (7/32) AWG Tinned Copper	0.024
b) Insulation		0.010" Wall, Nom. FEP	0.044
(1) Color Code		Alpha Wire Color Code A	

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED				

c) Cabling		2 COND Cabled	
(1) Twists:		9.6 Twists/foot (min)	
(2) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
(3) Core Wrap		PTFE(skived) Tape, 25% Overlap, Min.	
2) Shield:		A/P/A Tape, 25% Overlap, Min.	
a) Drain Wire		24 (7/32) AWG Tinned Copper	
b) Braid		Tinned Copper,70% Coverage, Min.	
3) Jacket		0.027" Wall, Nom.,FEP	0.176 (0.186 Max.)
a) Tint Color(s)		Natural Tan, Slate, Black, Yellow, Orange, Blue, Green, Red, White	
b) Ripcord		Para-Aramid fiber(Kevlar, Twaron or equal)	
c) Marker Tape		ALPHA WIRE-* XTRAGUARD(R) 5 - 24 AWG SHIELDED 150C (UL) CMP OR AWM 20229 -- LLXXXXXX CSA CMP FT6 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

Applicable Specifications

1) UL	CMP	150°C
	AWM/STYLE 20229	150°C / 300 V_{RMS}
2) CSA International	CMP	150°C
	FT6	
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	-80 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	12.5 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V_{RMS}
2) Mutual Capacitance	20.9 pF/ft @1 kHz, Nominal
3) Ground Capacitance	38 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	70 Ω
5) Inductance	0.19 µH/ft, Nominal
6) Conductor DCR	25 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	6.5 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	

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Lead	□□□□□□□□□0.1% (1000 ppm)
Mercury	□□□□□□□□□0.1% (1000 ppm)
Cadmium	□□□□□□□□□0.01% (100 ppm)
Hexavalent Chromium	□□□□□□□□□0.1% (1000 ppm)
Polybrominated Biphenyls (PBB)	□□□□□□□□□0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE),	
Including Deca-BDE	□□□□□□□□□0.1% (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	□□□□□□□□□0.1% (1000 ppm)
Butyl benzyl phthalate (BBP)	□□□□□□□□□0.1% (1000 ppm)
Dibutyl phthalate (DBP)	□□□□□□□□□0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	□□□□□□□□□0.1% (1000 ppm)

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