

Customer Specification

PART NO. 55451

Construction

						Diameters (In)	
1) Component 1						1 X 1 PAIR	
a) Conductor						20 (7/28) AWG Tinned Copper	0.038
b) Insulation						0.011" Wall, Nom. FEP	0.060
(1) Color Code						Alpha Wire Color Code A	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED						
c) Cabling						2 COND Cabled	
(1) Twists:						6.9 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:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing In	
b) Drain Wire						20 (7/28) AWG Tinned Copper	
3) Jacket						0.027" Wall, Nom.,FEP	0.186 (0.196 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) Print						ALPHA WIRE-* XTRAGUARD(R) 5 20 AWG SHIELDED 150C E163860 (UL) C(UL) TYPE CMP OR AWM 20229 --- IEC EN 60332-1/-2 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		
a) Component 1	AWM/STYLE 1886	150°C / 300 V _{RMS}
b) Overall	CMP	150°C
	AWM/STYLE 20229	150°C / 300 V _{RMS}
	UL-910/NFPA 262 (Steiner Tunnel) Flame Test	
2) CSA International	C(UL) TYPE CMP	150°C
	FT6	
3) IEC	EN 50356 Spark Testing	
	EN 50395, Section 10, Faults in Insulation	
	EN 50396, Section 4, Test Methods for Dimensions	
	EN 60228 Conductors, Class 2	
	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) Other	ICEA T-29-520 210,000 BTU/Hr. Flame Test	
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.
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

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Physical & Mechanical Properties	
1) Temperature Range	-80 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	26 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	25 pF/ft @1 kHz, Nominal
3) Ground Capacitance	45 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	58 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	10.1 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	9.3 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 3280 FT	18 x 14.25 x 8 Continuous length
b) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) Nature Tan color 3280ft packaging is for special order.	

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