



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 45125

Construction

				Diameters (In)	
1) Component 1		5 X 1 PAIR			
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.016" Wall, Nom. TPE		0.062	
(1) Color Code		Alpha Wire Color Code B			
Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	3	WHITE-RED	5	WHITE-YELLOW
2	WHITE-BROWN	4	WHITE-ORANGE		
c) Pair		2/Cond Cabled Together			
(1) Twists:		6.9 Twists/foot (min)			
2) Cable Assembly		5 Components Cabled			
a) Twists:		3.7 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		22 (7/30) AWG TC			
b) Braid		TC,70% Coverage, Min.			
4) Jacket		0.055" Wall, Nom.,TPE		0.418 (0.437 Max.)	
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N 45125 5PR 22 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C OR AWM 20237 125C 300 VOLTS -- LLXXXXX CSA AWM I/II A/B 125C 300 VOLTS FT1 P-07-KA070017-MSHA CE (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL	AWM/STYLE 20237	125°C / 300 V _{RMS}
	PLTC	105°C
2) CSA International	AWM I/II A/B	125°C / 300 V _{RMS}
	FT1	
3) Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
4) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.
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Properties

Physical & Mechanical Properties	
1) Temperature Range	-50 to 125°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	67 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	15.7 pf/ft @1 kHz, Nominal
3) Ground Capacitance	28 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	101
5) Inductance	0.2 µH/ft, Nominal
6) Conductor DCR	16.7 /1000ft @20°C, Nominal
7) OA Shield DCR	2.2 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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