



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

Customer Specification

PART NO. 45121

Construction

			Diameters (In)		
1) Component 1	1 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				
c) Cabling	2 COND Cabled				
(1) Twists:	8.0 Twists/foot (min)				
(2) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.				
2) Shield:	A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire	22 (7/30) AWG TC				
b) Braid	TC,70% Coverage, Min.				
3) Jacket	0.045" Wall, Nom.,TPE			0.246 (0.256 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 45121 1PR 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 <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>				

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) EU Directive 2002/95/EC(RoHS):	All materials used in the manufacture of this part are compliant with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment under the now annulled Exemption 9A which allowed Deca-BDE. Alpha Wire is working to completely remove PBDE's from all products. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-50 to 125°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	19.1 Lbs, Maximum
4) Sunlight Resistance	Yes
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	75
5) Inductance	0.2 µH/ft, Nominal
6) Conductor DCR	16.2 /1000ft @20°C, Nominal
7) OA Shield DCR	4.7 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
b) 500 FT	12 x 6 x 3.5 Continuous length
c) Bulk(Made-to-order)	
<i>[Spool dimensions may vary slightly]</i>	

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