



Customer Specification

PART NO. 45108

Construction

		Diameters (In)			
1) Component 1		8 X 1 COND			
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 E			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	4	ORANGE	7	BLUE
2	BROWN	5	YELLOW	8	VIOLET
3	RED	6	GREEN		
2) Cable Assembly		8 Components Cabled			
a) Twists:		4.8 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		0.045" Wall, Nom., TPE		0.329 (0.343 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 45108 8C 22 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C OR AWM 20237 125C 300 VOLTS -- LLXXXXX CSA AWM IA/B IIA/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:	LVD 73/23/EEC Amendment 93/68/EEC	

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	54 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	19.3 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	35 pf/ft @1 kHz, Nominal
4) Inductance	0.2 μH/ft, Nominal
5) Conductor DCR	16.5 /1000ft @20°C, Nominal
6) OA Shield DCR	3.1 /1000ft @20°C, Nominal

Other

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

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