



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

# Customer Specification

## PART NO. 45462

### Construction

		Diameters (In)			
1) Component 1	2 X 1 COND				
a) Conductor	20 (7/28) AWG TC	0.038			
b) Insulation	0.016" Wall, Nom. TPE	0.070			
(1) Color Code	Alpha Wire Color Code D				
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		
2) Cable Assembly	2 Components Cabled				
a) Twists:	8.0 Twists/foot (min)				
b) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing In				
b) Drain Wire	20 (7/28) AWG TC				
4) Jacket	0.045" Wall, Nom.,TPE	0.238 (0.248 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 45462 2C 20 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 <sub>RMS</sub>
	PLTC	105°C
2) CSA International	AWM I/II A/B	125°C / 300 V <sub>RMS</sub>
	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	26 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	23.8 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	43 pf/ft @ 1 kHz, Nominal
4) Characteristic Impedance	66
5) Inductance	0.19 µH/ft, Nominal
6) Conductor DCR	10.2 /1000ft @20°C, Nominal
7) OA Shield DCR	8.2 /1000ft @20°C, Nominal

## Other

<b>Packaging</b>	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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