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# Customer Specification

## PART NO. 45534

### Construction

		Diameters (In)			
1) Component 1		4 X 1 COND			
a) Conductor		16 (19/.0117) AWG Tinned Copper		0.059	
b) Insulation		0.032" Wall, Nom. TPE		0.123	
(1) Color Code		Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	RED		
2	BROWN	4	ORANGE		
2) Cable Assembly		4 Components Cabled			
a) Twists:		3.4 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		16 (19/.0117) AWG Tinned Copper			
b) Braid		Tinned Copper, 70% Coverage, Min.			
4) Jacket		0.055" Wall, Nom., TPE		0.440 (0.460 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 45534 4C 16 AWG XTRAGUARD(R) 4 E324185 (UL) TYPE WTTC 90C DRY 1000V OR (UL) TYPE TC 90C DRY 600V OR AWM 20238 125C 600V 16 AWG OR CRU AWM I/II A/B 125C 600V FT1 P-07-KA140023-MSHA CE (SEQ FOOTAGE) * = Factory Code			

### Applicable Specifications

1) UL	AWM/STYLE 20238	125°C / 600 V <sub>RMS</sub>
	TC	90°C / 600 V <sub>RMS</sub>
	WTTC	90°C / 1000 V <sub>RMS</sub>
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 600 V <sub>RMS</sub>
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	109 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600/1000 V <sub>RMS</sub>
2) Capacitance	19.8 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	36 pf/ft @1 kHz, Nominal
4) Inductance	0.2 µH/ft, Nominal
5) Conductor DCR	4.4 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	1.63 Ω/1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	

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