

Customer Specification

PART NO. 45522

Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		18 (16/30) AWG Tinned Copper		0.047	
b) Insulation		0.032" Wall, Nom. TPE		0.111	
(1) Color Code		Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN		
2) Cable Assembly		2 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		18 (16/30) AWG Tinned Copper			
b) Braid		Tinned Copper,70% Coverage, Min.			
4) Jacket		0.055" Wall, Nom.,TPE		0.364 (0.382 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 45522 2C 18 AWG XTRAGUARD(R) 4 E324185 (UL) TYPE WTTTC 90C DRY 1000V OR (UL) TYPE TC 90C DRY 600V OR AWM 20238 125C 600V 18 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 _{RMS}
	TC	90°C / 600 V _{RMS}
	WTTTC	90°C / 1000 V _{RMS}
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 600 V _{RMS}
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	43 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600/1000 V _{RMS}
2) Capacitance	19 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	34 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	83 Ω
5) Inductance	0.22 μH/ft, Nominal
6) Conductor DCR	7.2 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	2.22 Ω/1000ft @20°C, Nominal

Other

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

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