

Request a Sample

Customer Specification PART NO. 45522

Construction

				Diameters (In)		
1) Component 1		2 X 1 COND	2 X 1 COND			
a) Conductor		18 (16/30) AWG Tinn	18 (16/30) AWG Tinned Copper		0.047	
b) Insulation		0.032" Wall, Nom. TP	0.032" Wall, Nom. TPE		0.111	
(1) Color Code		Alpha Wire Color Cod	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	2	BROWN			
2) Cable Assembly		2 Components Cable	2 Components Cabled			
a) Twists:		4.8 Twists/foot (min)	4.8 Twists/foot (min)			
b) Orientation:		· ·	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polyester	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25% Ove	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		18 (16/30) AWG Tinn	18 (16/30) AWG Tinned Copper			
b) Braid		Tinned Copper,70% (Tinned Copper,70% Coverage, Min.			
4) Jacket		0.055" Wall, Nom.,TP	0.055" Wall, Nom.,TPE		0.364 (0.382 Max.)	
a) Color(s)		Slate, Black, Yellow, 0	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denier Nyl	on			
c) Print		XTRAGUARD(R) 4 E3 1000V OR (UL) TYPE AWM 20328 105C 600 125C 600V FT1 P-07-	ALPHA WIRE-* P/N 45522 2C 18 AWG XTRAGUARD(R) 4 E324185 (UL) TYPE WTTC 90C DRY 1000V OR (UL) TYPE TC 90C DRY 600V SUN RES OR AWM 20328 105C 600V 18 AWG OR CRU AWM I/II A/B 125C 600V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code			

Applicable Specifications

1) UL	AWM/STYLE 20328	105°C / 600 V _{RMS}
	тс	90°C / 600 V _{RMS}
	WTTC	90°C / 1000 V _{RMS}
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 600 V _{RMS}
	SUN RES (Black only)	
3) Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
4) CE:	EU Low Voltage Directive 2014/35/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):			
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.		
2) REACH Regulation (EC 1907/2006):			
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration.		
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.		

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 Ω/1000ft @20°C, Nominal		
7) OA Shield DCR	2.21 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) Bulk(Made-to-order)		
Notes:		
a) Print legend will contain CSA SUN RES on black cables only.		

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45522

45522, RoHS-Compliant Commencing With 1/20/2017 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

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Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) ,	
Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

Alpha Wire

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