

# **Customer Specification**

# PART NO. 45390/20

#### Construction

						Diameters (In)	
1) Component 1						20 X 1 COND	
a) Conductor						18 (16/30) AWG Tinned Copper	0.047
b) Insulation						0.016" Wall, Nom. TPE	0.079
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	8	YELLOW	15	RED/BLACk		
2	RED	9	VIOLET	16	WHITE/BLA		
3	WHITE	10	SLATE	17	WHITE/REC		
4	GREEN	11	PINK	18	WHITE/GRI		
5	ORANGE	12	TAN	19	WHITE/YEL		
6	BLUE	13	RED/GREEM	20	WHITE/BLL		
7	BROWN	14	RED/YELLC				
2) Cabl	e Assembl	y				20 Components Cabled	
a) Twis	ts:					2.0 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Nonwoven Polyester Tape, 20% Overlap, Min.	
3) Shield:						Alum/Mylar Tape, 20% Overlap, Min.	
a) Foil Direction						Foil Facing In	
b) Drain Wire						18 (16/30) AWG Tinned Copper	
4) Jacket						0.055" Wall, Nom.,TPE	0.534 (0.556 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 45390/20 20C 18 AWG XTRAGUARD(R) 4 (UL) TYPE PLTC 105C SUN RES OR AWM 20237/21918 125C 300 V OR CRU AWM I/II A/B 125C 300 V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code	

#### **Applicable Specifications**

1) UL	AWM/STYLE 20237	125°C / 300 V <sub>RMS</sub>
	PLTC	105°C
	AWM/STYLE 21918	125°C / 300 V <sub>RMS</sub>
	SUN RES	
2) CSA International	C(RU) AWM I/II A/B FT1	125°C / 300 V <sub>RMS</sub>
	SUN RES (Black only)	
3) Other	PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED	
4) CE:	EU Low Voltage Directive 2014/35/EU	

### Environmental

This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
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.
This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

# **Properties**

Physical & Mechanical Properties					
1) Temperature Range	-50 to 125°C				
2) Bend Radius	10X Cable Diameter				
3) Pull Tension	264 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	300 V <sub>RMS</sub>				
2) Capacitance	26 pF/ft @1 kHz, Nominal Conductor to Conductor				
3) Ground Capacitance	47 pF/ft @1 kHz, Nominal				
4) Inductance	0.18 μH/ft, Nominal				
5) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal				
6) OA Shield DCR	5.3 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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#### www.alphawire.com

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Alpha Wire 00045390/20

45390/20000RoHS0000 2014/10/1 000000

DDDD Lead Mercury Cadmium Hexavalent Chromium Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP)

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