



1-800-52-ALPHA

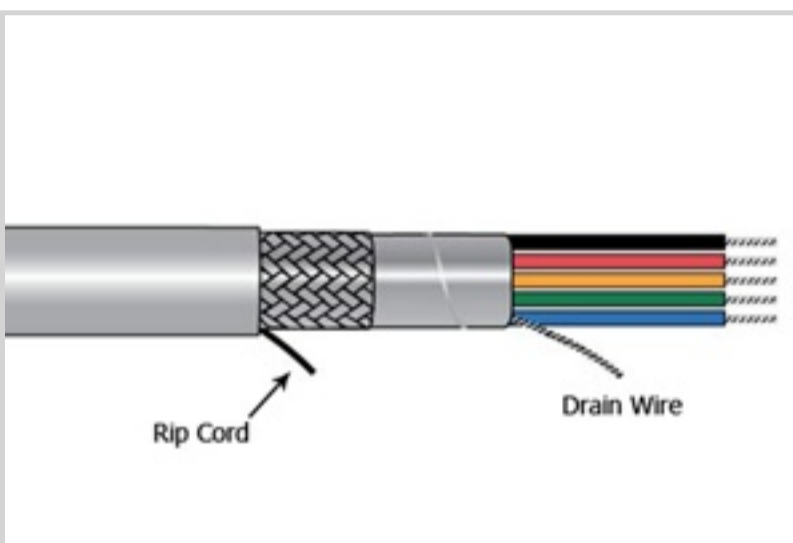
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Part #	Type	Shielding	Voltage	AWG	# of Elements	Jacket Diameter	Applicable Specifications
5110/20C	Conductor	SupraShield (Premium Foil/Braid)	300	22	20	0.359	CA Prop 65, CE, CSA CMG, CSA FT4, IEC 60332-1, IEC 60332-2, UL 60C OIL, UL AWM 10002, UL AWM 2464, UL CM, UL SUN RES, UL VW-1

PART NO. 5110/20C



This picture is representative only and may not match the specific configuration of the product listed on this page. Please refer to the product specifications for more information on this part number and its exact configuration.

A perfect FIT for this product...

FIT® Heat-Shrink Tubing

Whether your concerns are mechanical strain relief, environmental sealing, or organizing wires, Alpha Wire's FIT® heat-shrink tubing is ideal for solving many challenges in electrical and electronic wiring.

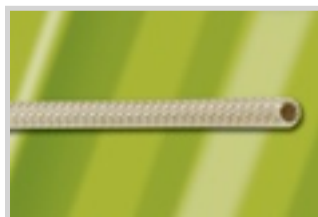


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Managing this product is simple...

FIT® Wire Management

Bringing order to wire harnesses and cable routing means a system that is more reliable, easier to fabricate, and simpler to maintain. Let Alpha Wire help you solve wire management problems.



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Construction

		Diameters (In)			
1) Component 1	20 X 1 COND				
a) Conductor	22 (7/30) AWG Tinned Copper	0.030			
b) Insulation	0.010" Wall, Nom. PVC, Semi Rigid	0.050			
(1) Color Code	Alpha Wire Color Code E				
		Cond	Color	Cond	Color
		1	BLACK	8	VIOLET
		2	BROWN	9	SLATE
		3	RED	10	WHITE
		4	ORANGE	11	WHITE/BLACK
		5	YELLOW	12	WHITE/BROWN
		6	GREEN	13	WHITE/RED
		7	BLUE	14	WHITE/ORANGE
				15	WHITE/YELLOW
				16	WHITE/GREEN
				17	WHITE/BLUE
				18	WHITE/VIOLET
				19	WHITE/SLATE
				20	WHITE/BLACK/BROWN
2) Cable Assembly	20 Components Cabled				
a) Twists:	4.0 Twists/foot (min)				
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:	A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire	22 (7/30) AWG Tinned Copper				
b) Braid	Tinned Copper, 70% Coverage, Min.				
4) Jacket	0.032" Wall, Nom., PVC	0.359 (0.377 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 5110/20C 20C 22 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2464 80C 300V OR AWM 21894 105C 300V SUN RES 60C OIL VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4 CE ROHS (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 21894	105°C / 300 V _{RMS}
	SUN RES	
	60C OIL	
	AWM/STYLE 2464	80°C / 300 V _{RMS}

	CM	105°C
	VW-1	
2) CSA International	CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) CE:	EU Low Voltage Directive 2006/95/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 2011. 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:	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	-35 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	121 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	36 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	65 pf/ft @1 kHz, Nominal
4) Inductance	0.18 µH/ft, Nominal
5) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.8 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk(Made-to-order)	
<i>[Spool dimensions may vary slightly]</i>	

Xtra-Guard® 1 - High performance in a tough PVC cable

- High-performance cable for general-purpose applications
- Features a unique, premium-grade PVC insulation and jacket for Easier routing of cable in small spaces
- Provides resistance to oils per UL Oil Res I (60C OIL RES) and Class 43
- UL SUN RES
- Designed for use in ambient temperatures up to 105 ° C
- Temperature range of -35 ° C to + 105 ° C (SR-PVC) and -30 ° C to + 105 ° C (PVC)
- Provides exceptional protection contre EMI interference When Supra-Shield is specified



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