

Request a Sample

Customer Specification PART NO. 55299/12

Construction

				Diameters (In)		
1) Component 1		12 X 1 PAIR				
a) Conductor		20 (7/28) AWG TC	20 (7/28) AWG TC		0.038	
b) Insulation		0.010" Wall, Nom. FEP		0.058		
(1) Color Code		Alpha Wire Color Code A				
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED	5	BLACK-BROWN	9	RED-WHITE	
2	BLACK-WHITE	6	BLACK-YELLOW	10	RED-BLUE	
3	BLACK-GREEN	7	BLACK-ORANGE	11	RED-YELLOW	
4	BLACK-BLUE	8	RED-GREEN	12	RED-BROWN	
c) Pair		2/Cond Cabled Togetl	2/Cond Cabled Together			
(1) Twists:		8.0 Twists/foot (min)	8.0 Twists/foot (min)			
2) Cable Assembly		12 Components Cabled				
a) Twists:		2.1 Twists/foot (min)				
b) Core Wrap		PTFE(skived) Tape, 25% Overlap, Min.				
3) Shield:		A/P/A Tape, 25% Overlap, Min.				
a) Drain Wire		20 (7/28) AWG TC				
b) Braid		TC,70% Coverage, Min.				
4) Jacket		0.027" Wall, Nom.,FEP		0.483 (0.505 Max.)		
a) Tint Color(s)		Natural Tan, Slate, Black, Yellow, Orange, Blue, Green, Red, White				
b) Ripcord		Para-Aramid fiber(Kevlar, Twaron or equal)				
c) Marker Tape		ALPHA WIRE-* XTRAGUARD(R) 5 - 20 AWG SHIELDED 150C (UL) CMP OR AWM 20229 LLXXXXXX CSA CMP FT6 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

1) UL	СМР	150°C
	AWM/STYLE 20229	150°C / 300 V _{RMS}
2) CSA International	СМР	150°C
	FT6	
3) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

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	-80 to 200°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	227 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	15.6 pf/ft @1 kHz, Nominal	
3) Ground Capacitance	28 pf/ft @1 kHz, Nominal	
4) Characteristic Impedance	93 Ω	
5) Inductance	0.17 μH/ft, Nominal	
6) Conductor DCR	10.4 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	1.6 Ω/1000ft @20°C, Nominal	

Other

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

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207

Tel: 1-800-52 ALPHA (25742)

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 55299/12

55299/12, RoHS-Compliant Commencing With 8/1/2005 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **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 11364-2006.

SubstanceMaximum Control ValueLead0.1% by weight (1000 ppm)Mercury0.1% by weight (1000 ppm)Cadmium0.01% by weight (100 ppm)Hexavalent Chromium0.1% 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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

Alpha Wire

711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 8/6/2015