

Customer Specification

PART NO. 55489/12

Construction

						Diameters (In)	
1) Component 1						12 X 1 PAIR	
a) Conductor						22 (7/30) AWG Tinned Copper	0.030
a) Conductor b) Insulation						0.010" Wall, Nom. FEP	0.050
<u> </u>	olor Code					Alpha Wire Color Code A	
	Color	Pair	Color	Pair	Color		J
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) Pai	ir					2/Cond Cabled Together	
(1) Tv	vists:					8.0 Twists/foot (min)	
2) Ca	ble Assembly					12 Components Cabled	
a) Tw	vists:					2.4 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Co	re Wrap					PTFE(skived) Tape, 25% Overlap, Min.	
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Fo	il Direction					Foil Facing In	
b) Drain Wire						22 (7/30) AWG Tinned Copper	
4) Jac	cket					0.027" Wall, Nom.,FEP	0.407 (0.429 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 - 22 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	CMP	150°C
	FT6	
3) CE:	EU Low Voltage Directive 2014/35/EU	
	-	,

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	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.
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.
3) California Proposition 65:	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	-80 to 200°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	137 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	14.9 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	27 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	99 Ω	
5) Inductance	0.18 μH/ft, Nominal	
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	6.2 Ω/1000ft @20°C, Nominal	

Other

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

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 55489/12

55489/12, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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 4/1/2025

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000