

Customer Specification

PART NO. 45544

Construction

						Diameter	s (In)
1) Component 1 4 X 1 COND		1 COND					
a) Conductor 14 (41/30) AW		41/30) AWG	Tinned Copper			0.073	
b) Insulation 0.032" Wall, No		32" Wall, Nor	n. TPE			0.137	
(1) Color Code Alpha Wire Colo			or Code E			`	
Cond	Color		Cond	Color	Con		Color
1	BLACK		3	RED			
2	BROWN		4	ORANGE			
2) Cable Assembly	4 C	omponents (Cabled		·		·
a) Twists:	2.5	Twists/foot (min)				
b) Orientation: Components to		be arranged from INSIDE LAYER to OUTSIDE LAYER					
c) Core Wrap Nonwoven Poly		ester Tape, 20% Overlap, Min.					
3) Shield: A/P/A Tape, 209		6 Overlap, Min.					
a) Drain Wire 14 (41/30) AWO		G Tinned Copper					
b) Braid Tinned Copper		ned Copper, 7	r,70% Coverage, Nom.				
4) Jacket 0.		0.055" Wall, Nom.,TPE				0.473 (0.49	93 Max.)
a) Color(s)	Slat	e, Black, Yell	ow, Orange, Blue,	, Green, Red, Sand Beige,	White		
b) Ripcord	1 E	nd 810 Denie	r Nylon				
c) Print	XTF 100 OR OR CE	AGUARD(R) 0V OR (UL) T AWM 20238	YPE TC 90C DRY 105C 600V 14 AV III A/B 125C 600V OOTAGE)	YPE WTTC 90C DRY 600V SUN RES WG			

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) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

1) CE: EU Directive 2011/65/E	U(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 190	
	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	-50 to 125°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	168 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600/1000 V _{RMS}	
2) Capacitance	22.3 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	40 pF/ft @1 kHz, Nominal	
4) Inductance	0.19 μH/ft, Nominal	
5) Conductor DCR	2.8 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	1.38 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.		

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. ©2024 ALPHA WIRE - all rights reserved.



EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45544

45544, RoHS-Compliant Commencing With 1/20/2017 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials is fully compliant with Directive 2011/65/ Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipr 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with U definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this protein this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. Additionally, Alpha c RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006. This product is also in compliance w

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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the digeneral guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legisl product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/1/2024

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