

Customer Specification

PART NO. 45440/2

Construction

					Diameter	rs (In)
1) Component 1	2 X 1 COND	2 X 1 COND				
a) Conductor	16 (19/.0117) A	16 (19/.0117) AWG Tinned Copper			0.059	
b) Insulation	0.032" Wall, No	0.032" Wall, Nom. TPE			0.123	
(1) Color Code	Alpha Wire Col	Alpha Wire Color Code E				
Cond	Color	Cond	Color	Co	ond	Color
1	BLACK	2	BROWN			
2) Cable Assembly	2 Components	Cabled	·	<u>'</u>		·
a) Twists:	3.4 Twists/foot	3.4 Twists/foot (min)				
b) Orientation:	Components to	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	Nonwoven Pol	Nonwoven Polyester Tape, 25% Overlap, Min.				
3) Shield:	Alum/Mylar Ta	Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing In	Foil Facing In				
b) Drain Wire	16 (19/.0117) A	16 (19/.0117) AWG Tinned Copper				
4) Jacket	0.055" Wall, No	0.055" Wall, Nom.,TPE 0.364 (0.382 Max			882 Max.)	
a) Color(s)	Slate, Black, Ye	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White				
b) Ripcord	1 End 810 Deni	1 End 810 Denier Nylon				
c) Print	XTRAGUARD(R 1000V OR (UL) AWM 20328 10	TYPE TC 90C DRY 05C 600V 16 AWG P-07-KA140023-N FOOTAGE)	YPE WTTC 90C DRY 600V SUN RES OR OR CRU AWM I/II A/B			

Applicable Specifications

1) UL	AWM/STYLE 20328	105°C / 600 V _{RMS}
	TC	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) 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 Exemption 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	61 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600/1000 V _{RMS}	
2) Capacitance	21.5 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	39 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	73 Ω	
5) Inductance	0.2 μH/ft, Nominal	
6) Conductor DCR	4.3 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	3.8 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: 45440/2

45440/2, 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 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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general 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 of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/2/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-908-925-8000