

Customer Specification

PART NO. 6452

Construction

				Diameters (In)	
1) Component 1		1 X 1 PAIR			
a) Conductor		22 (19/34) AWG TC		0.030	
b) Insulation		0.021" Wall, Nom. PVC		0.072	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED				
Individually Applied:					
c) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out			
2) Component 2		1 X 1 PAIR			
a) Conductor		24 (19/36) AWG TC		0.025	
b) Insulation		0.026" Wall, Nom. Foam HDPE		0.077	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLUE-WHITE				
Individually Applied:					
c) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out			
3) Cable Assembly		2 Components Cabled			
a) Twists:		4.0 Twists/foot (min)			
4) Shield		TC BRAID Shield,65% Coverage, Min.			
a) Drain Wire		22 (19/34) AWG TC			
5) Jacket		0.033" Wall, Nom.,PVC		0.280+/- 0.015	
a) Color(s)		SLATE			
b) Jacket Separator		Clear Mylar Tape, 25% Overlap, Min.			
c) Print		ALPHA WIRE P/N 6452 DEVICENET THIN --- 1PR22 1PR24 SHIELDED (UL) EXXXXX CL2 OR CMG 75C OR AWM 600V OR C(UL) CMG OR AWM I/II A 80C 300V --- FT4 SUN RES OIL RES CE ROHS (1 METER MARKING,---METER---) [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL	CL2	75°C
	SUN RES	75°C
	CMG	75°C
	AWM/STYLE 20201	60°C / 600 V _{RMS}
	OIL RES I	
2) CSA International	C(UL) TYPE CMG	75°C
	AWM I/II A	80°C / 300 V _{RMS}
	FT4	
3) Other	ODVA CLASS 2 THIN	
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 .

Properties

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Physical & Mechanical Properties	
1) Temperature Range	-20 to 75°C(static), 0 to 80°C (dynamic)
2) Bend Radius	10X Cable Diameter
3) Pull Tension	29 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Component 1	
a) Inductance	0.221 µH/ft, Nominal
b) Conductor DCR	17.5 Ω/1000ft @20°C, Nominal
c) Current	2.4 amps per conductor @30°C, Maximum
3) Component 2	
a) Characteristic Impedance	120 Ω +/- 12
b) Inductance	0.251 µH/ft, Nominal
c) Mutual Capacitance	12 pf/ft @1 kHz, Nominal
d) Velocity of Propagation	75 %
e) Conductor DCR	28 Ω/1000ft @20°C, Nominal
f) Current	1.7 amps per conductor @30°C, Maximum
g) Attenuation, Max dB/100ft	0.29 @ 125 kHz
	0.5 @ 500 kHz
	0.7 @ 1 MHz
4) OA Shield DCR	3.2 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	16 x 11 x 8 Continuous length
b) 500 FT	12 x 10 x 5 Continuous length
c) 100 FT	12 x 4.5 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6452

6452, RoHS-Compliant Commencing With 7/1/2008 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

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)

Maximum Control Value

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 4/28/2024

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