

Request a Sample

Customer Specification PART NO. 6451

Construction

Construction				<u> </u>		
		<u> </u>		Diameters (In)		
1) Component 1			1 X 1 PAIR			
a) Conductor		15 (19/.0135) AWG TO	15 (19/.0135) AWG TC		0.067	
b) Insulation		0.021" Wall, Nom. PV	0.021" Wall, Nom. PVC		0.109	
(1) Color(s)						
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED					
Individually Applied:						
c) Shield:		Alum/Mylar Tape, 25%	Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out				
2) Component 2		1 X 1 PAIR	1 X 1 PAIR			
a) Conductor		18 (19/30) AWG TC	18 (19/30) AWG TC		0.049	
b) Insulation		0.053" Wall, Nom. Foa	0.053" Wall, Nom. Foam HDPE		0.150	
(1) Color(s)						
Pair	Color	Pair	Color	Pair	Color	
1	BLUE-WHITE					
Individually Applied:						
c) Shield:		Alum/Mylar Tape, 25%	Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out	Foil Facing Out			
3) Cable Assembly		2 Components Cableo	2 Components Cabled			
a) Twists:		2.4 Twists/foot (min)	2.4 Twists/foot (min)			
4) Shield		TC BRAID Shield,65%	TC BRAID Shield,65% Coverage, Min.			
a) Drain Wire		18 (19/30) AWG TC	18 (19/30) AWG TC			
5) Jacket		0.060" Wall, Nom.,PV	0.060" Wall, Nom.,PVC		0.480+/- 0.015	
a) Color(s) SLATE						
b) Print		DEVICENET TM THICK EXXXXX CMG 75C OF 20201 600V C(UL) CM FT4 OIL RES CE R (1 METER MARKING,	ALPHA WIRE P/N 6451 DEVICENET TM THICK 1PR16 1PR18 SHIELDED (UL) EXXXXX CMG 75C OR PLTC-ER SUN RES OR AWM 20201 600V C(UL) CMG OR AWM I/II A 80C 300V FT4 OIL RES CE ROHS (1 METER MARKING,METER) [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

1) UL	PLTC	75°C
	SUN RES	75°C
	СМС	75°C
	AWM/STYLE 20201	60°C / 600 V _{RMS}
	EXPOSED RUN	
2) CSA International	C(UL) TYPE CMG	75°C
	AWM I/II A	80°C / 300 V _{RMS}
	FT4	
3) Other	ODVA CLASS 2 THICK	
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

1 100011100				
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	104 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Component 1				
a) Inductance	0.174 μH/ft, Nominal			
b) Conductor DCR	3.6 Ω/1000ft @20°C, Nominal			
c) Current	8 amps per conductor @30°C, Maximum			
3) Component 2				
a) Characteristic Impedance	120 Ω +/- 12			
b) Inductance	0.258 μH/ft, Nominal			
c) Mutual Capacitance	12 pf/ft @1 kHz, Nominal			
d) Velocity of Propagation	75 %			
e) Conductor DCR	6.9 Ω/1000ft @20°C, Nominal			
f) OA Shield DCR	1.8 Ω/1000ft @20°C, Nominal			
g) Current	5 amps per conductor @30°C, Maximum			
h) Attenuation, Max dB/100ft	0.13 @ 125 kHz			
	0.25 @ 500 kHz			
	0.36 @ 1 MHz			

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 12 x 8 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
	[Spool dimensions may vary slightly]

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6451

6451, RoHS-Compliant Commencing With 7/1/2008 Production

Note: all colors and put-ups

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 (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) 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.

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 & QA

Alpha Wire

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