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□□□ **74004**

## Construction

						Diameter ("in")	
1) Component 1						4 x 1 PAIR	
a) Conductor						26 (7/34) AWG Bare Copper	
b) Insulation						0.0118" Wall, Nom. Polyethylene, Foam-Skin	
(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color		
1	WHITE - BLUE	3	WHITE - GREEN				
2	WHITE - ORANGE	4	WHITE - BROWN				
c) Pair						2/Cond Cabled Together	
(1) Twists						Staggered Lays	
Individually Applied:							
d) Shield						Alum/Mylar Tape, 25% Overlap (min.)	
(1) Foil Direction						Foil Facing Out	
2) Cable Assembly						4 Components Cabled	
a) Twists						4.4 Twists/ft. (min.)	
3) Shield						Tinned Copper BRAID Shield, 65% Coverage (min.)	
4) Jacket						0.028" Wall, Nom., TPU (ZH)	
a) Color(s)						BLACK	
b) Print						ALPHA WIRE-* P/N 74004 4PR 26 AWG INDUSTRIAL ETHERNET SHIELDED ANSI/TIA-568-C.2 CAT7 VERIFIED FT2 CE ROHS (SEQ FOOTAGE) * = Factory Code	
						0.268 (0.283 max.)	

## Applicable Specifications

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1) CSA International	FT2	
2) IEC	EN 60811-2-1 Oil Resistance	
	EN 60754-2 Acid Gas Generation	
3) Other	ANSI/TIA-568-C.2 Category 7	
	ISO/IEC 11801 Category 7	
	EN 50173-1	
4) CE	EU Low Voltage Directive 2014/35/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 and the amending Directive 2015/863/EU of 4 June 2015 . No exemptions are required for RoHS Compliance on this item. Refer to the <a href="#">RoHS Certificate of Compliance</a> for more detail.
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 <a href="#">REACH SVHC Declaration</a> .

## Properties

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<b>Physical &amp; Mechanical Properties</b>				
1) Temperature Range		-40 to 80°C		
2) Bend Radius		5X Cable Diameter (static), 10X Cable Diameter (dynamic)		
3) Pull Tension		18 lbs. max.		
<b>Electrical Properties</b>		<i>Engineering purposes only</i>		
1) Max. operating voltage UL		300 V <sub>RMS</sub>		
2) Dielectric strength cond. – cond. (2 sec.)		2.5kVdc		
3) D.C. resistance conductor		< 140 ω/km		
4) Resistance unbalance		< 2%		
5) D.C. insulation resistance		> 5000 Mω.km		
6) Mutual capacitance		< 56 nF/km		
7) Capacitance unbalance		< 1600 pF/km		
8) Velocity of propagation		≥ 70%		
9) Skew @ 100 MHz		≤ 40 ns/100m		
10) Propagation delay		≤ 534 + 36/√f ns/100m		
11) Mean characteristic impedance (Zcm) @ 100 MHz		100 ± 15 ω		
12) Input impedance 1-600MHz		100 ± 15 ω		
13) Transfer Impedance (Zt) @ 10 MHz		< 5 mOhm/m		
Frequency(MHz)	Max. Attenuation(dB/100m)	Min. NEXT(dB)	Min. PS-NEXT(dB)	Min. ELFEXT(dB/100m)
1	2.7	80	77	-
4	5.5	80	77	58
10	8.5	80	77	50
16	10.8	80	77	46
20	12.1	80	77	44
31.25	15.2	80	77	40
62.5	27.8	75.1	72.1	34
100	27.8	72.4	69.4	30
200	40.1	67.9	64.9	24
300	50	65.3	62.3	20
600	73.3	60.8	57.8	14

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 500 FT	12 x 6 x 3.5 Continuous Length
	<i>Spool dimensions may vary slightly.</i>

[www.alphawire.com](http://www.alphawire.com)

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