

## **Customer Specification**

### **PART NO. 74004**

#### Construction

						Diameter ("in")	
1) Component 1						4 x 1 PAIR	
a) Conductor						26 (7/34) AWG Bare Copper	0.019
b) Insulation						0.0118" Wall, Nom. Polyethylene, Foam-Skin	0.042
(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) Tv	vists					Staggered Lays	
Indivi	dually Applied:						
d) Shield						Alum/Mylar Tape, 25% Overlap (min.)	
(1) Fo	il 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)	0.268 (0.283 max.)
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	

#### **Applicable Specifications**

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 2011and the amending Directive 2015/863/EU of 4 June 2015 . No exemptions are required for RoHS Compliance on this item. Refer to the <u>RoHS</u> <u>Certificate of Compliance</u> 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 <u>REACH SVHC Declaration</u> .

# Properties

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	Physical & Mecha	nical Prop	erties		
1) Temperature R	lange		-40 to 80°C		
2) Bend Radius			5X Cable Diameter (static), 10X Cable Diameter (dynamic)		
3) Pull Tension			18 lbs. max.		
	Electrical P	roperties	Engineering purposes only		
1) Max. operating	g voltage UL		300 V <sub>RMS</sub>		
2) Dielectric strer	igth cond. – cond. (2 sec	c.)			2.5kVdc
3) D.C. resistance	conductor				< 140 ω/km
4) Resistance unb	balance				< 2%
5) D.C. insulation	resistance				> 5000 Mω.km
6) Mutual capacit	ance				< 56 nF/km
7) Capacitance ur	nbalance				< 1600 pF/km
8) Velocity of pro	pagation				≥ 70%
9) Skew @ 100 N	IHz				≤ 40 ns/100m
10) Propagation	delay				≤ 534 + 36/√f ns/100m
11) Mean charact	eristic impedance (Zcm)	) @ 100 MI	Hz		100 ± 15 ω
12) Input impeda	nce 1-600MHz				100 ± 15 ω
13) Transfer Impe	edance (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

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

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Alpha Wire DDDD74004

74004000RoHS0000 2013/9/30 000000

DDDD Lead Mercury Cadmium Hexavalent Chromium Polybrominated Biphenyls (PBB) Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Disobutyl phthalate (DIBP)

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2025/9/13