

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) 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)	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

Physical & Mechanical Properties				
1) Temperature Range			-40 to 80°C	
2) Bend Radius			5X Cable Diameter (static), 10X Cable Diameter (dynamic)	
3) Pull Tension			18 lbs. max.	
Electrical Properties			Engineering purposes only	
1) Max. operating voltage UL			300 V _{RMS}	
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

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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Lead	□□□□□□□□□□0.1% (1000 ppm)
Mercury	□□□□□□□□□□0.1% (1000 ppm)
Cadmium	□□□□□□□□□□0.01% (100 ppm)
Hexavalent Chromium	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Biphenyls (PBB)	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	□□□□□□□□□□0.1% (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	□□□□□□□□□□0.1% (1000 ppm)
Butyl benzyl phthalate (BBP)	□□□□□□□□□□0.1% (1000 ppm)
Dibutyl phthalate (DBP)	□□□□□□□□□□0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	□□□□□□□□□□0.1% (1000 ppm)

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