

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 74004
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Issue: 3
Issue Date: 6/21/2018
Effective Date: 6/21/2018

A. Construction

Diameters (In)

- | | | | |
|----|---------------|---|-------|
| 1) | Component 1 | 4 X 1 PAIR | |
| | a) Conductor | 26 (7/34) AWG Bare Copper | 0.019 |
| | b) Insulation | 0.012" Wall, Nom. Polyethylene, Foam-Skin | 0.043 |
| | (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, 20% Overlap, Min. | |
| | (1) Foil Direction | Foil Facing Out | |
| 2) | Cable Assembly | 4 Components Cabled | |
| 3) | Shield | Tinned Copper BRAID Shield, 65% Coverage, Min. | |
| 4) | Jacket | 0.028" Wall, Nom., Polyurethane, Zero Halogen (ZH) | 0.268 (0.276 Max.) |
| | a) Color(s) | BLACK | |
| | b) Print | ALPHA WIRE-H P/N 74004 4PR 26 AWG
INDUSTRIAL ETHERNET SHIELDED ANSI/TIA-568-C.2
CAT7 VERIFIED FT2 CE ROHS (SEQ FOOTAGE) | |

B. Applicable Specifications

- | | | | |
|----|-------------------|--|----------------------------|
| 1) | UL | AWM/STYLE 21292 | 80°C / 30 V _{RMS} |
| 2) | CSA International | FT2 | |
| 3) | IEC | IEC 60811-2-1 Oil Resistance
IEC 60754-1 Halogen Free | |
| 4) | Other | ISO/IEC 11801 Category 7
EN 50173-1 | |
| 5) | CE: | EU Low Voltage Directive 2014/35/EC | |

C. Environmental Compliance

- | | | |
|----|----------------------------------|---|
| 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 . |

D. Physical & Mechanical Properties

- | | | |
|----|-------------------|--|
| 1) | Temperature Range | -40 to 80°C (static), -40 to 80°C (dynamic) |
| 2) | Bend Radius | 5X Cable Diameter(static), 10X Cable Diameter(dynamic) |
| 3) | Pull Tension | 18 Lbs, Maximum |

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- E. Electrical Properties** (For Engineering purposes only)
- | | |
|---|-----------------------|
| Max. operating voltage UL | 300 V rms |
| Dielectric strength cond. – cond. (2 sec.) | 2.5kVdc |
| D.C. resistance conductor | <145 Ω/km |
| Resistance unbalance | < 2% |
| D.C. insulation resistance | > 5000 MΩ.km |
| Mutual capacitance | < 56 nF/km |
| Capacitance unbalance | < 1600 pF/km |
| Velocity of propagation | ≥ 70% |
| Skew @ 100 MHz | ≤ 40 ns/100m |
| Propagation delay | ≤ 534 + 36/√f ns/100m |
| Mean characteristic impedance (Zcm) @ 100 MHz | 100 ± 5 Ω |
| Input impedance 1-600MHz | 100 ± 15 Ω |
| Transfer Impedance (Z _T) @ 10 MHz | < 5 mOhm/m |

Frequency (MHz)	Max. Insertion Loss (dB/100m)	Min. NEXT (dB)	Min. PS-NEXT (dB)	Min. ELFEXT (dB/100m)	Min. PS-ELFEXT (dB/100m)	Min. Return Loss (dB)
1	2.7	80	77			
4	5.5	80	77	58	55	23
10	8.5	80	77	50	47	25
16	10.8	80	77	46	43	25
20	12.1	80	77	44	41	25
31.25	15.2	80	77	40	37	23.6
62.5	27.8	75.1	72.1	34	31	21.5
100	27.8	72.4	69.4	30	27	20.1
200	40.1	67.9	64.9	24	21	18
300	50	65.3	62.3	20	17	17.3
600	73.3	60.8	57.8	14	11	17.3

- F. Other**
- | | |
|--------------|---|
| 1) Packaging | Flange (mm) |
| a) 500 FT | 260 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |

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