

Customer Specification

PART NO. 7602F

Construction

						Diameters (In)	
1) Component 1						1 X 4 PAIR	
a) Conductor						24 (7/32) AWG Copper Alloy	0.024
b) Insulation						0.011" Wall, Nom. Polyplefin(PO)	0.046
(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color		
1	BLUE - WHITE/BLUE	3	GREEN - WHITE/GREEN				
2	ORANGE - WHITE/ORANGE	4	BROWN - WHITE/BROWN				
c) Pair						2/Cond Cabled Together	
(1) Twists:						13.7 Twists/foot (approx.)	
d) Cabling						4 PAIR Cabled	
(1) Twists:						3.0 Twists/foot (min)	
e) Jacket						0.020" Wall, Nom.,TPE	0.254 (0.268 Max.)
(1) Color(s)						WHITE	
2) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing Out	
b) Braid						Tinned Copper,85% Coverage, Min.	
3) Jacket						0.030" Wall, Nom.,TPE	0.342 (0.364 Max.)
a) Color(s)						BLACK	
b) Ripcord						1300 1/E NATURAL POLYESTER	
c) Print						ALPHA WIRE-* P/N 7602F 4PR 24 AWG CONTINUOUS FLEX INDUSTRIAL ETHERNET (UL) C(UL) TYPE CM 75C FT1 ANSI/TIA-568-C.2 CAT5E PATCH VERIFIED CE ROHS (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

Applicable Specifications

Physical & Mechanical Properties	
1) Temperature Range	-40 to 80°C(static), -10 to 80°C (dynamic)
2) Bend Radius	8X Cable Diameter(static), 10X Cable Diameter(dynamic)
3) Pull Tension	40 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Cable Weight	60 Lbs/1000Ft
6) Flex Life	10,000,000 Cycles
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	100 Ω +/- 15
3) Mutual Capacitance	15 pf/ft
4) Velocity of Propagation	69 %
5) Conductor DCR	11 Ω/100m Max
6) Skew	45 NS/100m Max
7) Pair to Ground Unbalance	330 pf/100m Max
8) DC Unbalance of a Pair	5% Max
9) Insertion Loss	2.5 (Max dB/100m) @ 1 MHz
	4.9 (Max dB/100m) @ 4 MHz
	6.9 (Max dB/100m) @ 8 MHz
	7.8 (Max dB/100m) @ 10 MHz
	9.9 (Max dB/100m) @ 16 MHz
	11.1 (Max dB/100m) @ 20 MHz
	12.5 (Max dB/100m) @ 25 MHz
	14.1 (Max dB/100m) @ 31.25 MHz
	20.4 (Max dB/100m) @ 62.5 MHz
	26.4 (Max dB/100m) @ 100 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 7602F

7602F, RoHS-Compliant Commencing With 9/30/2013 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance

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)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 6/10/2024

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