

Customer Specification

PART NO. 76010

Construction

						Diameters (In)	
1) Component 1						4 X 1 PAIR	
a) Conductor						24 (SOLID) AWG BC	0.021
b) Insulation						0.008" Wall, Nom. Polypropylene (PP)	0.036
(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color		
1	BLU - WHT/BLU	2	ORG - WHT/ORG	3	GRN- WHT/GRN		
4	BRN - WHT/BRN						
c) Pair						2/Cond Cabled Together	
(1) Lay Length:						Various Lay	
2) Cable Assembly						4 Components Bunch Cabled	
a) Twists:						2.4 Twists/foot	
3) Jacket						0.035" Wall, Nom.,TPE	0.257 Avg. (0.264 Max.)
a) Color(s)						BLACK, RED	
b) Ripcord						Nylon	
c) Print						ALPHA WIRE-* P/N 76010 4PR 24 AWG XTRAGUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE CMR 75C FT4 ANSI/TIA-568-C.2 CAT5E CE ROHS (SEQUENTIAL FOOTAGE MARKING) * = Factory Code	

Applicable Specifications

1) UL	CMR	75°C
	FT4	
2) CSA International	C(UL) TYPE CMR	75°C
	FT4	
3) CE:	EU Low Voltage Directive 2014/35/EU	

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. 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 .

Properties

Physical & Mechanical Properties	
1) Temperature Range	-50 to 75°C
2) Bend Radius	4X Cable Diameter
3) Pull Tension	25.0 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	100 ω +/- 15
3) Mutual Capacitance	5.6 nf/100m Max
4) Velocity of Propagation	70 % Nom.
5) Conductor DCR	9.38 ω /100m @20°C, 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, Max dB/100m	2.4 @ 1 MHz
	4.9 @ 4 MHz
	6.9 @ 8 MHz
	7.8 @ 10 MHz
	9.9 @ 16 MHz
	11.1 @ 20 MHz
	12.5 @ 25 MHz
	14.1 @ 31.25 MHz
	20.4 @ 62.5 MHz
	26.4 @ 100 MHz

Other

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Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	15.25 x 8 x 8 Continuous length
b) 500 FT	12.5 x 9 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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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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