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Construction

						Diameters (In)	
1) Component 1						2 X 1 PAIR	
a) Conductor						24 (SOLID) AWG BC	
b) Insulation						0.011" Wall, Nom. FEP	
(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color		
1	BLU - WHT/BLU	2	ORG - WHT/ORG				
c) Pair						2/Cond Cabled Together	
(1) Lay Length:						Various Lay	
2) Cable Assembly						2 Components Bunch Cabled	
a) Twists:						3.0 Twists/foot	
b) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:						A/P/A Tape, 25% Overlap, Min.	
a) Drain Wire						26 (SOLID) AWG TC	
b) Braid						TC, 70% Coverage, Min.	
4) Jacket						0.035" Wall, Nom., TPE	
a) Color(s)						BLACK, RED	
b) Ripcord						Nylon	
c) Print						ALPHA WIRE-* P/N 75002 2PR 24 AWG XTRAGUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE CMR 105C FT4 ANSI/TIA-568-C.2 CAT5E VERIFIED CE ROHS (SEQUENTIAL FOOTAGE MARKING) * = Factory Code	

Applicable Specifications

1) UL	CMR	105°C
	FT4	
2) CSA International	C(UL) TYPE CMR	105°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 105°C
2) Bend Radius	8X Cable Diameter
3) Pull Tension	20.2 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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