承認書
Product Specification REV.A
客戶名稱: Ubiqconn Technology Inc. CUSTOMER
 適用機種:Tomcat APPLICATION
廠 商: Ethertronics Inc.
客户料號:21-93024-01 PART NUMBER
Ethertronics 料號: 5001135 PART NUMBER
承認日期:April, 2013 APPROVAL DATE
提供者簽章: Mandy Chen PROVIDER BY
● 審核者簽章: Lynn Chiu REVIEW BY
承認人簽章:Tony Chang APPROVE BY
ethertronics [®]
 美商伊索泰克電子有限公司臺灣分公司 115 臺北市南港區園區街3號二樓之七(南港軟體工業園區G棟) Ethertronics Inc. (Building G) 2F-7, No. 3, Yuanqu St., Nangang District, Taipei City 115, Taiwan (R.O.C) Tel: 886-2-2655-7966 Fax: 886-2-2655-7967 分 機: 340

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Revision History

Rev. A Initial Product Specification.

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1. Purpose and Scope

The purpose of this document is to establish a design specification for the antenna product that Ethertronics is developing for the wireless AP. Any changes or additions to this specification can affect schedule, cost or the product and should be negotiated between Ethertronics and Ubiqconn before being incorporated into the specification. Upon agreement of this specification, Ethertronics will make no changes without the written approval from Ubiqconn. Any changes requested by Ubiqconn will be given to Ethertronics with sufficient time to evaluate the cost impact and reach as required.

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2. Abbreviations and Definitions

AVG	Average
0	Degree
°C	Celsius (degrees Centigrade)
cm	Centimeter
G	Gravitational Force
g	Grams
Hz	Hertz
In	Inches
IQC	Incoming Quality Control
MHz	Megahertz
m	Meter
mm	Millimeter
Ν	Newton
PCB	Printed Circuit Board
TX	Transmit Band
RH	Relative Humidity
RX	Receive Band
VSWR	Voltage Standing Wave Ratio
W	Watt

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3. Electrical Specification For

3.1 Frequency Band

Mode	Frequency Band (MHz)
802.11 b/g	2400 ~ 2500
802.11 a	5150 ~ 5850

3.2 Electrical Characteristics

3.2.1 Peak gain & Avg gain

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Product Specification Part Number : 5001135 Rev. A

3.2.1 Peak gain & Avg gain

Tomcat	WL	AN1
Freq.[MHz]	Avg.[dBi]	Peak[dBi]
2400	-2.2	2.04
2450	-2.04	2.07
2500	-2.26	2.33
5150	-1.93	3.01
5350	-1.9	2.34
5470	-2.47	2.23
5725	-2.41	1.4
5850	-3.52	0.67

Tomcat	WL	AN2
Freq.[MHz]	Avg.[dBi]	Peak[dBi]
2400	-3.28	1.71
2450	-2.57	2.74
2500	-3.29	1.72
5150	-1.68	3.72
5350	-1.78	3.61
5470	-2.39	2.94
5725	-1.84	2.98
5850	-2.51	2.28

Tomcat	G	PS
Freq.[MHz]	Avg.[dBi]	Peak[dBi]
1565	-2.42	1.19
1575	-2.34	1.37
1585	-2.3	1.37
1596	-2.72	1.05
1602	-2.96	0.81
1607	-2.92	0.73

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Cable Spec

SPECIFICATION FOR APPROVAL

STYLE : HIGH FREQUENCY COAXIAL CABLE

105°C 30V

SIZE : 32AWG

BRAID: TD

APPROVAL MARK : UL 1979

PART NO. : A3132LC001

Customer Approval:

WONDERFUL PHOTOELECTRICITY (DONGGUAN) CO., LTD.

LONGYAN INDUSTRIAL AREA, HUMEN, DONGGUAN CITY, GUANGDONG, CHINA TEL: +86-769-88620666 FAX: +86-769-88627081

	Approval	Confirm	Maker
	Leiquanzhi	Lizhichen	Cherry
E	DITION: 1.0	DAT	E: 2009.11.23
T	OTAL 3 PAGE NO.1	REV	ISED DATE:

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Cable Spec

WONDERFUL PHOTOELECTRICITY (DONGGUAN) CO.,LTD.

Specific	ation						
Style	105%	30V Coaxial Cable					
Size	32AV	WG	Part No.:A3132LC001				
Standar	d:	1					
		Size	32AWG				
		Construction	7/0.080±0.005mm				
Conduc	tor	Diameter	0.24 mm				
		Material	Tinned Copper				
Insulation		Material	FEP				
		Average Thickness	0.22 mm				
insulatio	on	Diameter	0.70 ±0.05 mm				
		Color Clear					
		Material	Tinned Copper				
Braid		Construction	16/4/0.050 mm				
		Coverage rate	88.0 %				
		Material	FEP				
		Average Thickness	0.11 mm				
Jacket		Diameter	1.13 ±0.08 mm				
		Color	According To Custom				
		Marking: No Marking					

	Approval	Confirm	Maker
	Leiquanzhi	Lizhichen	Cherry
E	DITION: 1.0	DAT	E: 2009.11.23
T	OTAL 3 PAGE NO.2	REVI	SED DATE:

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Cable Spec

WONDERFUL PHOTOELECTRICITY (DONGGUAN) CO., LTD.

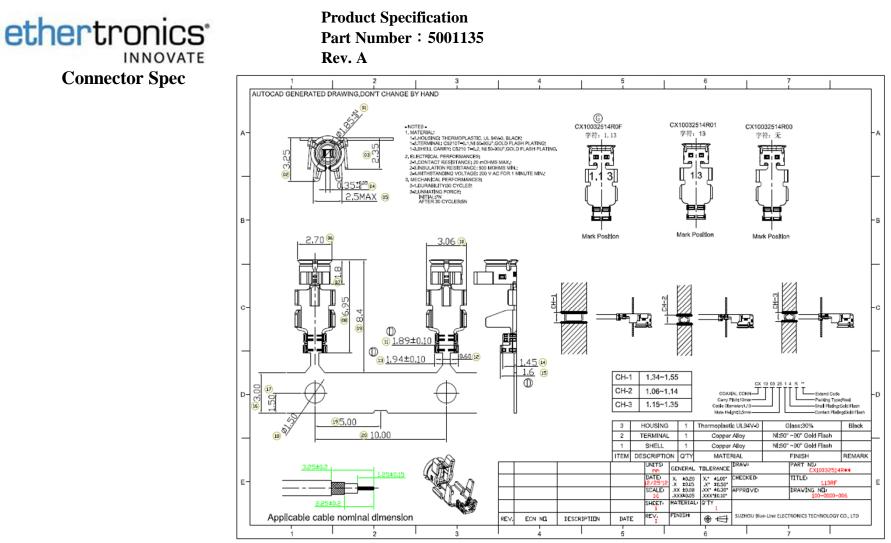
Electrical & Ph	ysical Propert	ies			Part No	A3132LC001
Item Size				32AWG		
Rating Temp Ve	oltage			105°C 30V		
Conductor Resi	stance			545 OHM/KM/	20°C Max.	
Insulation Resis	stance			1000 MEGA O	HM.KM Min.	
Dielectric Stren	ıgth			500V AC For 1	Minute	
Spark Test				2500 V		
	Unaged	Ter	isile Strength	2500 PSI Min. ((1.76Kg/mm ²)	
Insulation	omgeu	Elc	ongation	200% MIN.		
	Aged	Ter	isile Strength	Unaged 75% U	naged (232 ±1.0°C	×168 H) Min
		Ele	ongation	Unaged 75% U	naged (232 ±1.0°C	×168 H) Min.
	Unaged	Ter	isile Strength	2500PSI Min.		
Jacket	-	Elc	ongation	200% Min.		
	Aged	Ter	nsile Strength	Unaged 75% Unaged (232 ±1.0°C ×168 H) Min.		
	-	Ele	ngation	Unaged 75% Un	naged (232 ±1.0°C	×168 H) Min.
Flame Test				VW-1 OK		
Nom. Impedan	ce			50 ±5 Ohms		
Nom. Capacita	nce			96.0 ±3 Pf/m		
Nom. Vel. Of P	rop			69%		
VSWR (0-6GH	z)			Under 1.3		
Attenuation	2.0 GH	z	2.4 GHZ	2.5 GHZ	5.0 GHZ	6.0 GHZ
(dB/lm)	3.05		3.30	3.38	5.05	6.00
Drawing :				_,l		
)		

Approval	Confirm	Maker	
Leiquanzhi	Lizhichen	Cherry	
DITION: 1.0			
OTAL3 PAGE NO.3	REVISED DATE:		

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