

APPROVAL SHEET

CLEVO CO.

MODEL : M300N WLAN

DESCRIPTION :

FVC P/N : 0C02WFM24001

CUSTOMER P/N : 23-724R4-A70-1

FILE P/N :

DATE : 12.Mar. , 2003

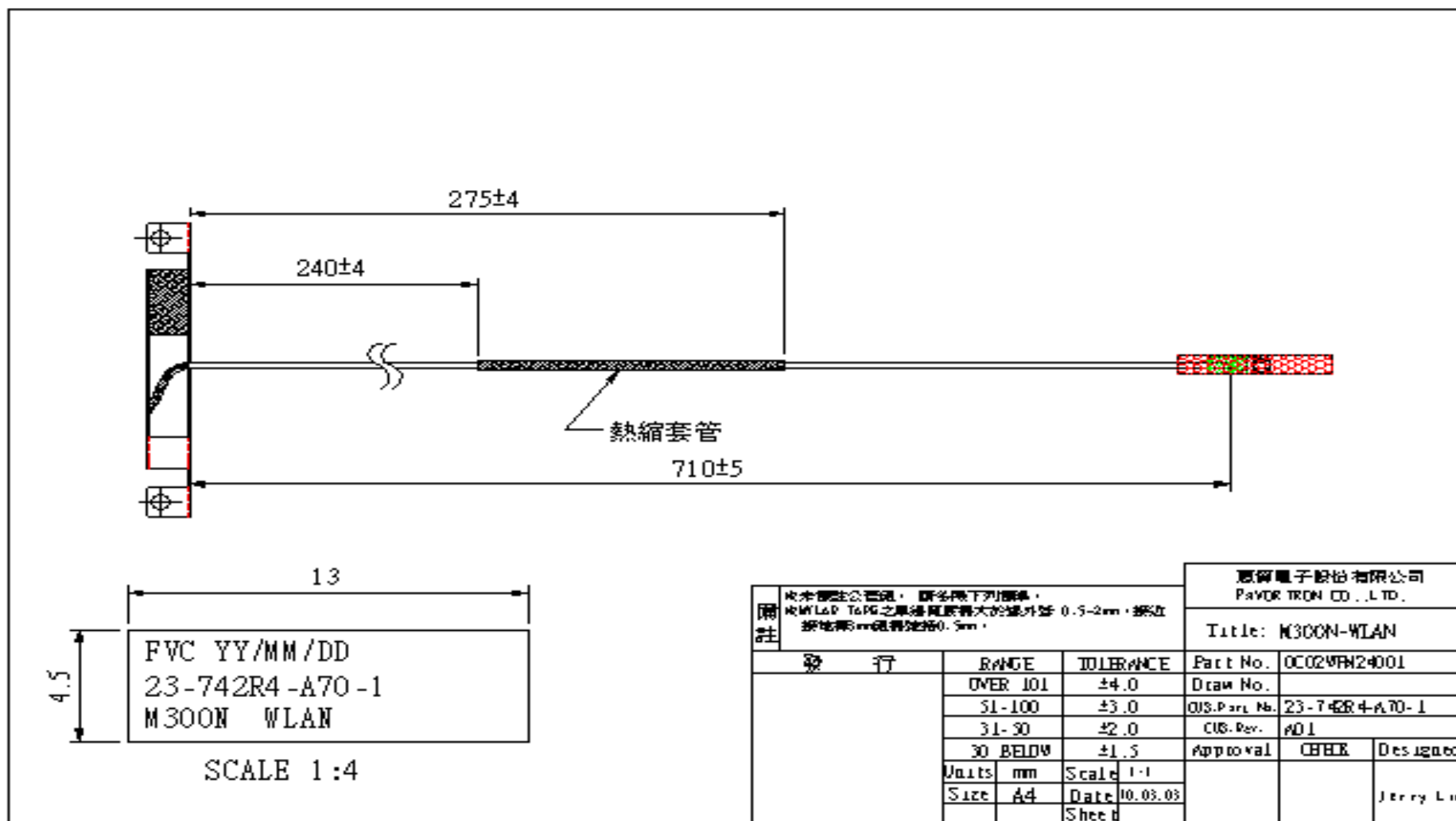
Manager	Chief	Engineer

Check	Responser



台北縣中和市中正路 866 號 17F TEL: (02) 8227-5669
17nd F, no. 866, Zhong Zheng Rd., FAX: (02) 8227-5667
Zhong He City, Taipei Hsien, Taiwan R.O.C

(一) 成品圖&BOM 表：WLAN



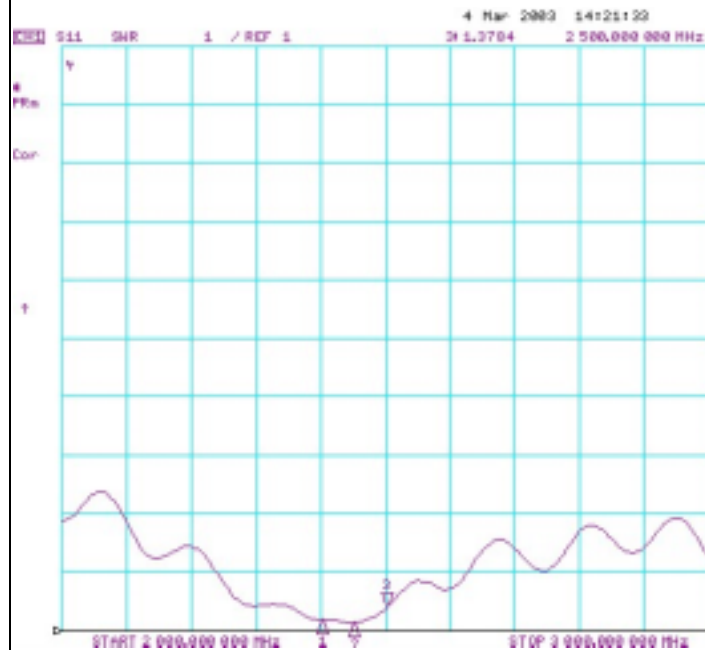
成品
BOM

B O M					
ITEM	COMPONENT	Q'TY	DESCRIPTION	FAVORTRON P/N	REMARK
1	KURUBE+I-PEX 接頭	1	741mm(含conn長度), 黑色	308021	
2	SPONGE	1	長11mm,寬3mm,高5mm	332033	
3	熱縮套管	1	長40mm,寬0.16mm	342054	
4	α100-αlonits (pifa)	1	長47.5mm,寬5mm,高5.5mm	321066	
5	LABEL	1	4.5x13mm 白色	407022	
6	熱縮套管	1	2.5x0.25x20mm	342059	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

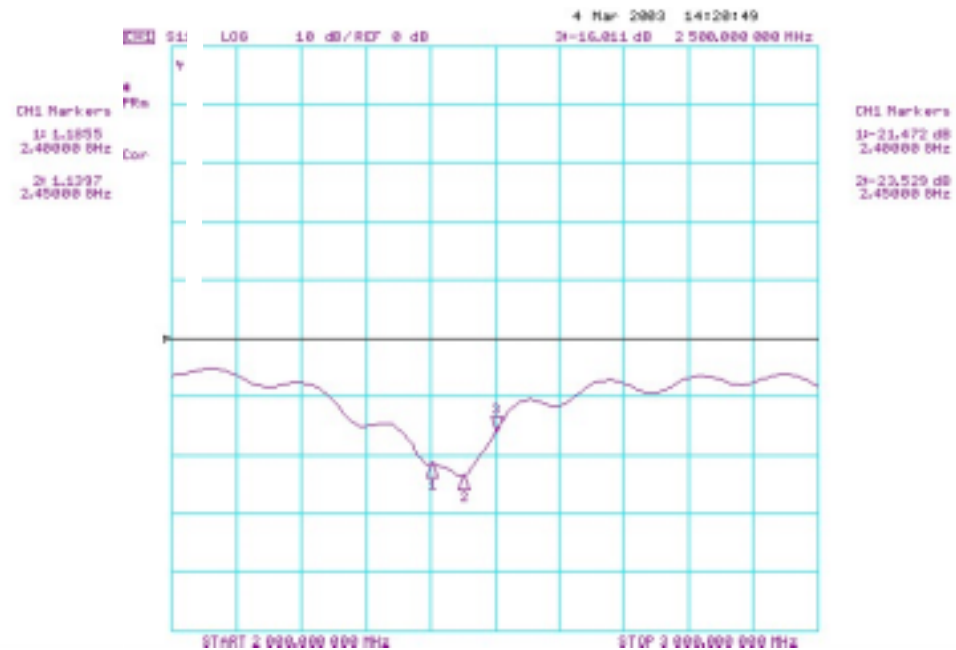
惠寶電子股份有限公司 FAVORTRON CO., LTD.		
Title: M300N WIAN BOM 表		
Part No.	00024MPC24001	
Draw No.		
CUS. Part No.	23-742R4-A70-1	
CUS. Rev.	A01	
Approval	CHECK	Designed
		Jerry Lin
Date	02.03.10	Sheet 1/1

1. Free Space 天線電氣特性(Antenna Electricity Characteristics)： M300N WLAN

VSWR



Return Loss



惠貿電子股份有限公司
FAVORTRON CO. LTD

P/N : 0C02WFM24001

Frequency Band : 2.4 2.5GHz

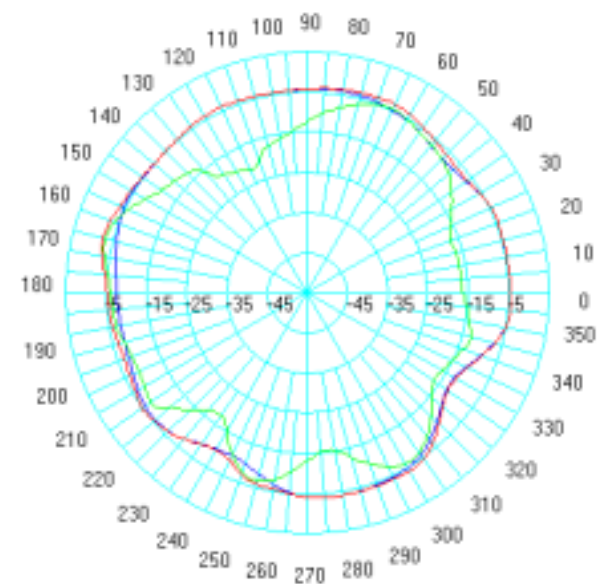
Date : 11.Mar .2003

(二)1. Free Space 天線輻射場形 M300N WLAN :

Antenna	Gain of XY Plane(Azimuth)-open		
	Frequency		2.45G
<u>WLAN PIFA</u>	H	Peak	-3.77
		Average	-6.22
<u>WLAN PIFA</u>	V	Peak	-2.95
		Average	-11.36
<u>WLAN PIFA</u>	H+V	Peak	-2.42
		Average	-5.49
		%>-5dBi	54.29%

Radiation Pattern of **XY Plane(Azimuth)-open**

— H-polarized — V- polarized — H+V- polarized



惠貿電子股份有限公司
FAVORTRON CO. LTD

Testing Condition : 在無反射隔離室中 ,
以遠場距離進行測試

Frequency Band : 2.4 ~2.5GHz

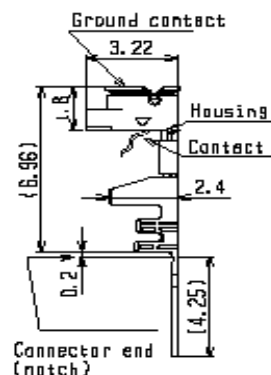
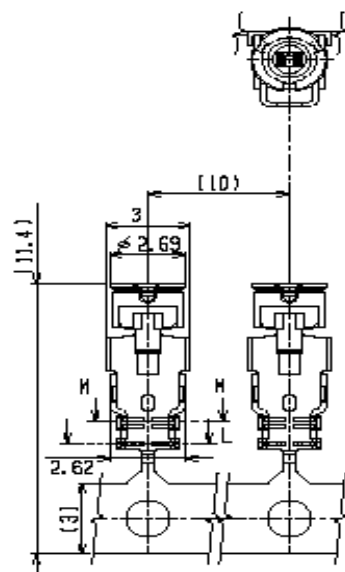
Date : 11.Mar.2003

三、 SPECIFICATIONS:

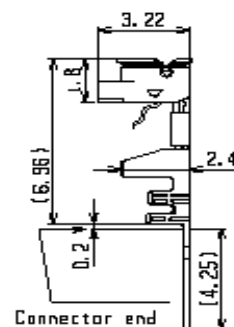
- Electrical Properties

Frequency Range	: 2.4~2.5GHz
Impedance	: 50Ohms nominal
VSWR	: 2.0
Peak Gain	: -5.0dBi peak gain 3dBi

PART NO.
20278-**-H-**-



Part No. 20278-101R-**-
For hand tool
(with notch)



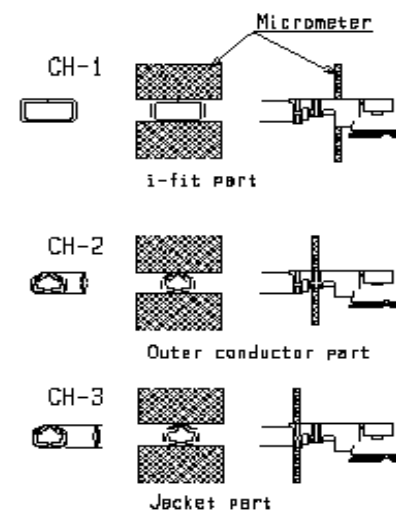
Part No. 20278-111R-**-
For semi auto
termination machine
(without notch)

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

FORM REV. 4

					4	Z2029	K.O	JAN/30/02	E.K	DESIGN'D BY	DATE	I-PEX Interconnect and Packaging Electronics TOKYO, JAPAN	TITLE HF series micro coaxial connector plug vertical	SCALE UNIT DWG. No. B-1 mm 20278	SHEET REV. 1/3 68			
					3	Z1256	K.O	NOV/14/01	K.K	K. Ohbayashi	JUN/13/01							
					2	Z1197	K.O	AUG/27/01	K.K	CHK'D BY	DATE							
					1	Z1118	K.O	JUN/26/01	K.K	APP'D BY	DATE							
					0	Z1109	K.O	JUN/13/01	K.K	K. Katobuchi	JUN/13/01							
68	Z2146	K.O	JUN/24/02	K.K	REV	ECN	BY	DATE	APP	CUSTOMER PROJECTION COPY								
58	Z2117	A.H	MAY/17/02	K.K	REV. RECORD													
REV	ECN	BY	DATE	APP	SERIES No. 2814													

Part No.	20278-101R-08 20278-111R-08	20278-101R-13 20278-111R-13	20278-101R-32 20278-111R-32	20278-101R-18 20278-111R-18
Applicable cable nominal dimension	2.09±0.1 1.36±0.1 1.16±0.1	1.55±0.1 0.82±0.1 1.7±0.1	2.09±0.1 1.36±0.1 1.16±0.1	2.09±0.1 1.36±0.1 1.16±0.1
Jacket Outer conductor silver or tin plating Dielectric core Inner conductor silver plating				
Braided shield of Outer conductor 外導体の編組	Single / 16	Single / 16	Double / 26	Single / 16
P/N of hand Tool P/N of semi auto termination machine	<Under developing>	90187-019 90213-019	<Under developing>	<Under developing>
Sect. M-M				
Sect. L-L				
Crimp Height	CH-1	Under developing	1.34~1.40	Under developing
	CH-2	Under developing	1.06~1.14	Under developing
	CH-3	Under developing	1.15~1.35	Under developing



Crimp Height

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

FORM REV.4

WAS T

DESIGN'D BY	DATE	I-PEX Interconnect and Packaging Electronics TOKYO, JAPAN	
CHK'D BY	DATE		
APP'D BY	DATE		
CUSTOMER COPY	PROJECTION	SCALE 6/1	UNIT mm
		DWG. No. 20278	SHEET 2/3
		REV. 68	

Notes

1. Material

- (1) Housing : PBT , UL94V-0 , black
- (2) Contact
phosphor bronze
gold plating
- (3) Ground contact
phosphor bronze , gold plating

2. Packing : reel

3. Mating partner part No.
: 20279-001E-01

1. 材 料

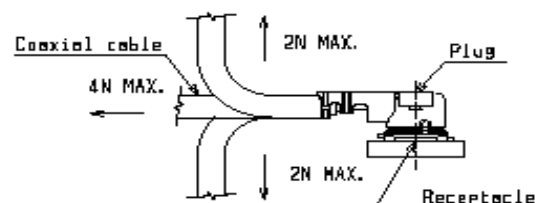
- (1) ハウジング: PBT, UL94V-0, 黒色
- (2) コンタクト
: 銅
: 金メッキ
- (3) グランドコンタクト
: りん青銅, 金メッキ

2. 梱包 : リール

3. かん合相手 part No.
: 20279-001E-01

4. Permissible load of cable at mating

コネクタかん合後のケーブルに対する荷重



5. Suggestions for mating & unmating operation.

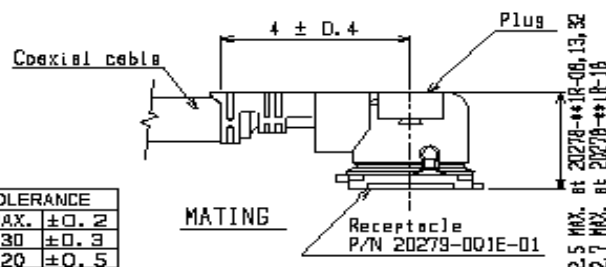
5. コネクタかん合時および抜去時の注意

5-1 Mating.

Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle. As excessive slant angle mating may break the connector, please don't do it.

5-1 コネクタ挿入時

PlugとReceptacleのかん合軸を合わせ、できるだけ垂直に挿入して下さい。極端な斜め挿入は行わないで下さい。コネクタ破損の原因となりますので、過度なこじり挿入は行わないで下さい。



GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

FORM REV. 4

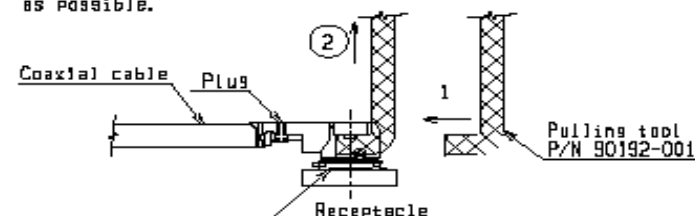
WAS T

5-2 Unmating.

5-2 コネクタ抜去時

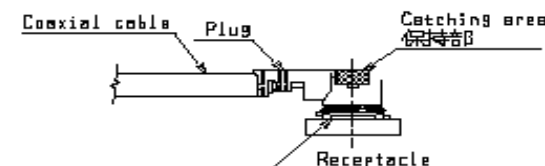
- (1) In case of unmating by pulling tool.
Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.

- (1) 抜きジブを用いる場合
下図のようにできるだけ垂直に引き抜いて下さい。



- (2) In case of unmating directly by hand
Please catch the catching area of plug, and please pull plug to vertical direction as directly as possible.

- (2) 手で直接抜き抜く場合
下図の保持部をつかみ、できるだけ垂直に引き抜いて下さい。



DESIGN'D BY	DATE		Interconnect and Packages Electronics TOKYO, JAPAN	
CHK'D BY	DATE			
APP'D BY	DATE			
CUSTOMER COPY	PROJECTION	SCALE	UNIT	REV.
		-/-	mm	68
		TITLE		SHEET
		MF series micro coaxial connector plug vertical		3/3
		DWS. No.		
		20278		

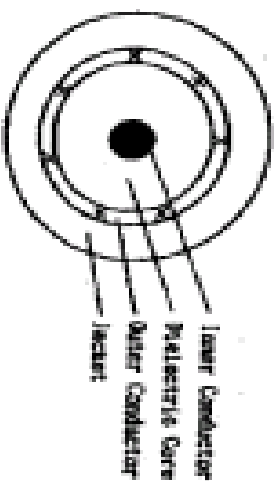
MUS 61-1

1. SCOPE

This specification covers Cable Radio Frequency, RF-87M18, which is product of MISSEI ELECTRIC CO., LTD.

2. CONSTRUCTION, MATERIALS AND DIMENSIONS

2.1 Construction



2.2 Materials and dimensions

Materials and dimensions of this cable is shown as Table-1.

3. PERFORMANCE OF THE CABLE

3.1 Testing of cable

Performance of the cable is examined and tested in accordance with the test method as listed in Table-2.

4. QUALITY ASSURANCE

4.1 MISSEI Electric Company fully guarantees the quality of this cable.

Every lot produced are processed and inspected with best available technical skill.

4.2 Quality conformance inspection

Every lot produced shall be examined and tested for items 1 thru 10 of Table-2.

5. PACKAGING AND MARKING

5.1 Packaging

Unless otherwise indicated in the contract, packaging shall be made per good commercial practices.

5.2 Marking

Each coil shall be marked with the following information.

1. Description
2. Length
3. Date of Manufacture
4. Lot Number
5. Name of Manufacturer

(Note)

1. The modification or addition of this specification is acceptable.



The Specified values of this specification is changed over different usage environments and method of use.

Table-1. Description

No.	Components	Material	Construction	Diameter
1	Inner Conductor	Silver-Coated Annealed Copper Wire	7/0.08	0.24mm (nominal)
2	Dielectric Core	PDP	Thickness 0.23mm(nominal)	0.66±0.04mm -0.02
3	Outer Conductor	Silver-Coated Annealed Copper Wire	16/4/0.05	0.93mm(nominal)
4	Jacket	PDP * Standard color is Gray	Thickness 0.10mm(nominal)	1.13±0.06mm -0.05

Table-2. Requirements

PART	No.	TEST ITEM	PERFORMANCE	TEST CONDITIONING
Inner Conductor	1	Stranding	See Table-1.	Visual
	2	Material	See Table-1.	Visual
	3	Diameter of Wire	See Table-1.	
Dielectric Core	4	Conductor Resistance (at 20°C)	Less than 520Ω/km	Double Bridge
	5	Diameter of Core	See Table-1.	
	6	Spark Test	No breakdown at AC 4000V for 0.15sec.	Spark Tester
Outer Conductor	7	Material of Strands	See Table-1.	Visual
	8	Construction	See Table-1.	Visual
	9	Overall Diameter	See Table-1.	
Finished cable	10	Dielectric Withstand Voltage	No breakdown at AC 500V for 1min.	Outer Conductor to Inner Conductor
	11	Insulation Resistance (at 20°C)	More than 1500Ω • km	High Insulation Resistance Meters
	12	Characteristic Impedance	50±2 ohms	TDR Method
	13	Capacitance	97pF/m (nominal)	Capacitance Meter



華友材料科技股份有限公司
Sumi-Pac Corp.

應用高分子部事業部

化學部化學製造課第1課 課長

9, 281 Chong Huan (San Road) Section 4

Taipei, Taiwan, R.O.C.

TEL:02-2716-2800 FAX:02-2716-2881

TO: MRS.

DEC. 20, 2000

MATERIAL CERTIFICATION

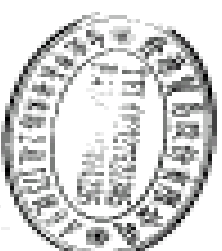
WE CERTIFY HEREBY THAT SUMITRE, MANUFACTURED BY " SUMIPAC CORPORATION ", DOES NOT CONTAIN ANY OZONE-DEPLETED MATERIALS, AND NEVER CONTACT OPG DURING MANUFACTURING PROCESS. BESIDES, SUMITRE FOR CONFORM TO THE REQUIREMENT CONCERNING TOXICITY AS BELOW.

NAME OF PRODUCTS	SUMITRE FOR	
MATERIAL GENERIC NAME	IRADIATION GRAFTED HEAT-SHRINKABLE POLYOLIFIN TUBING (UL & CSA, IZOD/IMPACT, V50,1 RATING)	
MANUFACTURER	SUMIPAC CORPORATION	
TOXICITY	SUMITRE FOR CONTAINS FREE OF THE FOLLOWING MATERIALS: 1.IONIC HEAVY METAL 2. BIOOXIDIZED MATERIAL AS BELOW:	
	SOL. BARIUM (BA)	PPHOS
	SOL. LEAD (PB)	PIBOS
	SOL. CUPRUM (CU)	PHOS
	SOL. ANTIMONY (SB)	
	SOL. SILENIUM (SE)	
	SOL. CHROMIUM (CR)	
	SOL. NICKEL (NI)	
	SOL. ARSENIC (AS)	
	SOL. AMMONIUM	


HSI-LING FUL

MANAGER

SUMIPAC CORPORATION



Y08VJ2 July 20, 1994
Component - Extruded Tubing, Electrical
SUNTOMO ELECTRIC INDUSTRIES LTD
IRRADIATED PRODUCTS DIV

E48762 (S)
ID--cont. from B send

Irradiated flexible heat shrinkable polypropy.					
Suntube F32	400	125	1	+	Yes
429 or	400	125	1	+	Yes
Suntube B2					
Suntube F5	400	125	1	+	Yes
428 or	400	105	1	+	Yes
Suntube F97					
440 or	400	125	1	+	Yes
Suntube P305					
442 or	200	125	1	+	Yes
Suntube F425					
444 or S4412	400	125	1	+	Yes
453 or S453	400	125	1	+	Yes
424 or	400	105	1	+	Yes
Suntube F775					

Report February 18, 1973.

Replaces E48762C dated June 21, 1994.
200129001 N028 Underwriters Laboratories Inc.*

Revs. on D send
014501043