

京廣科技股份有限公司

承 認 書

SPECIFICATION FOR APPROVE

客 戶	旭隆科技股份有限公司
CUSTOMER	
產品名稱	DIPOLE ANTENNA
DESCRIPTION	
料 號	GAT2-GIS15B, 3907-001230
PART NO.	
日 期	2003/10/06
DATE	

DESIGNER		DIRECTOR	
SIGNATURE		SIGNATURE	

客戶簽認

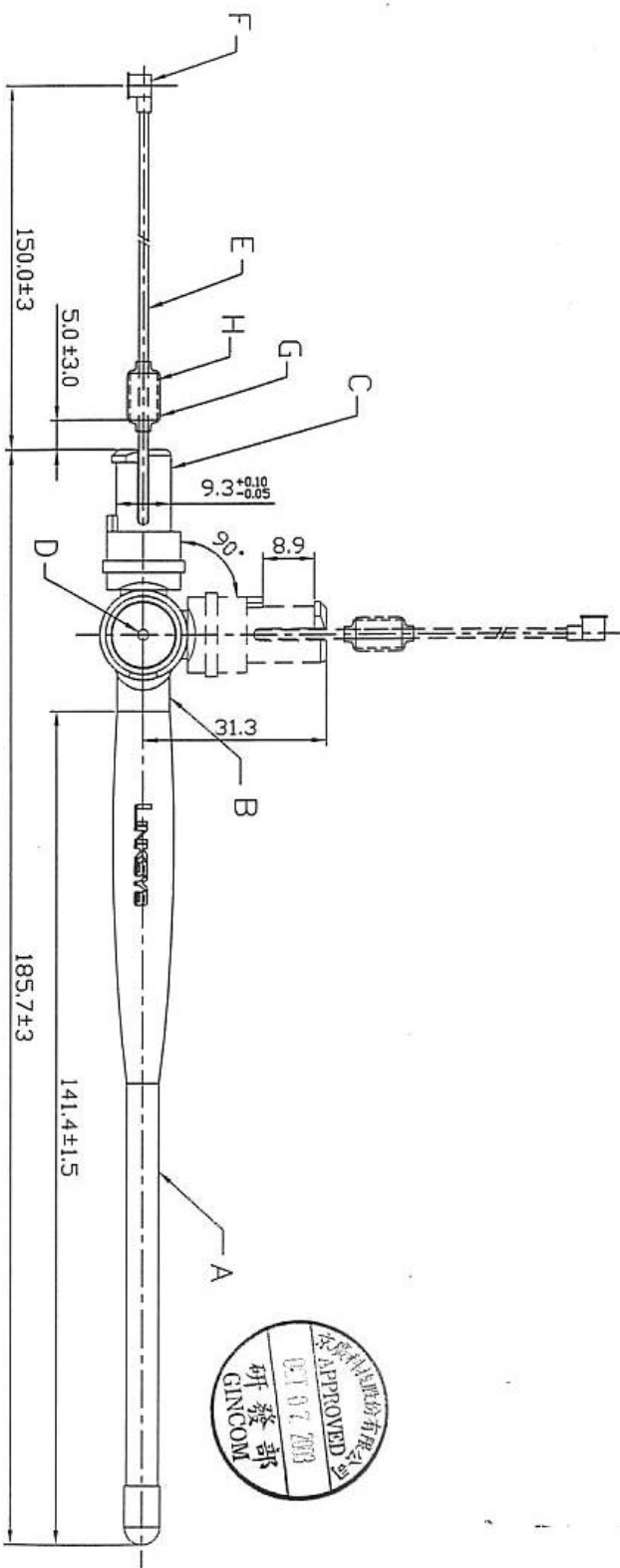


桃園市三民路三段284號15F 統一編號：13042931

15F., No. 284, Sec. 3, Sanmin Rd., Taoyuan, Taiwan 330, R.O.C.

TEL：886-3-3364686 FAX：886-3-3330608 www.gincom.com.tw

No.	名 稱 (NAME)	外觀 (FINISH)	材質 (MAT'L)	數 量 (QTY)
A	頂 蓋 (ANT. SHIELD)	黑 (BLCAK)	TPEE	01
B	上殼結構 (MIDRING BSC. RING)	黑 (BLCAK)	ABS	01
C	下殼結構 (MIDRING BSC. DM)	黑 (BLCAK)	ABS+PC	01
D	定位銷 (PIN)	鍍黑鎳 (PLATED Cr)	銅 (BRASS)	02
E	φ1.13 (CABLE)	灰 (GRAY)	特氟龍 (TEFLON)	01
F	IPEX CONNECTOR	鍍金 (ELECTRO-GILDING)	銅 (BRASS)	01
G	熱縮套管 (Heat Shrink Tube Flange)	黑 (BLCAK)	PVC	01
H	線芯 (CORE)	黑 (BLCAK)		01



Gincom 京廣科技股份有限公司 Gincom technology Co.,Ltd		DESIGNED BY: Charles BT	DATE: 07.24/2003	CHECKED BY: Tim	DATE: 07.24/2003	APPROVED BY: 莊育偉	DATE: 07.24/2003	PART NO.:	REV.:	BASIC RANGE:	0-30	30-120	120-200	200-300
THESE DRAWINGS AND SPECIFICATION ARE THE PROPERTY OF GINCOM CO., LTD. AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SELL OF APPARATUS OR DEVICES WITHOUT PERMISSION.		THREE ANGLE PROJECTION	SCALE: 1	UNIT: M/M	USED ON: GAT2-GIS15B	DWG NAME: 外觀圖	DWG NO: 03038B37	REV. 00	XX	±0.3	±0.4	±0.5	±0.6	
								A4	XXXX	±0.1	±0.2	±0.4	±0.6	
								SIZE	ANGULAR DIMS. ± 0.5 °	±0.05	±0.1	±0.15	±0.25	

GAT2-GIS15B

● Specifications

Frequency Range	2.4~2.5GHz
Impedance	50 Ohms nominal
VSWR	≤ 2
Gain	3.5dBi
Radiation	Omni
Polarization	Vertical
Antenna Cover	Polyurethane
Swivel Mechanism	Polycarbonate
Operation Temperature	-20°C~+65°C
Storage Temperature	-30°C~+75°C

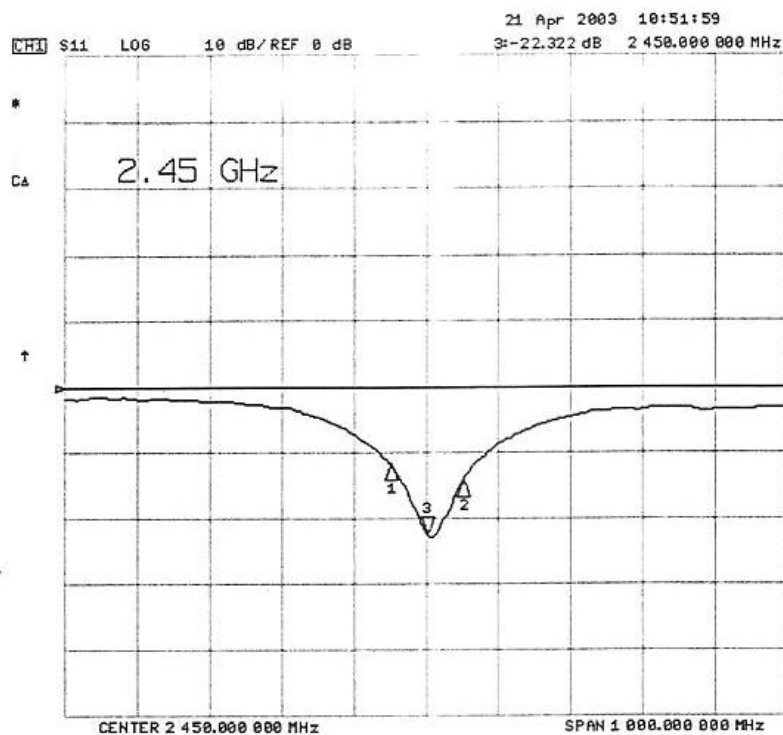


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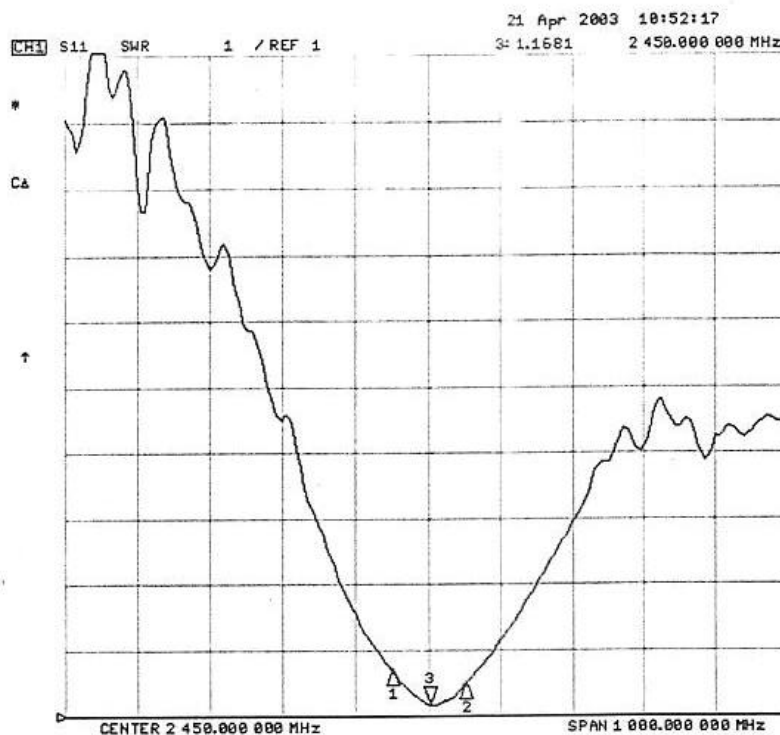
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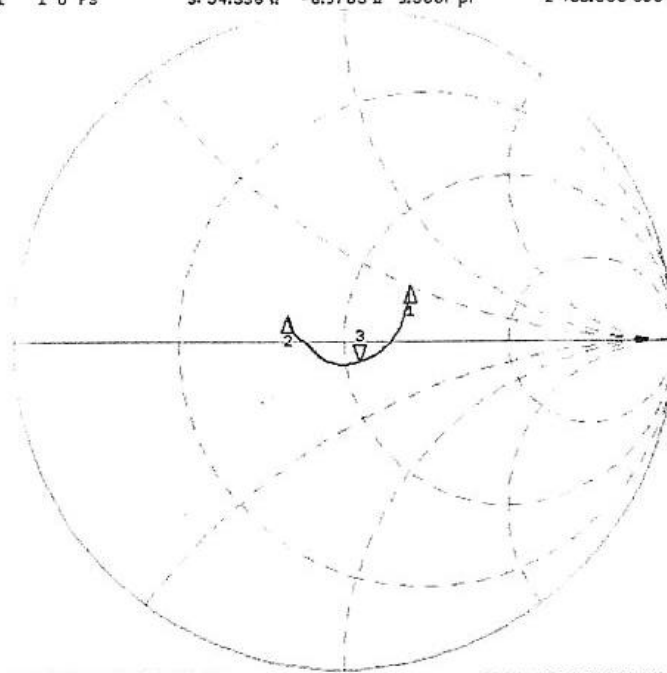
Gincom Technology Corp.

21 Apr 2003 10:52:57
 [CH1] S11 1 U FS 3: 54.336 Ω -6.9785 Ω 9.3087 pF 2 450.000 000 MHz

*

Cd

†



CENTER 2 450.000 000 MHz

SPAN 100.000 000 MHz

CH1 Markers

1: 69.895 Ω
 24.500 Ω
 2.40000 GHz
 2: 34.759 Ω
 5.2266 Ω
 2.50000 GHz



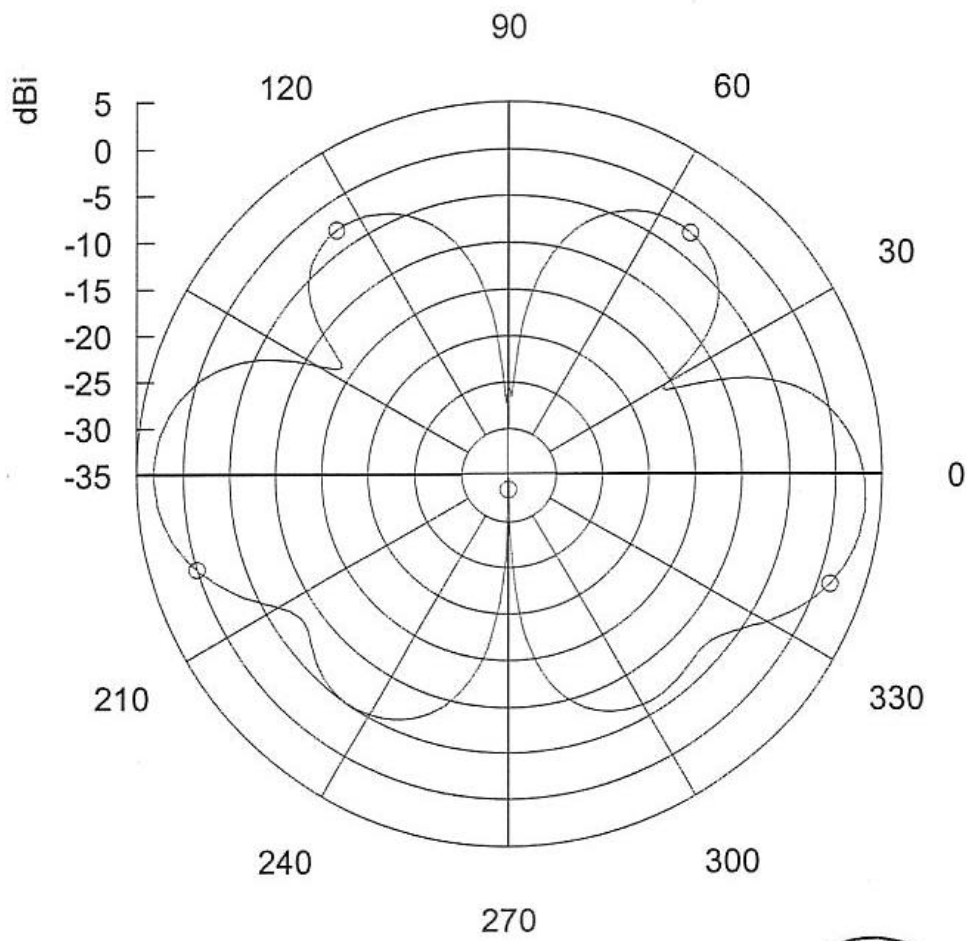
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Horizontal



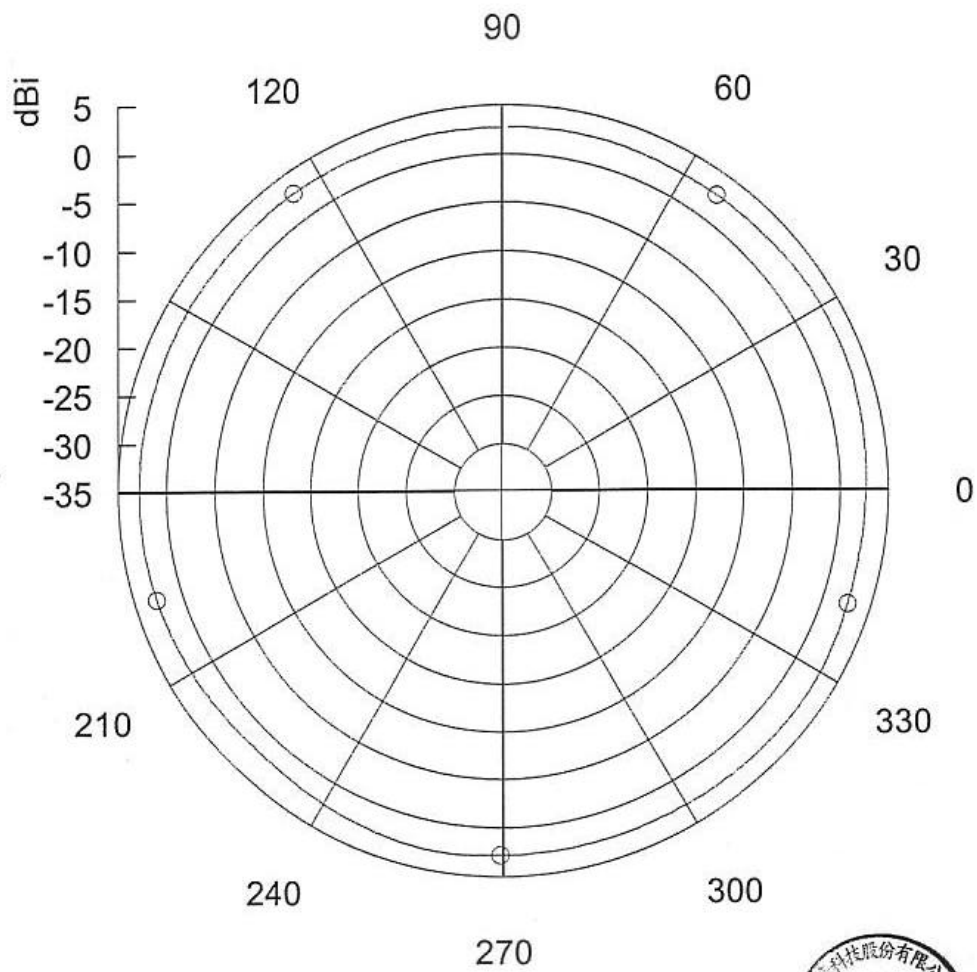
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Vertical



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Gincom—Technology Corp.

Notes

1. Receptacle
 - (1) Housing: PBT, UL94V-0, black
 - (2) Contact
 - ①: 90° contact
 - ②: 90° contact
 - ③: 90° contact
 - ④: 90° contact
 - ⑤: 90° contact
 - ⑥: 90° contact
 - ⑦: 90° contact
 - ⑧: 90° contact
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 - ⑪: 90° contact
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1. Mating
 - (1) Housing: PBT, UL94V-0, black
 - (2) Contact
 - ①: 90° contact
 - ②: 90° contact
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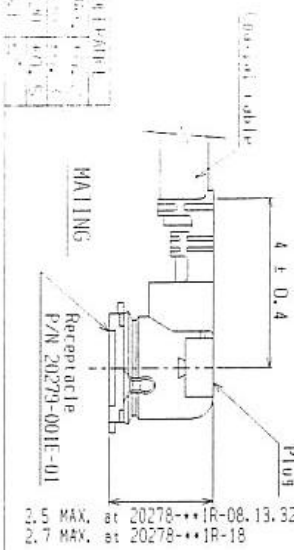
4. Force active load of cable at mating

コネクタ合後のケーブルに対する荷重
5. Mating time for motion & unmating

コネクタ合時の合時および抜去時の注意

- 5-1 コネクタ挿入時

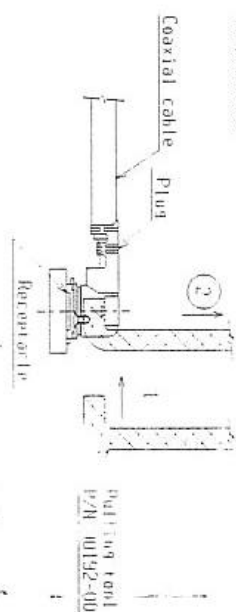
PlugとReceptacleの合時合合後、
ケーブルの挿入方向を直線的に
挿入してください。
ケーブルの挿入方向を直線的に
挿入してください。
ケーブルの挿入方向を直線的に
挿入してください。



5-2 Unmating.

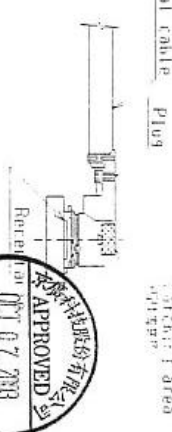
- (1) In case of unmating by pulling tool.

Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.



- (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.



DESIGNED BY	DATE	I-P-EX	TITLE	MIF SERIES MICRO COAXIAL	CONNECTION PLUG VER.1.0	PROJECT NO.	
CHECK BY	DATE						
APPROVED	DATE						
CUSTOMER	PROJECTION	SCALE	UNIT				
COPY	+	mm	mm				

KURABE INDUSTRIAL CO., LTD

SP3830M-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5022)	PAGE	1/4
PRODUCT STANDARD		ISSUED	17-9-2001
		REVISED	

1. SCOPE

This standard covers "FEP insulated High-Frequency coaxial cable".

2. CONSTRUCTION

Construction and dimensions of the cable are shown in Figure.1 and Table 1.

3. PERFORMANCE

Performance of the finished cable is shown in Table 2. The test methods are in accordance with applicable test methods described in JIS C 3005.

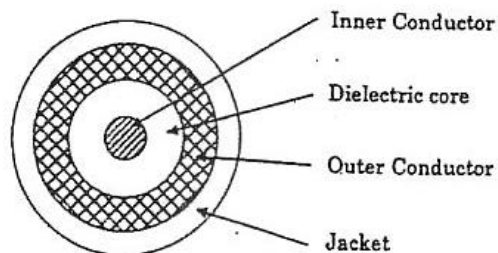


Figure 1.



NOTE :

MADE BY

M. Hiba

APPROVALS

T. Nagasawa

KURABE INDUSTRIAL CO., LTD

SP3830M-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5022)	PAGE	2/4
PRODUCT STANDARD		ISSUED	17-9-2001
		REVISED	

Table 1. Construction

Item	Unit	Specified Value
Inner Conductor	Material	—
	Stranding	No./mm
	Dia.(approx.)	mm
Dielectric Core	Material	—
	Thick.(nom.)	mm
	Dia.	mm
	Color	—
Outer Conductor	Material	—
	Type	—
	Dia.(approx)	mm
Jacket	Material	—
	Thick.(nom.)	mm
	Dia.	mm
	Color	—

Table 2. Performance

Item	Unit	Specified Value	Note
Appearance	—	Faultless in visible	—
Inner conductor resistance	Ω/km	Max.597	at 20°C
Insulation resistance	$\text{M}\Omega \cdot \text{km}$	Min.1500	at 20°C
Dielectric strength	—	Dielectric core: No breakdown at AC1.5kV for 0.15sec.	Spark test
		Jacket: No breakdown at AC1.5kV for 0.15sec.	Spark test
		No breakdown at AC500V for 1min.	Outer conductor to inner conductor
Heat resistance for solder	—	Shrink or expansion of dielectric core are not more than 0.5mm	※
Capacitance	pF/m	nom. 98	at 1kHz
Characteristic impedance	Ω	50±2	TDR method
Attenuation (nom.)	dB/m	2.0	1.0GHz
		2.9	2.0GHz
		3.6	3.0GHz
		4.2	4.0GHz
		4.7	5.0GHz
		5.2	6.0GHz

※ After immersion of dielectric core, 10mm into soldering pot which is 230°C for 5 seconds, shrinkage or expansion of the dielectric core must not exceed 0.5mm.



NOTE :	MADE BY	M. Ohba
	APPROVALS	J. Hasegawa

KURABE INDUSTRIAL CO., LTD

SP3830M-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5022)	PAGE	3/4
PRODUCT STANDARD		ISSUED	17-9-2001
		REVISED	

4. INSPECTION
An inspection is took place in accordance with applicable test methods. The cable has to pass the specifications described Table 1 and Table 2.

5. TEST METHOD
The test methods are in accordance with applicable test methods described in JIS C 3005 (Test methods for rubber or plastic insulated wires and cables).

6. TEMPERATURE RATING
150 °C

7. VOLATGE LATING
250 V

8. MARKING ON TAG
Each reel of finished cable is tagged to indicate following information:
 (1) Designation of the cable,
 (2) Conductor size,
 (3) Length,
 (4) Date of manufacture or LOT No.,
 (5) Specification No., and
 (6) Manufacture's name.

9. PACKAGE
The finished cables are cut into a shipping length of 200 meters, reeled to paper bobbin and packed securely to prevent injuries during transportation. Odd length of the finished wires should be accepted for shipping according to the condition of mutual agreement.
In the case no agreement is found, the condition stated in quotation shall prevail.

10. APPLICATION NOTES
 10-1. For use other than the use mutually agreed, compatibility should be carefully confirmed in each practical use by user.
 10-2. It is recommended to make a trial run for each practical application.



NOTE:	MADE BY	M. Ohta
	APPROVALS	T. Hasegawa

KURABE INDUSTRIAL CO., LTD

SP3830M-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5022)	PAGE	4/4	
PRODUCT STANDARD		ISSUED	17-9-2001	
		REVISED		

10-3. In case a design for use of cable is changed, please contact our sales department, if necessary. Do not use under extreme mechanical stress such as hard bending, tightening, and twisting. The use under extreme mechanical stress may cause not only shortening the life span of cable but also troubles such as decline of dielectric strength.

10-4. Handling precautions

① Do not hurt the insulation and sheath of the cable by making holes and scratches. And avoid any sharp edge when wiring so as not to injure cables.

② Avoid unnecessary excessive force to cable, such as pulling, twisting, bending or tightening.

10-5. Storage precautions

Avoid continuous exposure to sunlight.

研發部
GINCOM
OCT 07, 2003
APPROVED

NOTE:	MADE BY	<i>m. Ohba</i>
	APPROVALS	<i>T. Kanazawa</i>

6. TYPICAL PROPERTIES OF "TOYOLAC"

4

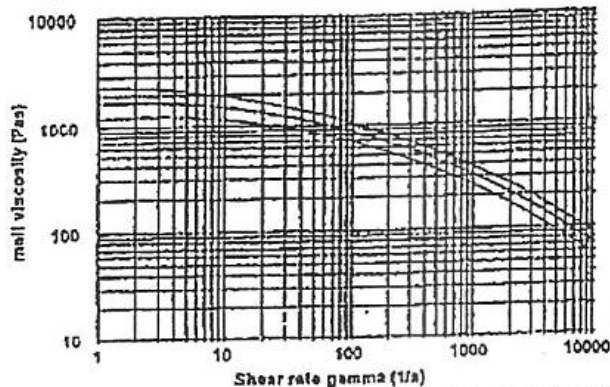
[illegible]

TPEE 材質證明

DSM Engineering Plastics
Arlitel[®] EL630/EM630



Capillar melt viscosity of Arlitel EM630.
240, 250 and 260°C.



Graph 2.80 and 2.81: Temperature dependency of the melt viscosity for Arlitel EL630 and EM630.

The MFI values are shown in table 2.31.

		EL630	EM630	
MFI 230°C	g/10 min		7	ISO 1133
MFI 240°C	g/10 min	30		ISO 1133

Table 2.31: MFI for Arlitel EL630/EM630.

• Use of regrind:

Arlitel can readily be recycled. If the MFI of the regrind is up or down to four points higher, 20% can be recycled. A difference of 2 MFI points allows up to 50% of regrind. Obviously the regrind should be dried properly before use.

2.8.34 Mechanical properties:

If Arlitel EL630 or Arlitel EM630 are processed properly the material's will have mechanical properties as shown in table 2.32.

Mechanical property	SI Unit	typical data*		test method
		EL630	EM630	
Hardness	Shore D	63	63	ISO 868
Tensile modulus (1 mm/min)	MPa	330	330	ISO 527
Tensile strength (50 mm/min)	MPa	30	30	ISO 527
Strain at break	%	350	350	ISO 527
Tensile stress at 5% strain	MPa	11.5	11.5	
Tensile stress at 10% strain	MPa	15.9	15.9	
Tensile stress at 50% strain	MPa	17.3	17.3	
Tear strength Graves	KJ/m	145	145	DIN53315
Izod notched 23°C (73°F)	KJ/m²	NB	NB	ISO 180/1A
Izod notched -30°C (-22°F)	KJ/m²	4	4	ISO 180/1A
Charpy notched 23°C (73°F)	KJ/m²	NB	NB	ISO 179/1eA
Charpy notched -30°C (-22°F)	KJ/m²	12	12	ISO 179/1eA

* Data for dry natural materials.
NB: No Break

Table 2.32: mechanical properties of Arlitel[®] EL630.



Сысолов

[illegible]