

Training Research Co., Ltd.

255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. TEL: 886-2-26935155 FAX: 886-2-26934440

Measurement of MPE

1. Foreword

In adopt with the Human Exposure IEEE C95.1, and according to the FCC 1.1310. The *Maximum Permissible Exposure (MPE)* is obligated to measure in order to prove the safety of radiation harmfulness to the human body.

The *Gain* of the antenna used is measured in an *Anechoic chamber*. The *maximum total* power to the antenna is to be recorded. By adopting the *Friis Transmission Formula* and the power gain of the antenna, we can find the distance right away from the product, where the limit of the MPE is.

2. Description of EUT

EUT : External Conexant 56K Data/Fax Bluetooth Modem

Model No. : BT-56SA-SCD

FCC ID : JCHBT56SASCD

Classification: Mobile Device

(i) Under normal use condition, the antenna is at least 20cm away

from the user:

(ii) Warning statement for keeping 20cm separation distance and the prohibition of operating next to the person has been printed in the

promotion of operating next to the person has been printed in the

user's manual

Frequency Range : 2401 MHz-2480 MHz

Support Channel: 79 Channels

Channel Spacing: 1 MHz

Modulation Skill: GFSK

Power Type: Powered by the AC Adapter (Model No.: MW41-0900800UA)

(I/P: 230VAC, 50Hz; O/P: 9VAC, 800mA)

Applicant : WELL Communication Corp.

11F, No. 788, Chung Cheng Rd., Chung Ho City,

Taipei Hsien, Taiwan, R.O.C.



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3. Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Filed Strength (H) (A/m)	Power Density (S) (mW/cm2)	Averaging Time $ E ^2, H ^2 \text{ or } S$ (minutes)
(A) Limits for Occu	ipational/Controlle	d Exposure		
0.3-3.0	614	1.63	100	6
3.0-30	1842/f	4.89/f	900/f ²	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for Gene	eral Population/Unc	controlled Exposure		
0.3-1.34	614	1.63	100	30
1.34-30	824/f	2.19/f	$180/f^2$	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

[The EUT is tested in transmit and receive modes and in the first, middle and the last channel separately. The following shows only our observation have the greatest emissions.]

According to **OET BULLETIN 56 Fourth Edition/August 1999**, equation for predicting RF fields, by the *Friis Transmission Formula*:

Power density at the specific separation (portable):
$$S = \frac{PG}{4pR^2} = \frac{2.12 \times 1.995}{4p(20)^2} = 8.414 \times 10^{-4} \, \text{mW} \, / \, \text{cm}^2$$

Estimated safe separation:
$$R = \sqrt{\frac{PG}{4p}} = \sqrt{\frac{2.12 \times 1.995}{4p}} = 0.58cm$$

Remarks: "The safe estimated separation that the user must maintain from the antenna is at least 0.58 cm."

Where: S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

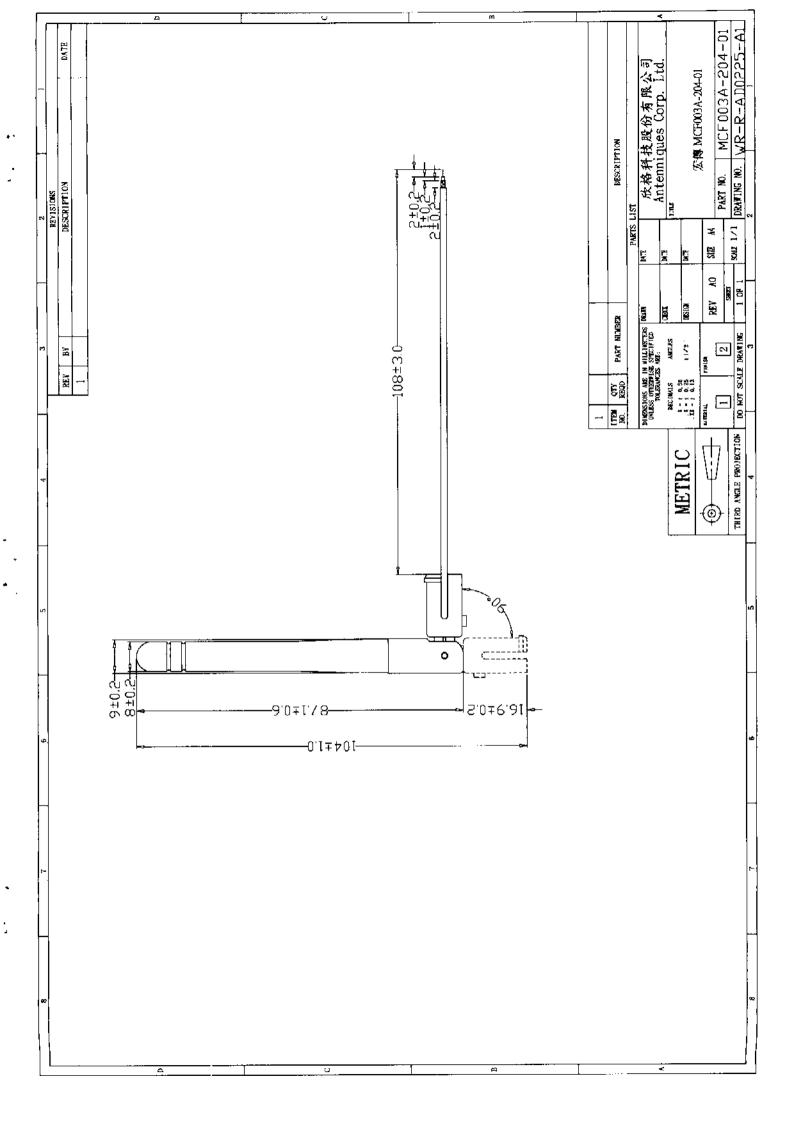
G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

The Numeric gain G of antenna with a gain specified in dB is determined by:

$$G = Log^{-1} (dB antenna gain/10)$$

$$G = Log^{-1} (3 / 10) = 1.995$$



TECHNICAL DATA

Electrical Properties

Frequency Range

: 2.4~2.5GHz

Impedance

: 50 Ohm nominal

VSWR

: ≦2.0

Gain

: 3dBi

Radiation

: Omni

Polarization

: Vertical

Electrical Wave

: $\lambda / 4$ Dipole

Mechanical Properties

Antenna Cover

: PU

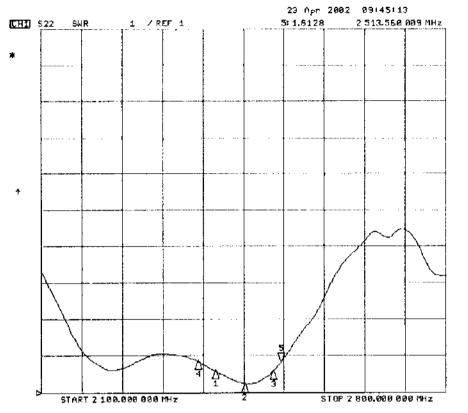
Color

: Black

Operation Temperature : $20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage Temperature : $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$

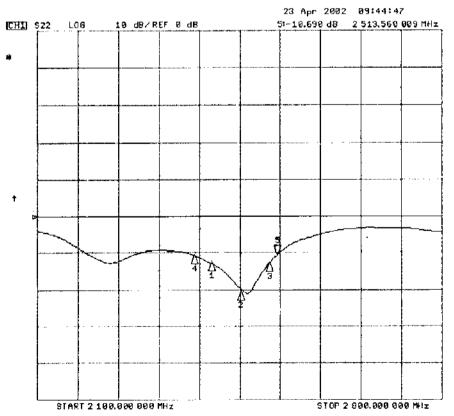
VSWR



CH1 Markers 1: 1.5974 2.48080 GHz 2: 1.2194 2.45000 GHz

9: 1.5017 2.50000 BHz 4: 1.8539 2.35970 BHz

Return Loss

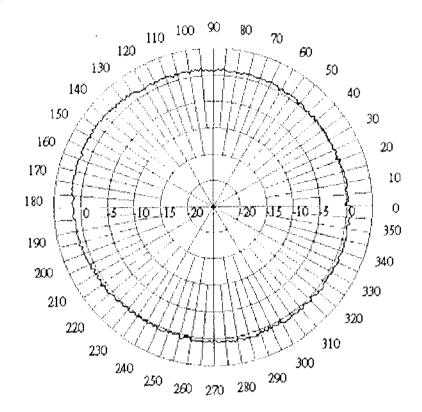


CH1 Markers 11-12.525 dB 2.40000 GHz

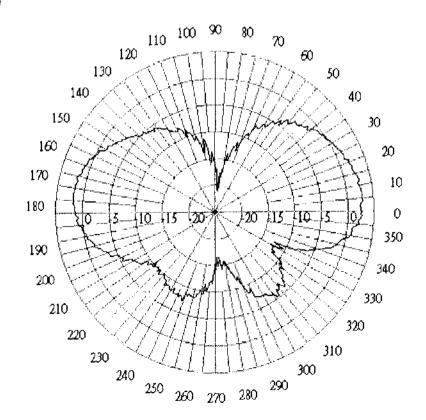
21-28.499 dB 2.45000 GHz

3:-12.510 dB 2.50000 SHz 4:-10.578 dB 2.36970 GHz

H-Plane



E-Plane



线

线是种类最多的镀铜产品,没有任何产品在应用上 有线这样广泛。

圆线之使用包括:

- 长行程螺旋弹簧
- ●小型机电插座
- ●冷眼钉头紧固件
- 弹簧负载测试探针
- 轻量耐疲劳线缆
- ●BANDOLIERED 连接器接点
- ●编织屏蔽布
- 筋腐及防生物恶臭海上线及筛网结构
- ●限镜框

线拉直切成一定长度称为杆(ROD)。

线之断面也可以不是圆形,"异形"线在特殊的应用中担任了重要的角色,如扁线用于可收缩天线及电报电缆。扇线也可用于代替窄带,虽然有宽度对厚度的比,如果超过此比就不可行。但在许多情形下可达到节约。扁线可减少剪裁毛边、

方线用于电子接点,特别是线的包封需要尖锐的角时,可以达到可靠的接触,偶尔、方形及长方形的线,需要斜角以定向。这些需求及其他较不普遍的形状的镀铜线均可以达到。

本公司所供应之线直径自12.7mm至1.3mm, 其公差如表所示,较细的线可以向本公司定单或从本公司之许多再拉制商获得。

线可以退火态 (A) 或四分之一硬 (1/4H)、半硬 (1/2H) 或全硬 (H) 供应。但在特别情况下也供 应预硬化 (亦称"预处理")线。本产品适用于各种强度与耐久性的产品,可达到柔软而严格的成型 要求。

	及不	规格
BRUSH 合金	UNS 编号	线 材
25	C17290	ASTM B 197 OO-C-530 AMS 4725 SAE J 461, SAE J 463 JIS H3270
M25	C17900	ASTM B 197 QQ-C-530
3	C17510	• .
10	C17500	
DQ BAE AMS JIB DIN	美国材料试验学会 联邦镇格 自动车辆工程师学会 太空村料装格(SAE 日本工业规格 作国工业规格 FM、材料均格 ASTI	刊集)

			公差		
		(毫米 }		
£	主	ž		BRUSH W 标准公 (+或·	楚
以上		以下	. 1	冷拉	退火
1.27	_	2		0.008	0.025
2	_	3		0.01	0.05
3	_	6		0.015	0.05
6	_	8		0.02	0.05
8	_	10		0.025	0.05
		12		0.025	0.05



欣格科技股份有限公司 Antenniques Co.,Ltd

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5F,No.6,Laine 122, Sec 2,Ganyun St, Shulin Chulin City, Taipei Hsien, 238 Taiwan R.O.C.

Beryllium Copper

合金 Alloy	状态 (*)	热处理	线直径 mm	抗拉强度 kg/mm²	屈服强度 kg/mm²	伸长百分比	导电百分比 IACS
***************************************	A (TB00)	-	1.3-12.7	42-55	14-22	30-60	15-19
	1/4H (TD01)	-	1.3-12.7	63-81	52-74	3-25	15-19
	1/2H (TD02)	_	1.3-12.7	77-95	63-88	2-15	15-19
25	3/4H (TD03)	-	1.3-2.0	91-109	80-106	2-8	15-19
C17200 和	H (TD04)	-	1.3-2.0	98-117	91-113	1-6	15-19
M25 C17300	AT (TF00)	3hr 315-330°C	1.3-12.7	112-141	101-127	3 U.L	22-28
	1/4HT (TH01)	2br 315-330°C	1.3-12.7	123-148	116-141	2 以上	22-28
	1/2HT (TH02)	1.5hr 315-330°C	1.3-12.7	130-152	119-148	2 以上	22-28
	3/4HT (TH03)	1hr 315-330°C	1.3-2.0	133-162	123-155	2 以上	22-28
	HT (TH04)	1hr 315-330℃	1.3-2.0	137-162	128-155	1 以上	22-28
	A (TB00)	_	1.3-12.7	24-39	7-22	20-80	20-30
3 C17510	H (TD04)	_	1.3-12.7	45-57	38-53	2-20	20-30
和 10 C17500	AT (TF00)	3hr 480-495°C	1.3-12.7	70-92	56-78	10以上	45-60
	HT (TH04)	3hr 480-495°C	1.3-12.7	77-9 9	66-88	10以上	48-60



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APPENDIX

LEO ME PTFE rod is manufactured with virgin PTFE powder by ram extrusion or compression molding and is conformed to meet the requirement of ASTM 1710 (Standard Specification for TFE FLUOROCARBON ROD) described in following table and JIS K 6889 (JAPANESE INDUSTRIAL STANDARD POLYTETRAFLUOROETHYLENE RODS).

TABLE 1 Detail Specification for PTFE Rod

TTEM	PRÓPERTY	ASTM TEST METHOD	VALUE
1	Specific gravity	D792	2.15-2.2
2	Tensile strength	D638	280-350 kg/čm^2
3	Elongation	D638	200-400%
4	Dielectric strength	D149	30KV/mm
5	Deformation under load. 6.9Mpa,50C, %	D621	3.5 - 6
6	Dissipetion factor	b150	Less than 0.0005
7	Dielectric constant 1 KHz	D150	2.0 - 2.1
8	Volume resistivity	D257	> 10^16
9	Surface resistivity	D257	10^17
	Flexural modulus	0790	430-500Mpa
11	Compressibility	D1147	16-204
12	Hardness, durometer	D2240	D53 - D60
	Impact strength	D256	16kg-cm/cm
	Coefficient of	D696	12.3
, , ,	linear thermal		to
1 1 1	expansion, per C. 30C to 80C, 10^-5C		11.6



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PTFE PROPERTY

Item		UNIT	TEST METHOD	PTFE
		wt%	(ASTM)	(NATURE)
Apparent density		g/lit	D-1457	260
Specific Gravity		g/cm²	D-792	2.18
Tensile Strength		kg/cm²	D-638	315
Elongation		<u> </u>	D-638	400
Deformation (Total) M	D O		D-621	_
7	D D	*	(23°C 140 kg/m²)	14.3 16.7
Permanent N	AD _			7.9
Deformation C	_			8.4
	<u>-</u>		150°C	51.8
	D		200 kg/cm²	J1.8
		· · · · · · · · · · · · · · · · · · ·	200 Eg/(#	
Flexural Strength ((0.2% offset) Flexural	CD	kg/cm²	D-790	57
Modulus C	D			3,500 ~ 6,300
Compressive				
Strength N (0.2% offset) (OD.	kg/cm²	D-695	77 —
(0.2% 0.2500)		ng/om		
	D		1 [4,200
	CD			<u> </u>
Hardness		Durometer "D"	D-2240	55
Impact Strength		kg-ca/cm	D-256	15.8
Confficient of The Conductivity	emal	Kcal/m.hr. C	Cenco Fitch	0.21
Confficient of Line	ar		-	
Thermal Expansion	, '	•		
25~90°C	MD]	_
•	CD		1	12.2
25~150℃	MD		1	
_	CD	0.01m/°C	D-696	12.6
25~200℃	MD			_
,	CD			13.7
25~260℃	ΜĐ			
	CD			16.4
Water Adsorpsim		×	D-570	0
Confficient of			P=7 kg/cm²	
Friction(Dynamic)			V=0.5 m/sec	
Confficient of Friction(Static)			P=35 kg/cm²	0.05-0.08
- 11caoin Bunto)			<u> </u>	



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PTFE QUALITY CONTROL REPORT

We hereby state that the following material is in accordance with our specifications.

Date

November 6, 2001

Product:

ICI PTFE G201

Lot No :

FPIHRI 9001

Contents:

25kg * 35

Ref No :

Inspection Item	Unit	Data	Test Method
Bulk density	g/L	465	ASTM D 4895
Standard specific gravity		2.174	ASTM D 4895
Particle size(Avg.)	μщ	500	ASTM D 4895
Melting point	°C	329	ASTM D 4895
Extrusion pressure	MPa	69.7	Asahi method
Water content	mas 🎶	0.003	ASTM D 4895

ASAHI GLASS FLUOROPOLYMERS CO., LTD.

Tetanya Higuchi

Production Engineering Group Polymer Production Department Chemical Division



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Antenna Cover Polyurethane

Elastogran GmbH

Geschäftsbereich TPU-Elastomera

Elastogran



Eastogran GmbH - Postfach 1140 - 49440 Lamförda - Germany WGJ COMPANY LTD.

P.O. BOX 36 - 431

RC

TACYUAN HSIEN

EASF Gruppe

Date

18.07.2001

No.

62046

Inspection Certificate EN 10 204-3.1 B (DIN 50049)

Product : Batch :

ES 95 A 50 000

207672

8

No.: 15002939

Basic-Batch

207673

Property	Test method	Unit	Value
Dichte	DIW 53479	g/am3	1,24
Shore-Easte D	DIN 53505	2 *	50
Zugfestigkeit	DIW 53504	MPa	53
Reissdehnung	DIM 53504	<u>*</u>	550
Abrieb	DIM 53516	mm3	22

Dichze — Deneity/Deneité, Shore Héria — Shore hardmann/Shore Dureté, Zugfestigkeit — Teneile strength/Resistance traction, Relidétriung — Etongston at break/Alongement rupture, Weiterrelikviderstand — Tear strength, Abrieb — Abnasion loss/Abrasion

The stated values are measured from a representative batch (basic-batch) of every product campaign.

Test platens are injection moulded from dry granulate with less than 0,05 % water contern. Test platters tempered 20 hrs. at 100 °C, then cooled to 23 °C / 50 % RH before testing. Test specimen cut from test platters.

We hereby certify, that the material described above complies with the terms of the order contract

Höbner

Echoote

Works Inspecto

The above information is derived from our quality checks. It does not relieve the purchaser from examining the product upon delivery and gives no sesurence of substitly of the product for any particular purpose.



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Antenna Cover Polyurethane

Elastollan S規格系列

聚酯類Polyester,有良好機械特性,優異的耐磨性,高 彈性,抗拉及撕裂強度用於運動鞋底、溜冰鞋及機械零

件等·射出及押出成形

							1	•			1
物 性	単位	DIN	S80A	S85A	SBBA	S90A	S95A	S98A	S600	\$64D	\$74D
用於射出▲ 押出■ 吹出●			A B	A =	•	A =	A	•	A	•	•
硬度 蓋氏A Hardness	Shore A	53505	81	85	88	93	96				
硬度 童氏D Hardness	Shore D	53505			38	41	48	55	60	64	75
密度Density	g/cm²	53479	1.22	1.23	1.23	1.24	1.24	1.25	1,25	1,26	1.26
抗拉強度Tensile strength *	N/mm²	53504-82	50	55	55	55	50	45	45	45	40
斷裂延伸率Elongstion at break *	%	53504-62	750	650	650	600	550	500	500	450	300
20% 抗拉模數 Tensile modulus "	N/mm²	53504-52	2	2	3	8	8	13	15	22	25
100% 抗拉模數Tensile modulus *	N/mm²	5 3 504-\$2	4	5	6	9	11	16	18	23	30
300% 抗拉模數 Tensile modulus *	N/mm²	53504-52	8	В	9	13	20	23	34	38	40
彈性模數一張力測試(測試線品3mm) Modulus of elasticity	N/mm³	53457-1				 -		200	250	410	800
撕裂強度 Tear strength	N/mm	53515	60	70	75	95	120	150	170	200	240
摩擦損耗 Abrasion loss	mm³	53516	40	35	30	30	30	25	25	25	25
查温配缩變形率 Compression set	%	53517	25	25	25	25	25	30	40	45	55
70℃壓縮變形率 Compression set	%	53517	35	35	35	45	45	45	50	55	60
凹口衝擊強度 +23℃	kJ/m²	53453	學	不確認	不模型	不被對	不破異	不被製	不被	不破損	不讀
Notched impact strength (Charpy) -30°C			不確義	不確製	不確製	不避費	5	6	6	4	3

。 S2試片在100mm/min的應覺速度下測量

◆厚度2或6mm射出試片、在100℃回火20小時後測驗

上列測驗值僅供參考・常因客戶製品設計而變

●換算單位:1MPA=10.2kg/cm²=145PSI=1N/mm² 1kJ/m²=1.02kg.cm/cm² 加工條件

一射出成形温度176~240℃

- 横遇20~70℃

一押出成形温度175-230℃



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Antenna Base Polycarbonate

TELLIN CHEMICALS LTD.

THILLY CHEMICALS: LTD. 2-T. UCHISAIWAICHO I-CHOME. CHIYODA-KU, TOKYO: JAPAN

TELEPHONE: TOKYO (2506) 4780 EACSINIEM: TOKYO (2506) 4780

TO THOSE IT MAY CONCERN.

CERTIFICATE OF QUALITY

FEEN	QUALLTY STANI PACT STRENGTH ZOD NOTCHED kgfcm/cm ASTN D256 ≥80 7. 2mm thicki		QUALLTY STANGARD	TEST RESULT
LMPACT STRENGTH (1200 NOTCHED 7. IND thick)	kgfcm/cm	ASTN DXS6	≥80	PASS
FLEXURAL MODULUS	kef/qui*	ASTH DT90	23, 600±1, 600	PASS -
TENSILY STRENGTH (AT BREAK)	kgf/cm²	ASTV: DATA	820±140	PASS

NOTE: ALL FIGURES ENTERED IN THIS TABLE ARE FOR THIS SPECIFIC LOT AND, THEREFORE, NO GUARANTER.

TELTIN CHEMICALS LTD.

Y. KIKUCHI

WANAGER SALES ADMINISTRATION DEPT.



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Antenna Base Polycarbonate

OMFZ2 Component - Plastics

TELJIN CHEMICA	LS LT	D							E	50075	(M)
1944411 011411001		-					(C	- 000	t from	n (i010	cird)
L-1225UM(d),	Αll	0.40	94V-2	80	80	80	4	3	5		
L-1225ZL(d)	,	0.75	94V-2	80	80	80	3	1	2		_
A		1.5	944-2	125	115	125	3	1	3		-
		2.1	94HB	125	115	125	3	1	3		~-
		3.0	94H8	125	115	125	ž	ī	3	5	2
		6.0	94H8	125	115	125	ī	ī	4		_
L-1275LL(d)	Αίί	0.4	94V-2	60	80	80	4	3	2	_	_
C-susperial	, ,,,,,	0.75	94V-2	80	80	80	3	1	2		- -
		1.5	94V-2	125	115	125	3	1	3		-
		3.0	94V-2	125	115	125	3	1	3	5	Z
		3.3	94HB	125	115	125	2	1	3		_
		6.0	94HB	125	115	125	1	1	4		
L-1250#(f2)(d),	All	0.40	94V-2	80	80	80	Ī	3	2		
L-1250Us(d),	nu.	0.84	94V-2	80	80	80	Ă	_	4	مب	_
L-1250V#(d),		1.5	9448	125	115	125	- I	C	ž		_
		3.0	94HB	125	115	125	,	ŏ	3	5	2
L-1250Z#(d)		6.0	94HB	125	115	125	ì	ŏ	4		<u> </u>

Reports: February 10, 1989; February 10, 1989; September 24, 1990.

Replaces E50075C dated November 1, 1994. Underwriters Laboratories Inc.® 699748006 N7047

(Cont. on COOS card) D11/0032918

OMFZ8 July 28, 1997 Component - Plastics Certified For Canada

TEIJIN CHEMICALS LTD

E50075 (M) (C - cont. from & card)

(cc) 10 thru 30 incl.

(i) A two digit number (10-15) denoting carbon filler content.

(j) A two digit number (10-40) denoting the total content of carbon fiber and glass fiber, ww = A two digit number 10 thru 20 denoting content of carbon filler.

§ Any one or two letters may be suffixed to the grade.

Marking: Company name and material designation, generic polymer identification, color number where appropriate, and batch or lot number or date of manufacture on container, wrapper or molded on finished

See General Information Preceding These Recognitions.

Small-scale test data does not pertain to building materials, furnishings and related contents. Small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

699748006

Underwriters Laboratories Inc.

C11/0251459



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網 站:www.antenniques.com.tw E-mail: anten.niques@msa.hinet.nct

Properties of Panlite'

Ba		11-1-	Test	B	Weath	or Resistant (SAE approved)	Grade
ltem	1\$	Valt	Method	Condition	L-1225ZL	L-1225Z	L-12507
Specific gravifi	y	_	ASTM D792		1.20	1,20	+ 1.20
Water absorpt	·	У.	A5TM 0570	24hr In 23°C water	0.20	0.20	0.20
light transmit	skon	*	ASTM 01003	3 mm shéck	88	88	88
Retractive Ind	60x		ASTM DS42	_	1.585	1.585	1.585
iensile	Yield	MP2 (kgf/tcm²)	ASTM D638		65 (560)	63 (540)	62 (630)
strength	Break	MPs (kgl/cm²)	ASTM DESS	_	64 (655)	77 (790)	80 (820)
Tanska moduli	践	M/m (kgl/cm²)	ASTM D638	-	2,190 (22,300)	2,130 (21,700)	2,120 (21,600)
Tensile	Yield	×	ASTM D638		6	6	6
elongation	Break	36	ASTM D638	_	130	140	140
Flexural stren	gih	MPa (kgl/cm³)	ASTM D790	-	96 (980)	93 (950)	92 (94 0)
Flexural mode	alus :	MPa , (kgi/cm²)	ASTM 0790	_	2,330 (23,800)	2,280 (23.000)	2,230 (22,700)
Compressive	strangth	MPa (kgt/cm ¹)	ASTM D895	-	77 (790)	76 (780)	78 (770)
		l/m (kgi-cm/cm)	AŞTM D256	szod notchés 3.2 mm thick	100 (10)	830 (85)	880 (90)
Impact streng		(kgf-cm/cm)	ASTM D256	ized notched 8.4 mm thick	50 (5)	130 (13)	140 (14)
Rockwell har		_	ASTM D785	M scale	77	77	77
				Flow direction	0.5~0.7	0.5 - 0.7	0.5-0.7
Mold shrinka	ů.	*	ASTIA D955	Traverse direction	0.5-0.7	0.5-0.7	0.5 - 0.7
Heat distortion)h .	*c	AST N (3848	Load 0.451 MPa (4.5 kg//cm²)	138	141	142
temperature		"	,	Load 1.813 MPa (16.6 kgf/cm²)	128	131	132
Confficient of	linear	×10-1		Flow direction	7	7	7_
expansion .		cm/cm/~C	ASTM 0696	Traverse direction	7 .	7	7
Dielectric bre strength	akdown	VV/rem	ASTM D149	Oulck voltage rise mathod 1,5mm thick	30	30	30
Volume resis	tivity	×10™Q-cm	ASTM D257	_	3	3	3
Product !		-:		50 H≥	2.95	2,95	2.95
Dielectric con	rstant	-	ASTM DISO	10° Hz	2.9	2.9	2.9
				80 Hz	0.0004	0.0004	0.0004
Dielectric los	a ទេបថិទុវវ	-	ASTM DISO	10° Hz	0.009	0.009	0.009
Are resistance	*	tec	ASTM D495		100	100	100
Anti-tracking	(CTI)	٧	IEC 112	_	300	300	300
Plant Sales	10 10 10 10	es e la capa		1,47 mm thick	947-5	94V-2	947-2
Flame realsta	Ince 7	-	UL P4	3.05 mm thick	947-5	94V-Z	947-2
	• •			Electric 1,47 mm thick	125	125	125
Temperature	index .	•6	SR. 7468	Impact 1,47 mm thick	115	115	115
				Non-Impact 1,47 mm thick	125	125	125

All figures entered in this table are the typical figures and, therefore, no gua



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Grades of Panlite'

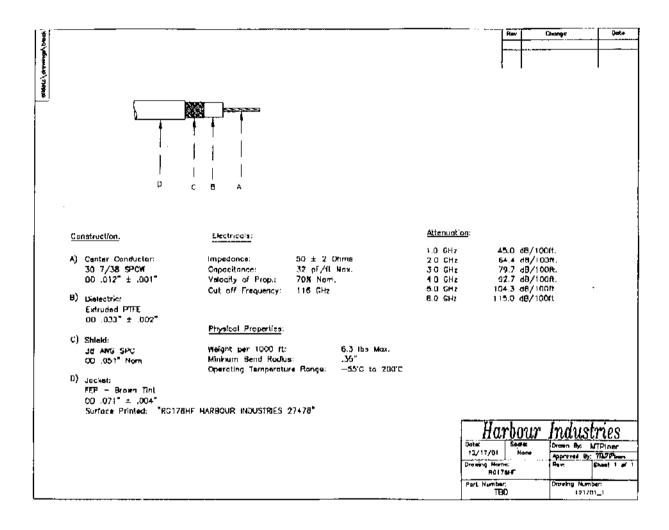
Grades	Viscosity	Characteristics	Main molding methods	Principal applications
K-1300	High	Standard	Extruding/blow molaing/ injection molding	Sheet, film, pipe and other extruded products. Bottles and other direct blow molded products. Large tanks and other rotational molded products.
K-1300Y	•	Moid release/ice color	Extruding/blow molding/ injection molding	
K-1300Z	٠	Weather resistance/ lce color	Extruding/blow molding/ Injection molding	
K-1300W		Powder	Extruding/rotational molding	
K-1285	-	Standard	Extruding/blow molding/ injection molding	
L-1250	Medium	Standard	Injection molding	Machine parts, electric and electronics appliance parts, medical apparatuses, protective aquipment parts, industrial parts in general. Lighting fixture parts requiring transparency and hast resistance. Table wares and mechanical parts requiring cold and hest resistance.
L-1250R	•	Mold release	Injection molding	
L-1250Y	•	Mold release/ice color	Injection molding	
L-1250Z		Weather resistance/ ice color	Injection molding	
L-1250J	. •	Boiling water resistance	Injection molding	
L-1250T	•	Boiling water resistance/mold release/ics color	Injection molding	
L-1250W		Powder	Injection molding/ rotational molding	Large tanks and other rotational molded products.
L-1225	10**	Standard	Injection molding	Thin-wall products requiring high flowability electric & electronics appliance parts, machine parts, protective equipment parts medical apparatuses, lighting flowers, lamp shade, table wares and containers. Sultable for injection blow molding uses.
L-1225R	. •	Moid release	Injection molding/ Injection blow molding	
L-1225Y	•	Mold release/ice color	Injection molding/ Injection blow molding	
L-1225Z	•	Weather resistance/ los color	Injection molding	
L-1225J	-	Boiling water registance	Injection molding	
L-1226T	•	Boiling water resistance/mold release/ice color	Injection molding/injection blow molding	
L-1225W	•	Powder	Injection molding/ rotational molding	
L-1225L "	Ultra low	Mold release/ice color	Injection molding	Ultra-thin well parts of electric & electronics appliances.
L-1225ZL 100		Mold release/ weather resistance/ ice color	injection molding	Ultra-thin lamp lenses.
AD-5503		Optical properties!	Injection molding	* Compact disks, CD-ROM, optical lenses.



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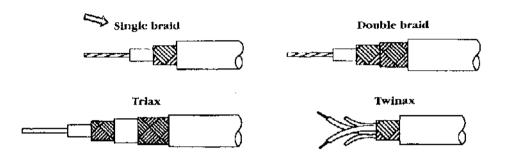


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MIL-C-17 Coax Cable - QPL Approved



Harbour supplies a complete line of high temperature, high performance QPL approved MIL-C-17 coax cables for the military, commercial and industrial markets. The specific MIT constructions referenced are manufactured in accordance with the most recont revision of the MIL C-17 specification to ensure a quality product. The MIL-C-17 specification defines complete physical and electrical characteristics for each MIT part number, including diameter parameters, dielectric materials, braid coverage, maximum attenuation, and VSWR levels.

VSWR Sweep testing

When selecting a 50 olim couxial cable, constructions with VSWR requirements are recommended with concern for VSWR ensures a quality cable free of spikes over the referenced frequency range. (Note the test frequencies specified in the electrical characteristics section.)

Precision PIFE Dielectrics

All of the high temperature, high performance coax cables listed have PTFE dielectrics with high dielectric strength and low capacitance in proportion to the dielectric constant. All PTFE dielectrics are manufactured with tolerances tighter than the MIL-C-17 specification to ensure uniformity of electrical characteristics, especially impedance, attenuation and VSWR.

Tape wrapped PTFE Constructions

Harbour also manufactures PTFE tape wrapped cables to a previous revision of the ME. C 17 specification. These constructions can withstand operating temperatures up to 250° C, versus 200° C for FEP jacketed cables. Also, PTFE tape wrapped cables are generally more flexible than their FEP jacketed counterpans.

UL Approvals

All of Harbours M17 part numbers manufactured to the MH-C-17 specification may be ordered with 18.1971 and FT4/FT6 approvals.





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