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Underwriters Laboratories Inc.

File E189529

Vol. 1

Issued: 4-28-98



FOLLOW-UP SERVICE PROCEDURE  
(TYPE L)

COMPONENT - APPLIANCE WIRING MATERIAL  
(AVLV2)

Manufacturer: VEGA TECHNOLOGIES INDUSTRIAL  
(422799-001) (AUSTRIA) CO  
CHYOU FUH LUH INDUSTRIAL ARE  
DAH LAANG  
DONGGUAN GUANGDONG CHINA

Applicant: SAME AS MANUFACTURER  
(422799-001)

Recognized Company: SAME AS MANUFACTURER  
(422799-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and the representatives of Underwriters Laboratories Inc. and is not used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

The PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC., and is not transferable.

UNDERWRITERS LABORATORIES INC.

S. Joe Bhatia  
Vice President, Follow-Up Services

UL is an ISO 9001 registered  
organization committed to public safety and  
excellence in quality services



# Certificate of Compliance

Certificate: 1467038

Master Contract: 721236

Project: 1467038

Date Issued: August 29, 2003

Issued to: Vega Technologies Industrial (Austria) Co.  
Qufulu Second Industrial Zone  
Dalinog Town, Dongguan, Guangdong  
CHINA  
Attention: Mr. Sheng Xiang Lin

*The products listed below are eligible to bear the CSA Mark shown*



Issued by:

*B. Chappell*  
B. Chappell, P. Eng

Authorized by:

*Neil Affano*  
Operations Manager

## PRODUCTS

CSA C22.2 No. 210.2-M90

**Part A:** Appliance Wiring Material single conductor construction with PVC insulation, 0.76mm min average thickness, in Sizes 32 - 10 AWG, Class I, Group A, rated at 105C, 600V, FT1, FT2, "0". In all colours except for clear and translucent.

**Part B:** Appliance Wiring Material single conductor construction with SR-PVC insulation, 0.18mm min average thickness, in Sizes 32 - 10 AWG, Class I, Group A, rated at 80C, 300V, FT1, FT2. In all colours except for clear and translucent.

**Part C:** Appliance Wiring Material round multiconductor construction with PP insulation, 0.18mm min average thickness, PVC jacket, with min average thickness not less than 0.51mm in Sizes 32 - 10 AWG, Class III, Group A, rated at 60C, 150V, FT2. In all colours except for clear and translucent.


## APPLICABLE REQUIREMENTS


CAN/CSA-C22.2 No 210.2-M90

Appliance Wiring Material Products

美嘉五金电线厂  
VEGA TECH. INDUSTRIAL (AUSTRIA) CO.  
规格书  
SPECIFICATION

STYLE	UL2651 N PIN并排线	DOCUMENT NO: VG/TSY-000-(007-034)
SIZE	_____	ESTABLISHED DATE: 2000-6-22
STANDARD:		
APPLICATION:	_____	_____
CONSTRUCTION:		
CONDUCTOR 导体	SIZE 规格	28AWG
	COND. MATERIAL 导体材质	镀锡铜
	CONSTRUCTION 导体结构	7/Φ0.127mm
INSULATION 绝缘	AVG. THICK. 平均厚度	0.26mm
	MIN. THICK. 最小厚度	0.18mm
	DIAMETER 绝缘外径	N×1.27±0.15mm×0.9±0.05mm
	MATERIAL 材质	防火UL-PVC
	COLOR 颜色	灰白半务
SHIELDED 隔离	_____	_____
	_____	_____
	_____	_____
JACKETED 外被	AVG. THICK. 平均厚度	_____
	MIN. THICK. 最小厚度	_____
	DIAMETER 完成外径	_____
	MATERIAL 材质	_____
	COLOR 颜色	_____
ELECTRIC FUNCTION 电气	CONDUCTOR RESISTANCE 导体电阻	MAX: 213.257 OHM/KM, 20°C
	INSU. RESISTANCE 绝缘电阻	MIN: 8M OHM/KM, 20°C
	DIELECTRIC STRENGTH 耐电压	300V
MARKING 印字	VEGA E189529 9U AWM 2651 VW-1 105°C 300V 28AWG	

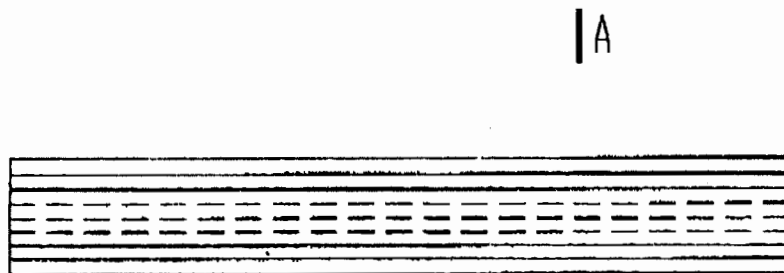
制作: Y. Z. H 审核: 郭同福代确认:   
单位: 工程部  
文件编号: VG-SOP-002

核准: 

修订日期: 00年6月22日  
版次: A0 页次: P1

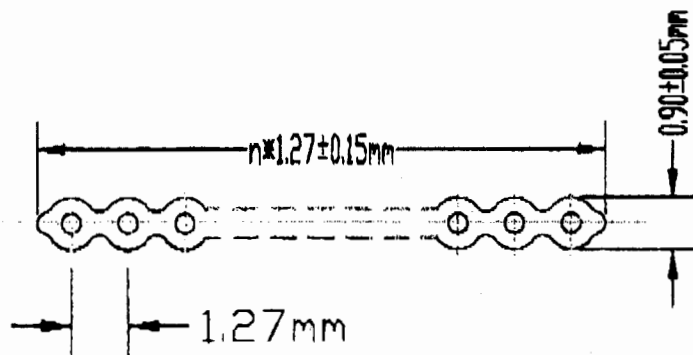
VG/TSY-000-(007-034)

n PIN FLAT CABLE



| A

| A



SEC:A-A

NOTE;

1. CONDUCTOR: TC (7X $\phi$ 0.127mm);
2. JACKET: UL-PVC , CORE (NP), PITCH (1.27mm), OVERALL DIAMETER ( $0.90 \pm 0.05$ mm X  $N * 1.270 \pm 0.15$ mm);
3. RATED TEMPERATURE: 105° RATED VOLTAGE: 300Volts.

VEGA TECHNOLOGIES INDUSTRIAL (AUSTRIA) CO.

REV NO: A0	CUSTOMER: 000	ENGINEER: [Signature] 4/2
DRAWING NO: VG/TSY-000-(007-034)	PART NO:	QC: [Signature]
ITEM NO: N PIN FLAT CABLE		SALES DEPT: [Signature] 2/2
UNIT: mm	DATE: 00.6.22	DRAWING: Y.Z.H
		MANAGER: [Signature]

文件编号: VG-SQP-001

2/4



Underwriters Laboratories Inc. E

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(TYPE L)

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UNDERWRITERS LABORATORIES INC.

S. Joe Bhatia  
Vice President, Follow-Up Services

A not-for-profit organization  
dedicated to public safety and  
committed to quality service



Test Report

No. 2021101/EC

Date: May 09 2005

Page 1 of 2

VEGA TECHNOLOGIES INDUSTRIAL (AUSTRIA) CO.  
QUFULU INDUSTRIAL ZONE DALANG TOWN, DONGGUAN CITY,  
GUANGDONG

Product of the submitted sample said to be UL 灰排.

SGS Job No. 1753457  
SGS Ref. No. SZTYR050413276/LP  
Sample Receiving Date APR 28 2005  
Testing Period APR 29-MAY 08 2005

Test Requested 1) to determine the Cadmium Content in the submitted sample  
2) to determine the Lead Content on the submitted sample.  
3) to determine the Mercury Content on the submitted sample.  
4) to determine the Hexavalent Chromium Content on the submitted sample  
5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method 1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
2) As specified in EPA Method 3050B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
3) As specified in EPA Method 3052, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).  
4) As specified in EPA Method 3060A & 7196A, the samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.  
5) With reference to SGS in-house method, Analysis was performed by GC/MS

Test Results 1-5) Please refer to next page.

Signed for and on behalf of  
SGS Hong Kong Ltd

Leo Lung/Mex Miranda  
Senior Manager

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H11798579



Test Report

No. 2021101/EC

Date : May 09 2005

Page 2 of 2

Test Results

Element	Grey Plastic
1) Cadmium (Cd)	< 2 ppm
2) Lead (Pb)	2 ppm
3) Mercury (Hg)	< 2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm

(Results shown are of the total weight of samples)

Note < = Less than  
ppm = mg/kg

5)	Gray Plastic	Detection Limit
<b>Flame Retardants</b>		
<b>Polybrominated Biphenyls (PBBS)</b>	---	---
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tri bromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylethers (PBDEs)</b>	---	---
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tri bromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note: ND = Not Detected  
Non-detected is lower than detection limit value.

\*\*\* End of Report \*\*\*

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