Flexible Pipe Quick Connector and **Couplings Parameters**

Material: PA (polyamide) Thread type: PG/Metric

Working temperature: -20~+110°C Flame retardant grade: UL94-V0

Protection degree: IP66, using suitable seal ring Color: Black. Other colors are customizable

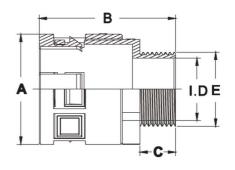
Property: Special design with inner locking buckle making the mounting and dismounting done by simple

plugging or pulling, without using tools.

Physical property form									
Character Materi		Working temperature	Flame retardant rating UL94				Level of	ROHS	Color
		temperature	НВ	V-2	V-1	V-0	protection		
074	PA	-20°C~+110°C		٧			IP66		Black
076	PA	-20°C~+110°C				٧	IP66	٧	Black

PG Flexible pipe's quick connector from

Model	Pipe Specification	Thread Specification	ID(mm)	A(mm)	B(mm)	C(mm)	E(mm)	Package(m/coil)
JF10W	1/4"(10mm)	PG7	7.5	17.5	30.5	10	12.5	100
JF13W	5/16"(13mm)	PG9	10.5	20.5	37	12	15.2	50
JF15W	3/8"(15.8mm)	PG11	14	23	37	12	18.6	50
JF18W	18.5mm	PG13.5	16	28	44	12	20.4	50
JF21W	1/2"(21.2mm)	PG16	17	30	44	13	22.5	50
JF25W	25mm	PG21	22.5	34	46	14	28.3	25
JF28W	3/4"(28.5mm)	PG21	22.5	37	46	14	28.3	25
JF34W	1"(34.5mm)	PG29	30	44	48	15	37	20
JF42W	1-1/4"(42.5mm)	PG36	37	53	48	15	47	20
JF54W	2"(54.5mm)	PG48	48	67	52	17	59.3	10
	N	∕letric Flexible	pipe's o	juick co	nnecto	r from		
Model	Pipe Specification	Thread Specification	ID(mm)	A(mm)	B(mm)	C(mm)	E(mm)	Package(m/coil)
JF10WM			6.5	47.5				
1 L T O A A I A I	1/4"(10mm)	M10*1.5	6.5	17.5	30.5	12	10	100
JF13WM	, , ,	M10*1.5 M12*1.5	8.5	20.5	30.5	12	10	100 50
	5/16"(13mm)							
JF13WM JF15WM	5/16"(13mm) 3/8"(15.8mm)	M12*1.5	8.5	20.5	37	12	12	50
JF13WM JF15WM JF18WM	5/16"(13mm) 3/8"(15.8mm)	M12*1.5 M16*1.5	8.5 12.5	20.5	37 37	12 12	12 16	50 50
JF13WM JF15WM JF18WM JF21WM	5/16"(13mm) 3/8"(15.8mm) 18.5mm 1/2"(21.2mm)	M12*1.5 M16*1.5 M20*1.5	8.5 12.5 16	20.5 23 28	37 37 44	12 12 14	12 16 20	50 50 50
JF13WM JF15WM JF18WM JF21WM JF25WM	5/16"(13mm) 3/8"(15.8mm) 18.5mm 1/2"(21.2mm) 25mm	M12*1.5 M16*1.5 M20*1.5 M20*1.5	8.5 12.5 16 15	20.5 23 28 30	37 37 44 44	12 12 14 14	12 16 20 20	50 50 50 50
JF13WM JF15WM JF18WM JF21WM JF25WM JF28WM	5/16"(13mm) 3/8"(15.8mm) 18.5mm 1/2"(21.2mm) 25mm 3/4"(28.5mm)	M12*1.5 M16*1.5 M20*1.5 M20*1.5 M25*1.5	8.5 12.5 16 15 21	20.5 23 28 30 34	37 37 44 44 46	12 12 14 14 14	12 16 20 20 25	50 50 50 50 50 25
JF13WM	5/16"(13mm) 3/8"(15.8mm) 18.5mm 1/2"(21.2mm) 25mm 3/4"(28.5mm)	M12*1.5 M16*1.5 M20*1.5 M20*1.5 M25*1.5 M25*1.5	8.5 12.5 16 15 21 21	20.5 23 28 30 34 37	37 37 44 44 46 46	12 12 14 14 14 15	12 16 20 20 25 32	50 50 50 50 25 20





Couplings Parameters

Flexible Pipe

Material: TPR Rubber

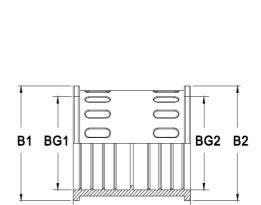
Working temperature: -40~+110°C Flame retardant grade: UL94-V0

Protection degree: IP66

Color: Black. Other colors are customizable Property: flexible and environmental protection

Physical property form									
Character	Material	Working temperature	Flame retardant rating UL94 HB V-2 V-1 V-0		Level of protection	ROHS	Color		
069	TPR Rubber	-20°C~+110°C	٧				IP66		Black

Couplings dimensions									
Model	Pipe Specification (BG1=BG2)	(B1=B2mm)	H(mm)	Package(m/coil)					
JF10H	1/4"(10mm)	17	34	50					
JF13H	5/16"(13mm)	20	37	50					
JF15H	3/8"(15.8mm)	23	45	50					
JF18H	18.5mm	26	48	50					
JF21H	1/2"(21.2mm)	29	48	50					
JF25H	25mm	33	48	25					
JF28H	3/4"(28.5mm)	36	48	25					
JF34H	1"(34.5mm)	42	48	25					
JF42H	1-1/4"(42.5mm)	51	60	20					
JF54H	2"(54.5mm)	63	70	10					



Н







Test Report No. CANML1412639301 Date: 04 Aug 2014 Page 1 of 5

GUANGZHOU JIEFA ELECTRICAL TECHNOLOGY CO., LTD.

NO.1, FUYONG ROAD, HUANGGE TOWN, NANSHA DISTRICT, GUANGZHOU CITY,GUANGDONG PROVINCE CHINA

This report is to supersede test report CANML1410368901

The following sample(s) was/were submitted and identified on behalf of the clients as: Bellows holder

SGS Job No.: GZIN1406016478PC-01 - GZ

Internal Reference No.: GZIN1406016438PS-01

Tested Sample Info. : JF25

Client Ref. Info.: quick connector, quick elbow connector

JFו••×-076

Date of Sample Received: 30 Jun 2014

Testing Period: 30 Jun 2014 - 03 Jul 2014

Test Requested: Selected test(s) as requested by client.

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Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Merry Lv

Approved Signatory



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Test Report

No. CANML1412639301

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Date: 04 Aug 2014

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN14-126393.001 Black plastic

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANML1412639301		Date: 0	4 Aug 2014	Page 3 of 5
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II



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Test Report

No. CANML1412639301

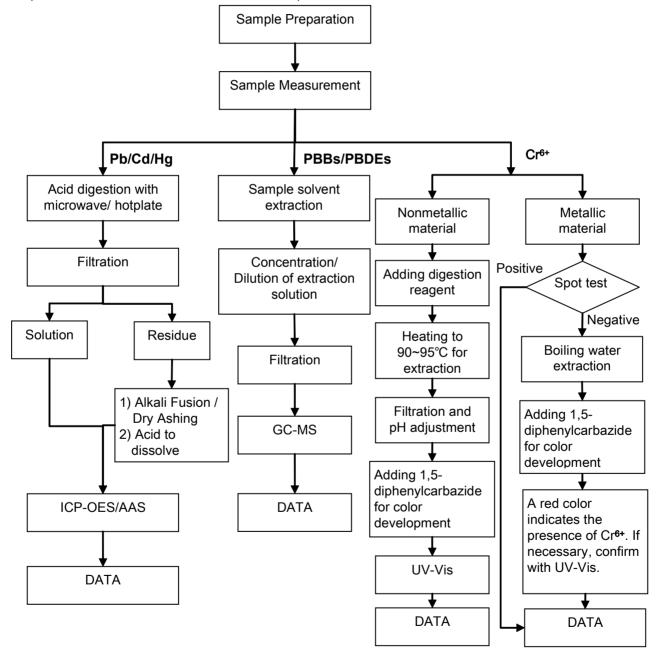
Page 4 of 5

Date: 04 Aug 2014

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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Test Report

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Date: 04 Aug 2014

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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No.: GZIN1406016437PS-03

Date: Aug 05, 2014

Page: 1 of 4

CUSTOMER NAME: GUANGZHOU JIEFA ELECTRICAL TECHNOLOGY CO.,LTD ADDRESS: NO.1, FUYONG ROAD, HUANGGE TOWN, NANSHA DISTRICT,

GUANGZHOU CITY, GUANGDONG PROVINCE

The following sample(s) was/ were submitted and identified on behalf of the client as:

: BELLOWS HOLDER Sample Name SGS Ref. No. GZIN1406016453MR

Product Specification : JF25 Product or Lot No. : 1461

Other Information : BELLOWS HOLDER, QUICK CONNECTOR, QUICK ELBOW

CONNECTOR

JF×...×-076

Date of Receipt : Jun 30, 2014 **Testing Start Date** : Jun 30, 2014 Testing End Date : Jul 11, 2014

Test result(s) : For further details, please refer to the following page(s)

Signed for SGS-CSTC Standards Technical Services Co., Ltd. GZ Branch Testing Center

Eleain Fan

Authorized signatory



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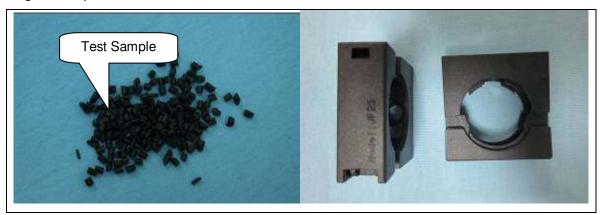
No.	Test Item	Test Method	Result	Conclusion		
1	Vertical Burning	UL 94-2013 Section 8	V-0	/		

Note: Pass: Meet the requirements;

Fail: Does not meet the requirements;

/ : Not Apply to the judgment.

Original Sample Photo:





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No.: GZIN1406016437PS-03

Date: Aug 05, 2014

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Test Item: Vertical Burning

Sample Description: Raw material Test Method: UL 94-2013 Section 8

Test Condition:

Specimen: 127 mm×12.6 mm×3.2 mm

Test Result:

Conditioning 23±2°C, 50±5%RH, 48h			70±2°C, 168h→							
					Desiccator, 23±2℃, 4h					
Specimen	1	2	3	4	5	1	2	3	4	5
Afterflame time after first flame application (s), t ₁	0	0	0	0	0	0	0	0	0	0
Afterflame time after second flame application (s), t ₂	0.3	0.4	0.5	0.7	0.5	0.7	0.6	0.7	0.8	0.9
Afterglow time after second application (s),t ₃	0	0	0	0	0	0	0	0	0	0
Total afterflame time for any condition set (s), t ₁ +t ₂			2.4			3.7				
Afterflame time plus afterglow time after second flame application (s), $t_2 + t_3$	0.3	0.4	0.5	0.7	0.5	0.7	0.6	0.7	0.8	0.9
Whether or not specimens progressed up to the holding clamp	No	No	No	No	No	No	No	No	No	No
Whether or not specimens drip flaming particles and whether the particles ignited the cotton indicator	No	No	No	No	No	No	No	No	No	No

Classification: V-0(See table 1)



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No.: GZIN1406016437PS-03

Date: Aug 05, 2014

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Table 1

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen t ₁ or t ₂	≤10s	≤30s	≤30s
Total afterflame time for any condition set $(t_1+t_2 \text{ for 5 specimens})$	≤50s	≤250s	≤250s
Afterflame plus afterglow time for each individual specimen after the second flame application (t ₂ +t ₃)	≤30s	≤60s	≤60s
Afterflame or afterglow of any specimen progress up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

Note:1.Test specimens were injection molded.

2. This test report replaces test report No. GZIN1406016437PS-02.

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