

描述: 布线端子, UL额定电压 :600V,IEC: 450 V, 线径范围: 0.2-4mm², 间距: 5.6mm, 该产品可组成不同位数的连接器!

Description: Splicing Connector, UL Rated voltage: 600V, IEC: 450 V, Wire Range: 0.2-4 mm², Pitch: 5.6mm, The product can be composed of different pole connectors!

1.商业数据 Commercial data

订货号 (Item Number)	/
包装单位 (Packaging Unit)	/
最小订货量 (Minimum Order Quantity)	/
单件重量 (Weight per piece)	/
原产地 (Country of origin)	CN

2.技术参数 Technical data

项 目 (Item)	数 据 (Data)
测试标准(Test standard)	IEC60998 / UL486C
产品间距(Pitch)	5.6 mm
产品属性 Product properties	
产品类型(Product type)	布线端子/ Splicing Connector
位数(Number of positions)	3 Poles
针距(Pitch)	/
行数(Number of rows)	1
针脚排列(Pin layout)	/
每个电位的焊针(Solder pins per potential)	/
IEC 60998	
电气特性 Electrcical Properities	
额定电压U _N (Nominal Voltage U _N)	450 V
额定电流I _N (Nominal current I _N)	32 A
接触电阻 (Contact Ressitance)	≤5 mΩ
绝缘电阻 (Insulation Ressitance)	500 MΩ
额定电压/Rated voltage	450 V
工频耐压/Withstanding Voltage	2.5KV
连接数据 Connection data	
导线连接(Conductor connection)	

布线端子-DGBSC-SG01/4-03P



连接方式(Connection method)	直插式弹簧连接 / Push-in spring connection
刚性导线横截面(Conductor cross section rigid)	0.5 - 4 mm ²
柔性导线横截面(Conductor cross section flexible)	0.5 - 4 mm ²
可连接导线横截面 AWG (Conductor cross section) AWG	24-12 AWG
柔性导线横截面, 带不含绝缘套管的冷压头(Conductor cross section flexible, with ferrule without plastic sleeve)	0.5- 2.5 mm ²
柔性导线横截面, 带套管, 带塑料绝缘套管(Conductor cross section, flexible, with ferrule, with plastic sleeve)	0.5- 2.5 mm ²
剥线长度(Stripping length)	12 mm
螺钉头驱动方式(Drive form screw head)	/
适配批头规格 (Compatible screwdriver bit specifications)	/
螺纹规格 (Thread Specification)	/
螺钉强度等级 (Screw Strength Grade)	/
紧固扭矩 (Tightening torque)	/
安装 Mounting	
工艺(Process)	/
针脚排列(Pin layout)	/
材料规格 Material specifications	
材料数据 - 接触件(Material data - contact)	
环保事项(Environmental items)	符合REACH / RoHS Compliant with REACH RoHS
材料数据 - 壳体(Material data - housing)	
绝缘材料(Insulating material)	PC
绝缘材料组(Insulating material group)	III
阻燃等级, 符合UL 94(Flammability rating according to UL 94)	V2
机械数据-制动原件(Material data – actuating element)	
绝缘材料(Insulating material)	PA GF
绝缘材料组(Insulating material group)	II
阻燃等级, 符合UL94(Flammability rating according to UL 94)	V0
机械测试 Mechanical tests	
导线损坏和松动测试(Test for conductor damage and slackening)	
规格(Specification)	IEC 60999-1
结果(Result)	通过测试 / Passed
拉伸测试(Pull-out test)	
规格(Specification)	IEC 60999-1
导线横截面 / 导线类型 / 牵引力设定值 / 实际值(Conductor cross section/conductor type/tractive force setpoint/actual value)	0.2 mm ² / 刚性 (rigid) / >10 N
	0.2 mm ² / 柔性 (flexible) / >10 N
	4 mm ² / 刚性(rigid) / >60 N
	4 mm ² / 柔性 (flexible) / >60 N
环境和真实条件 Environmental and real-life conditions	

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振动测试(Vibration test)

规格(Specification)	IEC 60068-2-6
频率(Frequency)	10 - 150 -10Hz
扫描速率(Sweep speed)	1倍频程/分钟 / 1 octave/min
振幅(Amplitude)	0.35 mm (10 Hz ... 60.1 Hz)
加速度(Acceleration)	5g (60.1 Hz ... 150 Hz)
每轴的测试周期(Test duration per axis)	2.5 h
测试方向(Test directions)	X-, Y- Z-轴/axis

冲击测试(Shock test)

规格(Specification)	IEC 60068-2-27
加速度(Acceleration)	15g
测试周期(Test duration)	<11ms
测试次数 (Test Cycle)	3次/3 cycles

老化(Aging)

规格(Specification)	IEC 60998
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环境条件(Ambient conditions)

环境温度 (运行) Ambient temperature (operation)	-40 °C - 85°C(取决于降额曲线 / depend on the derating curve)
环境温度 (存放/运输) Ambient temperature (storage/transport)	-40 °C - 70 °C
相对湿度 (存放/运输) Relative humidity (storage/transport)	30 %-70 %
环境温度 (组装) Ambient temperature (assembly)	-5 °C -80 °C

电气测试 Electrical tests

温升测试(Temperature-rise test)

规格(Specification)	IEC 60998
温度上升要求测试(Requirement temperature-rise test)	≤45K

耐压测试(High-voltage insulation test)

规格(Specification)	IEC 60998
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绝缘电阻(Insulation resistance)

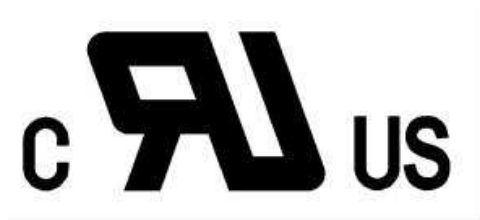
规格(Specification)	IEC 60512-3-1
绝缘电阻, 相邻接线位(Insulation resistance, neighboring positions)	> 500 MΩ

电气间隙和爬电距离(Air clearances and creepage distances)

规格(Specification)	IEC 60998
额定绝缘电压 Rated insulation voltage	450 V
工频耐压 Withstanding Voltage	2.5 kV
最小电气间隙值-不均匀电场 minimum clearance value -	4 mm

non-homogenous field	
最小爬电距离 minimum creepage distance	4 mm
海拔 (altitude)	
正常使用海拔 (Normal operating altitude)	≤2000m
UL 486C参数	
额定电压U _N (Nominal Voltage U _N)	600 V
额定电流I _N (Nominal current I _N)	/
导线连接(Conductor connection)	
可连接导线横截面 AWG (Conductor cross section) AWG	24-12 AWG
紧固扭矩(Tightening torque)	/
温升要求 (Temperature Rise)	
温升 (Temperature Rise)	≤30K(25℃ 环温/Ambient temperature)
包装规格 Packaging specifications	
包装类型(Type of packaging)	纸箱包装 / packed in cardboard
认证 Certificate	
UL 认证 (UL Certificate)符合 UL486C 标准(in accordance with UL 486C)	ID: E228872
VDE 认证 (VDE Certificate) 符合 EN60998 标准 (in accordance with EN60998)	ID: 40049336

UL证书(UL certificate)

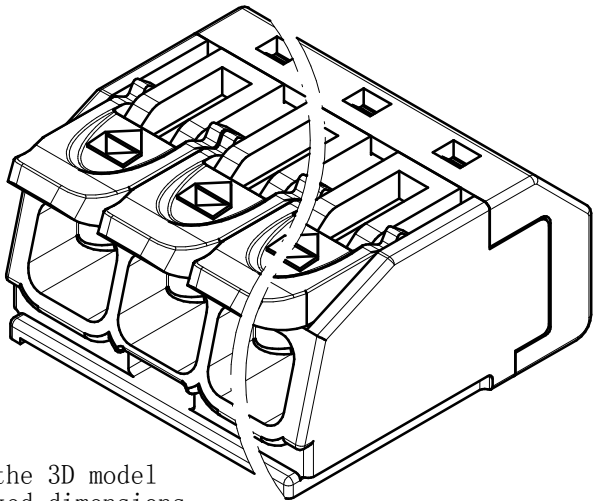
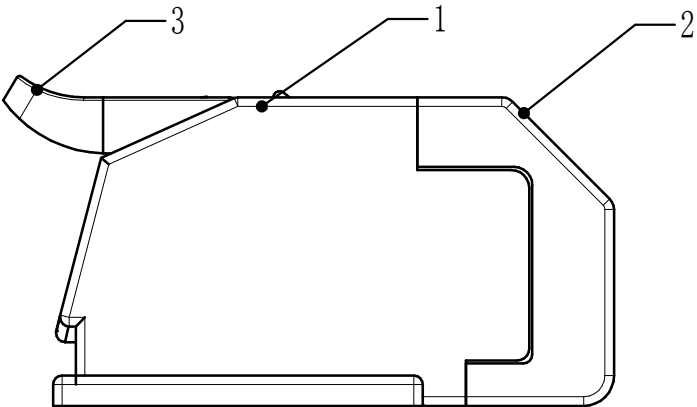


VDE证书 (VDE certificate)



3. 图纸 Drawing

5	Current carrier	Copper	Sn Plated
4	Spring	Stainless steel	/
3	Button	PA66+GF	UL94V-0
2	Cover	PC	UL94V-2
1	Housing	PC	UL94V-2
ITEM	NAME OF PART	MATERIAL	NOTES

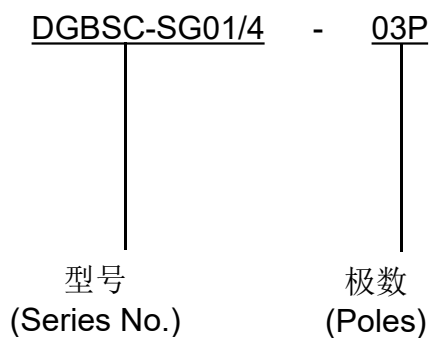


		MATERIAL:		SURFACE/COLOR:	
APPD: 秦耀志		MAT NO./REV: / 00		MAT STATUS: 批量	
CHKD: 唐本恒		NAME			
DRFT: 赵笑笑		DGBSC-SG01/4-XXP (1Y-00ZH)			
 A3		DRAWING NO. 200066324	TYPE CUSTOMER DRAWING	DRAWING STATUS 已发布	SCALE 1:1
		SHEET 1/1			

00			赵笑笑	2025.12.10
REV	ECN	DESCRIPTION	DRFT	DATE

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4. 命名规则 Product Naming Rules



5. BOM 表

序号/Item No.	名称/Name	材质 /Material	表面处理/Surface Treatment	数量 /Qty	备注/Notes
1	塑件 (Housing)	PC	/	1	N/A
2	盖板 (Cover)	PC	/	1	N/A
3	按钮 (Button)	PA66+GF	/	3	N/A
4	弹片 (Spring)	Stainless steel	/	1	N/A
5	载流体 (Current carrier)	Copper	Sn plated	1	N/A

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修订信息表/Revision history

版本 /Version	日期/Date	修订内容/Description	修订人/Revised By	审核人/Reviewed By
V1.0	2026-03-27	新制订	邹杰佳	龚徐涛
V1.1	2026-04-16	新增安规认证信息，包装规范	丁峰	
V1.2	2026-04-20	修改品名	丁峰	