

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. Commercial data

（Item Number）	/
（Packaging Unit）	/
（Minimum Order Quantity）	/
（Weight per piece）	/
（Country of origin）	CN

2. Technical data

(Item)	(Data)
(Test standard)	IEC60998 / UL486C
(Pitch)	5.6 mm
Product properties	
(Product type)	/ Splicing Connector
(Number of positions)	5 Poles
(Pitch)	/
(Number of rows)	1
(Pin layout)	/
(Solder pins per potential)	/
IEC 60998	
Electrcical Properities	
U_N (Nominal Voltage U_N)	450 V
I_N (Nominal current I_N)	32 A
（Contact Ressitance）	≤5 mΩ
（Insulation Ressitance）	500 MΩ
/Rated voltage	450 V
/Withstanding Voltage	2.5KV
Connection data	
Conductor connection)	

(Connection method)	/ Push-in spring connection
(Conductor cross section rigid)	0.5 - 4 mm²
(Conductor cross section flexible)	0.5 - 4 mm²
AWG (Conductor cross section) AWG	24-12 AWG
, (Conductor cross section flexible, with ferrule without plastic sleeve)	0.5- 2.5 mm²
, , (Conductor cross section, flexible, with ferrule, with plastic sleeve)	0.5- 2.5 mm²
(Stripping length)	12 mm
(Drive form screw head)	/
(Compatible screwdriver bit specifications)	/
(Thread Specification)	/
(Screw Strength Grade)	/
(Tightening torque)	/
Mounting	
(Process)	/
(Pin layout)	/
Material specifications	
– ***Material data - contact)***	
(Environmental items)	REACH / RoHS Compliant with REACH RoHS
- ***Material data - housing)***	
(Insulating material)	PC
(Insulating material group)	III
, UL 94(Flammability rating according to UL 94)	V2
- (Material data – actuating element)	
(Insulating material)	PA GF
(Insulating material group)	II
, UL94(Flammability rating according to UL 94)	V0
Mechanical tests	
Test for conductor damage and slackening)	
(Specification)	IEC 60999-1
(Result)	/ Passed
Pull-out test)	
(Specification)	IEC 60999-1
/ / / (Conductor cross section/conductor type/tractive force setpoint/actual value)	0.2 mm² / （ rigid） / >10 N 0.2 mm² / （ flexible） / >10 N 4 mm² / rigid） / >60 N 4 mm² / （ flexible） / >60 N
Environmental and real-life conditions	

Vibration test)	
(Specification)	IEC 60068-2-6
(Frequency)	10 - 150 -10Hz
(Sweep speed)	1 / / 1 octave/min
(Amplitude)	0.35 mm (10 Hz ... 60.1 Hz)
(Acceleration)	5g (60.1 Hz ... 150 Hz)
(Test duration per axis)	2.5 h
(Test directions)	X-, Y- Z- /axis
Shock test)	
(Specification)	IEC 60068-2-27
(Acceleration)	15g
(Test duration)	<11ms
（Test Cycle）	3 /3 cycles
Aging)	
(Specification)	IEC 60998
Ambient conditions)	
（ ）Ambient temperature (operation)	-40 ℃ - 85℃(/ depend on the derating curve)
（ / ）Ambient temperature (storage/transport)	-40 ℃ - 70 ℃
（ / ）Relative humidity (storage/transport)	30 %-70 %
（ ）Ambient temperature (assembly)	-5 ℃ -80 ℃
Electrical tests	
Temperature-rise test)	
(Specification)	IEC 60998
(Requirement temperature-rise test)	≤45K
High-voltage insulation test)	
(Specification)	IEC 60998
Insulation resistance)	
(Specification)	IEC 60512-3-1
, (Insulation resistance, neighboring positions)	> 500 MΩ
Air clearances and creepage distances)	
(Specification)	IEC 60998
Rated insulation voltage	450 V
Withstanding Voltage	2.5 kV
- minimum clearance value -	4 mm

non-homogenous field	
minimum creepage distance	4 mm
（altitude）	
(Normal operating altitude)	≤2000m
UL 486C	
U_N (Nominal Voltage U_N)	600 V
I_N (Nominal current I_N)	/
Conductor connection)	
AWG (Conductor cross section) AWG	24-12 AWG
(Tightening torque)	/
(Temperature Rise)	
(Temperature Rise)	≤30K(25℃ /Ambient temperature）
Packaging specifications	
(Type of packaging)	/ packed in cardboard
Certificate	
UL （UL Certificate UL486C in accordance with UL 486C）	ID: E228872
VDE (VDE Certificate) EN60998 （in accordance with EN60998）	ID: 40049336

UL (UL certificate)

VDE (VDE certificate)

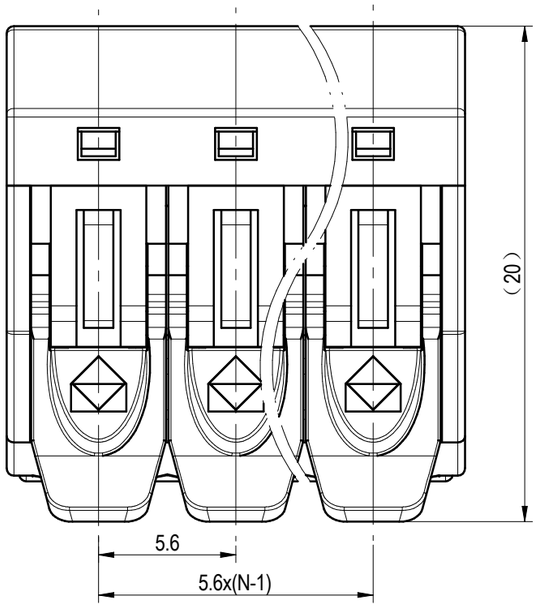
3. Drawing

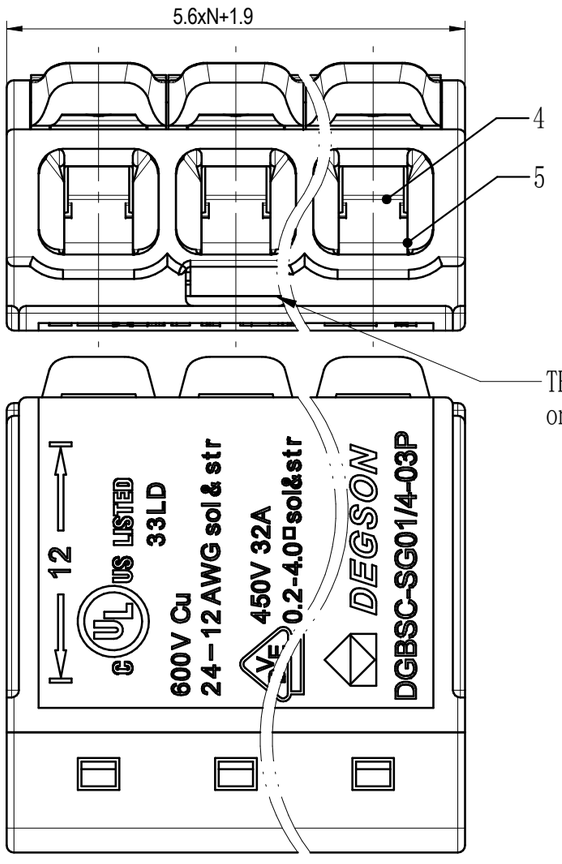
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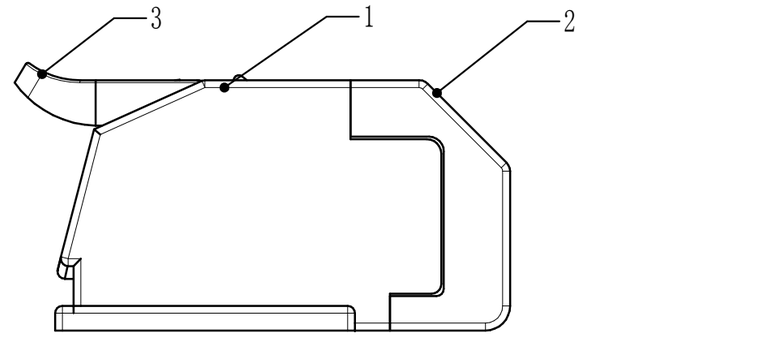
/General tolerances(mm)														
0 ~ 3	>3 ~ 6	>6 ~ 10	>10 ~ 18	>18 ~ 30	>30 ~ 50	>50 ~ 80	>80 ~ 120	>120 ~ 180	>180 ~ 250	>250 ~ 315	>315 ~ 400	>400 ~ 500	>500	0.1/10
±0.12	±0.18	±0.22	±0.26	±0.31	±0.37	±0.57	±0.80	±0.93	±1.05	±1.15	±1.60	±2.20	±2.50	±2°

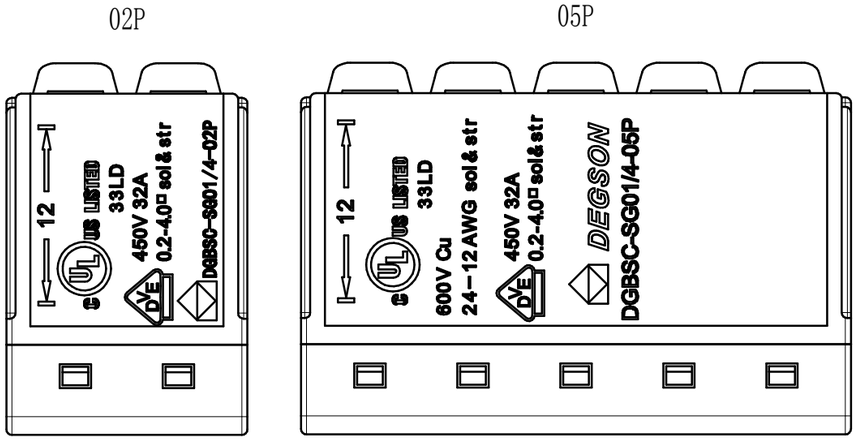
UL /UL Standard:				
/Rated Voltage(V)		600		
IEC /IEC Standard:				
/Overvoltage Category /Pollution Degree		III/3	III/2	II/2
/Rated Voltage(V)/Current(A)		/	450/32	/
/Withstanding voltage(V/1Min)		/	AC2500	/
( )/Wire Range(rigid and flexible)(AW		24～12 / 0.2～4.0		
/Pitch(mm) /Poles		5.6/N=02P/03P/05P		
/Stripping length(mm)		12		
/Operating temperature(℃)		-40～+85（IEC）		
RoHS /Conform to RoHS		Yes		
Mark"DGBSC-SG01/4-02P"：600V Cu 24-12AWG sol&str				

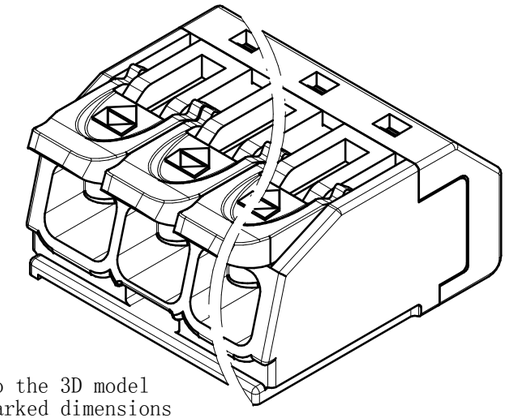
ITEM	NAME OF PART	MATERIAL	NOTES
5	Current carrier	Copper	Sn Plated
4	Spring	Stainless steel	/
3	Button	PA66+GF	UL94V-0
2	Cover	PC	UL94V-2
1	Housing	PC	UL94V-2











Please refer to the 3D model for thouse unmarked dimensions

REV	ECN	DESCRIPTION	DRFT	DATE
00				2025.12.10

DEGSON	MATERIAL:	SURFACE/COLOR:	
	MAT NO./REV: / 00	MAT STATUS:	
APPD:	2025.12.10	NAME	
CHKD:	2025.12.10	DGBSC-SG01/4-XXP (1Y-00ZH)	
DRFT:	2025.12.10		
A3	mm (inch)		

DRAWING NO.	TYPE	DRAWING STATUS	SCALE	SHEET
200066324	CUSTOMER DRAWING		1:1	1/1

4. Product Naming Rules

DGBSC-SG01/4 - 05P

(Series No.) (Poles)

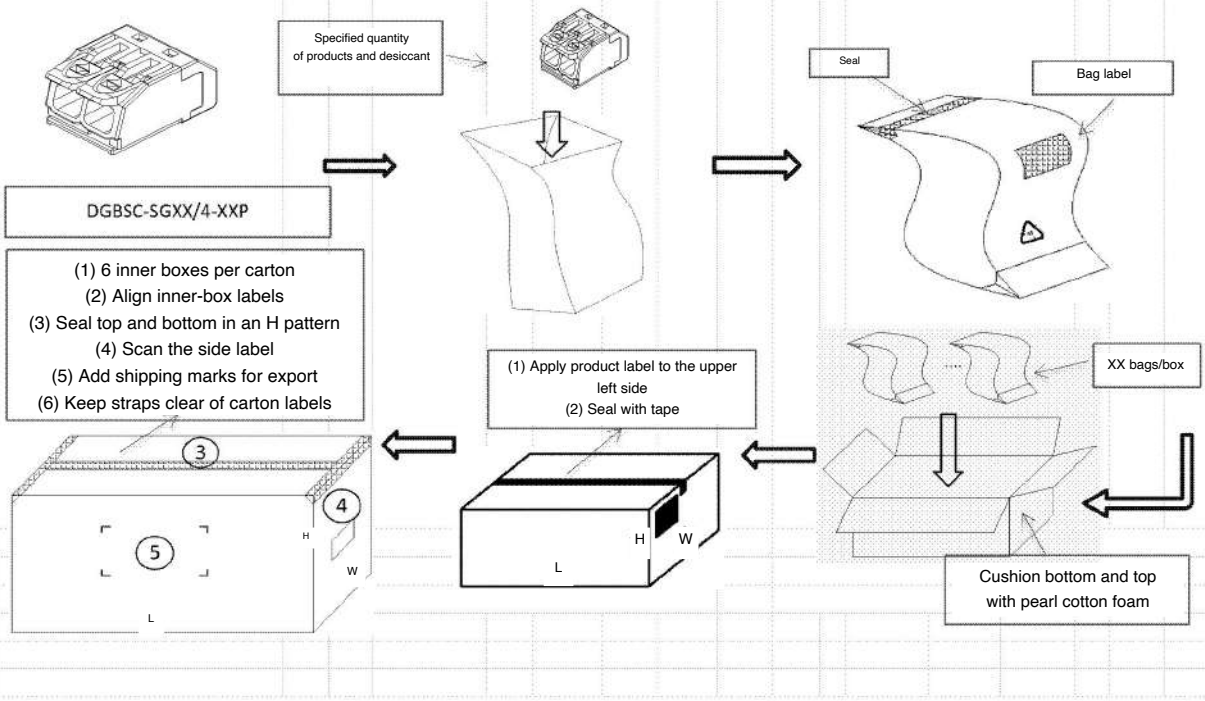
5. BOM

/Item No.	/Name	/Material	/Surface Treatment	/Qty	/Notes
1	(Housing)	PC	/	1	N/A
2	(Cover)	PC	/	1	N/A
3	(Button)	PA66+GF	/	5	N/A
4	(Spring)	Stainless steel	/	1	N/A
5	(Current carrier)	Copper	Sn plated	1	N/A

6. (Package specification)

Packaging instructions

Product name	DGBSC-SG01/4-05P	Document no.	200073274 (SOP-Y-2255)	Rev.	04
Operation	Packaging	Series	/	Page	1/8



Note: Follow these instructions unless the customer specifies different packaging requirements.

Precautions

1. Place the specified quantity of products in the bag, seal it, and apply the label.
2. Follow the diagram and cushion the bottom and top of the inner box to prevent movement.
3. Pack and label only after quality inspection and approval.
4. Pack inspected products only; fill any unused carton space with air bags.

No.	Product / specification	Bulk	Array	Layout	Layers	pcs/bag	bags/box	pcs/box	Inner boxes	pcs/carton	Material	Inner box	Carton	Gross kg/carton	Net kg/carton
1	DGBSC-SG01/4-02P	Y	/	/	/	100	6	600	6	3600	WD015	WA012	WB012	9.0	8.0
2	DGBSC-SG01/4-03P	Y	/	/	/	100	4	400	6	2400	WD015	WA012	WB012	8.7	7.7
3	DGBSC-SG01/4-05P	Y	/	/	/	100	4	400	6	2400	WD016	WA012	WB012	13.4	12.4
4	DGBSC-SG02/4-01P	Y	/	/	/	100	5	500	6	3000	WD016	WA012	WB012	8.0	7.0

Rev.	Change description	Change date	Approved	/	Reviewed		Prepared	Zhao Xin-yu

: :

WA012 — 265*205*105mm WB012 — 430*280*340mm

/Revision history

/Version	/Date	/Description	/Revised By	/Reviewed By
V1.0	2026-03-27	Initial release		
V1.1	2026-04-16	Added safety certification and packaging specifications		
V1.2	2026-04-20	Product name updated		