

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) | /<br>Splicing Connector |
| (Number of positions) | 2Poles |
| (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<br>0.2 mm² / （ flexible） / >10 N<br>4 mm² / rigid） / >60 N<br>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)

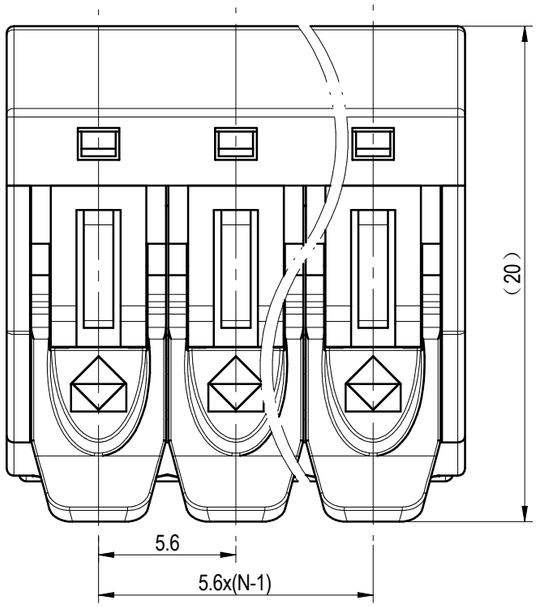
## 3. Drawing

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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° |

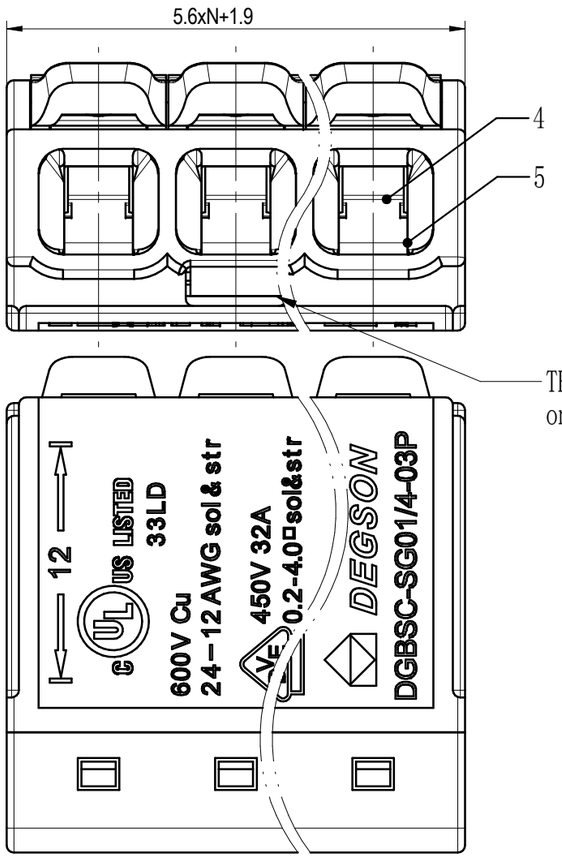
| | | | | |
|---|---|---|---|---|
| UL /UL Standard: | | | | |
| /Rated Voltage(V) | | 600 | | |
| IEC /IEC Standard: | | | | |
| /Overvoltage Category /Pollution Degree | | III/3 | III/2 | II/2 |
| /Rated Voltage(V)/Current(A) | | / | 450/32 | / |
| /Withstanding voltage(V/1Min) | | / | AC2500 | / |
| ( )/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 | | | | |

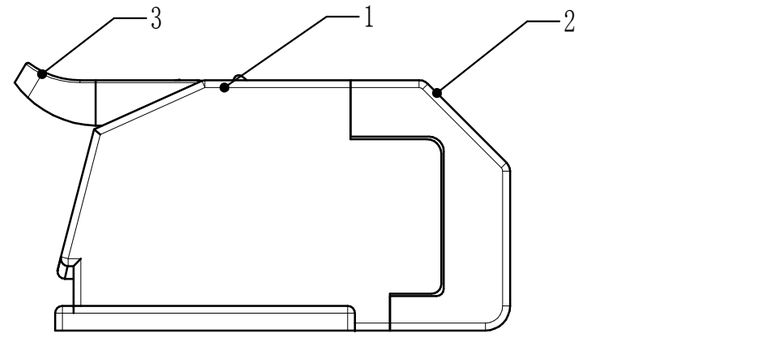
| ITEM | NAME OF PART | MATERIAL | NOTES |
|---|---|---|---|
| 5 | Current carrier | Copper | Sn Plated |
| 4 | Spring | Stainless steel | / |
| 3 | Button | PA66+GF | UL94V-0 |
| 2 | Cover | PC | UL94V-2 |
| 1 | Housing | PC | UL94V-2 |

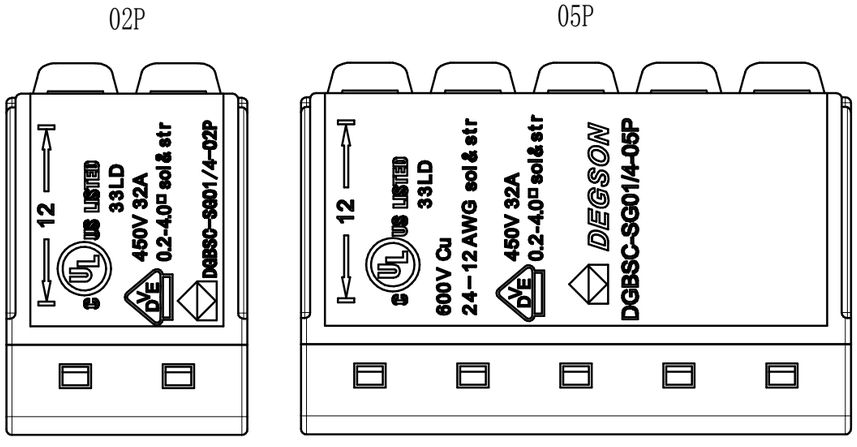


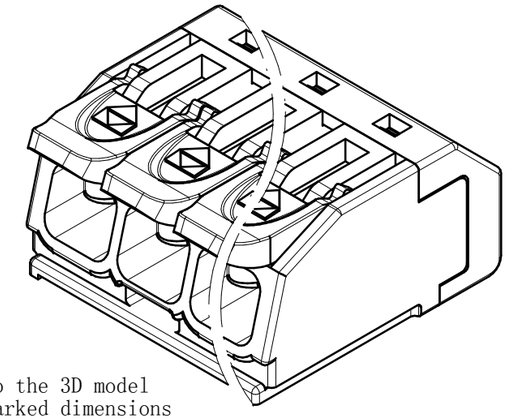






Please refer to the 3D model for thouse unmarked dimensions

| 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 - 02P

(Series No.) (Poles)

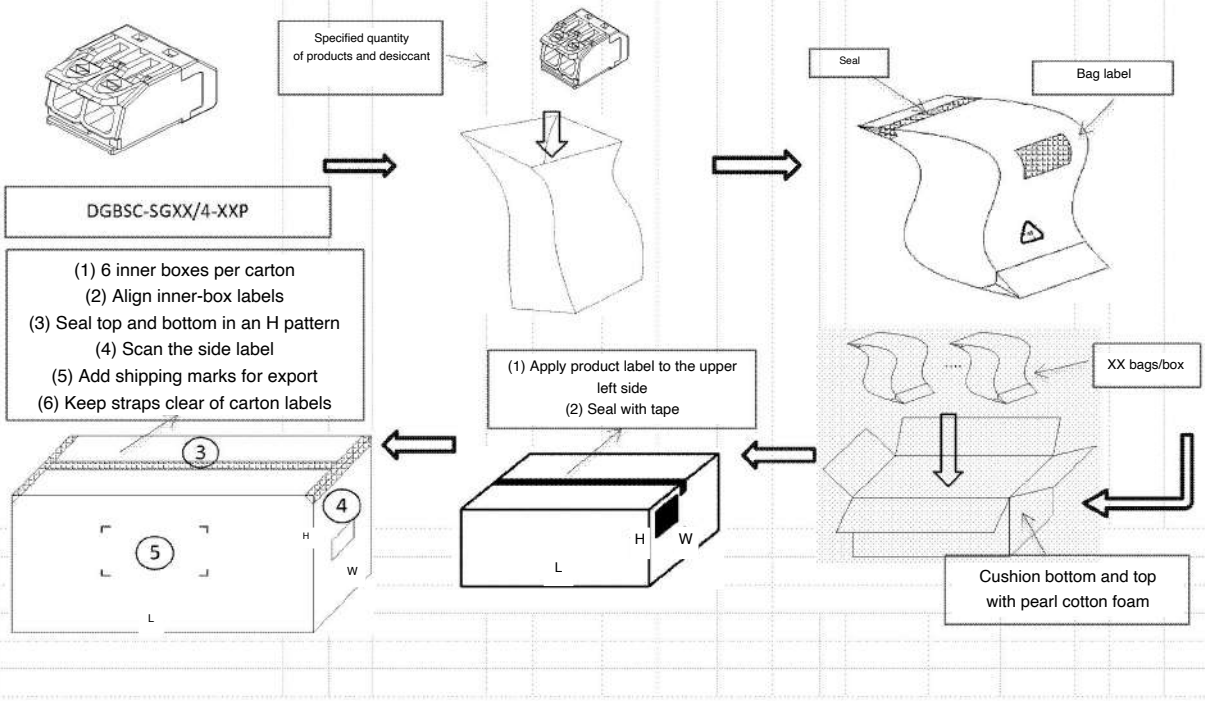
## 5. BOM

| /Item No. | /Name | /Material | /Surface Treatment | /Qty | /Notes |
|---|---|---|---|---|---|
| 1 | (Housing) | PC | / | 1 | N/A |
| 2 | (Cover) | PC | / | 1 | N/A |
| 3 | (Button) | PA66+GF | / | 2 | 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-SG01/4-02P | 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 | | |