



**General ordering data**

|                  |  |
|------------------|--|
| Order No.        | 1604580000   |
| Part designation | SL 3.5/13/180G3.2SN OR   |
| Version          | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 13, 180°, Box |
| EAN              | 4008190185510  |
| Qty.             | 50 pc(s).  |

**System parameters**

|                             |                     |
|-----------------------------|---------------------|
| Fitted to PCB               | Soldered connection |
| Outgoing elbow              | 180°                |
| Pitch                       | 3.5 mm              |
| Pitch in inch               | 0.138 inch          |
| No. of poles                | 13                  |
| Solder pin length           | 3.2 mm              |
| Can be coded                | Yes                 |
| No. of rows                 | 1                   |
| No. of solder pins per pole | 1                   |
| Dia. of fitting hole        | 1.3 mm              |
| Fitting hole tolerance      | + 0.1 mm            |
| L1 in mm                    | 42 mm               |
| L1 in inch                  | 1.654 inch          |
| Insulation resistance       | 1 MΩ                |

#### System parameters

|   |                              |
|---|------------------------------|
| Electric shock protection to DIN VDE 0470 | IP 10                        |
| Electric shock protection to DIN VDE 0470 | Safe from back-of-hand touch |

#### Material data

|                                       |                     |
|---------------------------------------|---------------------|
| Insulating material                   | PBT                 |
| Colour                                | orange              |
| colour chart                          | Similar to RAL 2000 |
| Insulating material group             | IIIa                |
| Flammability class UL 94              | V-0                 |
| CTI                                   | >= 200              |
| Contact base material                 | CuSn                |
| Contact surface                       | tinned              |
| Constant operating temp., min.        | -25 °C              |
| Constant operating temp., max.        | 100 °C              |
| Storage temperature, min.             | -25 °C              |
| Storage temperature, max.             | 55 °C               |
| Max. relative humidity during storage | 80 %                |

#### DIN IEC rating data

|  |                   |
|--|-------------------|
| Rated current, min. No. pins (Tu=20°C)   | 17 A              |
| Rated current, max. No. pins (Tu=20°C)   | 12 A              |
| Rated current, min. No. pins (Tu=40°C)   | 14.5 A            |
| Rated current, max. No. pins (Tu=40°C)   | 10 A              |
| Rated voltage for overvoltage class/pollution severity III/3                   | 160 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 2.5 kV            |
| Rated voltage for overvoltage class/pollution severity III/2                   | 160 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 2.5 kV            |
| Rated voltage for overvoltage class/pollution severity II/2                    | 320 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 2.5 kV            |
| Short-time withstand current resistance  | 3 x 1s with 100 A |

#### CSA rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |

### Approvals

Approvals institutes



### Downloads

CAD Library (P-CAD Format - Standard) SL.LIB

### Classifications

|            |             |
|------------|-------------|
| ETIM 2.0   | NK          |
| ETIM 3.0   | EC001284    |
| eClass 4.1 | 27-26-07-01 |
| eClass 5.0 | 27-26-07-01 |
| eClass 5.1 | 27-26-07-04 |

### Similar products

| Order No.  | Part designation       | Version  |
|------------|------------------------|--|
| 1604470000 | SL 3.5/2/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 2, 180°, Box  |
| 1604480000 | SL 3.5/3/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 3, 180°, Box  |
| 1604490000 | SL 3.5/4/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 4, 180°, Box  |
| 1604500000 | SL 3.5/5/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 5, 180°, Box  |
| 1604510000 | SL 3.5/6/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 6, 180°, Box  |
| 1604520000 | SL 3.5/7/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 7, 180°, Box  |
| 1604530000 | SL 3.5/8/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 8, 180°, Box  |
| 1604540000 | SL 3.5/9/180G3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 9, 180°, Box  |
| 1604550000 | SL 3.5/10/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 10, 180°, Box |
| 1604560000 | SL 3.5/11/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 11, 180°, Box |

|            |                        |  |
|------------|------------------------|--|
| 1604570000 | SL 3.5/12/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 12, 180°, Box |
| 1604590000 | SL 3.5/14/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 14, 180°, Box |
| 1604600000 | SL 3.5/15/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 15, 180°, Box |
| 1604610000 | SL 3.5/16/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 16, 180°, Box |
| 1621790000 | SL 3.5/17/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 17, 180°, Box |
| 1621800000 | SL 3.5/18/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 18, 180°, Box |
| 1621810000 | SL 3.5/19/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 19, 180°, Box |
| 1621820000 | SL 3.5/20/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 20, 180°, Box |
| 1621830000 | SL 3.5/21/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 21, 180°, Box |
| 1621840000 | SL 3.5/22/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 22, 180°, Box |
| 1621850000 | SL 3.5/23/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 23, 180°, Box |
| 1621860000 | SL 3.5/24/180G3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 24, 180°, Box |