



#### General ordering data

|                  |   |
|------------------|---|
| Order No.        | 1607120000  |
| Part designation | SL 3.5/10/90F3.2SN OR   |
| Version          | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 10, 90°, Box |
| EAN              | 4008190079710   |
| Qty.             | 50 pc(s).   |

#### System parameters

|   |                              |
|---|------------------------------|
| Fitted to PCB                             | Soldered connection          |
| Outgoing elbow                            | 90°                          |
| Pitch                                     | 3.5 mm                       |
| Pitch in inch                             | 0.138 inch                   |
| No. of poles                              | 10                           |
| 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                                  | 31.5 mm                      |
| L1 in inch                                | 1.24 inch                    |
| Insulation resistance                     | 1 MΩ                         |
| 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                |

#### Material data

|                                       |        |
|---------------------------------------|--------|
| Contact surface                       | tinned |
| Constant operating temp., min.        | -25 °C |
| Constant operating temp., max.        | 100    |
| 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   |
|------------|-----------------------|---|
| 1607040000 | SL 3.5/2/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 2, 90°, Box  |
| 1607050000 | SL 3.5/3/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 3, 90°, Box  |
| 1607060000 | SL 3.5/4/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 4, 90°, Box  |
| 1607070000 | SL 3.5/5/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 5, 90°, Box  |
| 1607080000 | SL 3.5/6/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 6, 90°, Box  |
| 1607090000 | SL 3.5/7/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 7, 90°, Box  |
| 1607100000 | SL 3.5/8/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 8, 90°, Box  |
| 1607110000 | SL 3.5/9/90F3.2SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 9, 90°, Box  |
| 1607130000 | SL 3.5/11/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 11, 90°, Box |
| 1607140000 | SL 3.5/12/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 12, 90°, Box |
| 1607150000 | SL 3.5/13/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 13, 90°, Box |
| 1607160000 | SL 3.5/14/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 14, 90°, Box |
| 1607170000 | SL 3.5/15/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 15, 90°, Box |
| 1607180000 | SL 3.5/16/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 16, 90°, Box |
| 1619770000 | SL 3.5/17/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 17, 90°, Box |
| 1619780000 | SL 3.5/18/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 18, 90°, Box |
| 1619790000 | SL 3.5/19/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 19, 90°, Box |
| 1619800000 | SL 3.5/20/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 20, 90°, Box |

|            |                       |   |
|------------|-----------------------|---|
| 1619810000 | SL 3.5/21/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 21, 90°, Box |
| 1619820000 | SL 3.5/22/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 22, 90°, Box |
| 1619830000 | SL 3.5/23/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 23, 90°, Box |
| 1619840000 | SL 3.5/24/90F3.2SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 24, 90°, Box |