

## Excellent Integrated System Limited

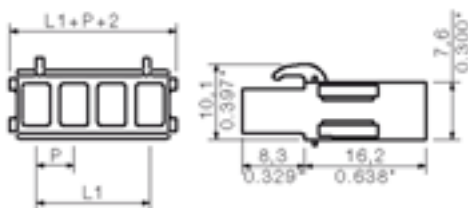
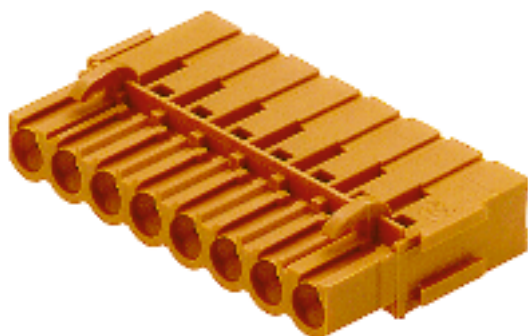
Stocking Distributor

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[Weidmüller](#)  
[1649410000](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

Product catalogue | PCB connection systems | PCB plug-in connectors | Pitch 5.00 / 5.08 mm (0.197 / 0.200 inch) | Socket connectors, crimp connection, pitch 5.00/5.08 | BLC 5.08 | BLC 5.08BR



**General ordering data**

|                  |  |
|------------------|--|
| Order No.        | 1649410000   |
| Part designation | BLC 5.08/6BR OR  |
| Version          | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 6, 180°, Box |
| EAN              | 4008190294526  |
| Qty.             | 50 pc(s).  |

**System parameters**

|   |                        |
|---|------------------------|
| Conductor connection system               | Crimp connection       |
| Outgoing direction of conductor           | 180°                   |
| Pitch                                     | 5.08 mm                |
| Pitch in inch                             | 0.2 inch               |
| No. of poles                              | 6                      |
| No. of rows                               | 1                      |
| Stripping length                          | 5 mm                   |
| L1 in mm                                  | 25.4 mm                |
| L1 in inch                                | 1 inch                 |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

**Material data**

|                     |        |
|---------------------|--------|
| Insulating material | PBT GF |
| Colour              | orange |

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**Material data**

|                           |                     |
|---------------------------|---------------------|
| colour chart              | Similar to RAL 2000 |
| Insulating material group | IIIa                |
| Flammability class UL 94  | V-0                 |
| Contact base material     | Copper alloy        |
| Contact surface           | tinned              |

**Connectable conductors**

|                            |                      |
|----------------------------|----------------------|
| Clamping range, min.       | 0.22 mm <sup>2</sup> |
| Clamping range, max.       | 2.5 mm <sup>2</sup>  |
| AWG, min.                  | 24                   |
| AWG, max.                  | 14                   |
| Flexible, min. H05(07) V-K | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K | 2.5 mm <sup>2</sup>  |

**DIN IEC rating data**

|  |                   |
|--|-------------------|
| Rated current, min. No. pins (Tu=20°C)   | 21 A              |
| Rated current, max. No. pins (Tu=20°C)   | 14.5 A            |
| Rated current, min. No. pins (Tu=40°C)   | 18 A              |
| Rated current, max. No. pins (Tu=40°C)   | 12.5 A            |
| Rated voltage for overvoltage class/pollution severity II/2                    | 400 V             |
| Rated voltage for overvoltage class/pollution severity III/2                   | 320 V             |
| Rated voltage for overvoltage class/pollution severity III/3                   | 250 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 4 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 4 kV              |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 4 kV              |
| Short-time withstand current resistance  | 3 x 1s with 120 A |

**CSA rating data**

|                                    |       |
|------------------------------------|-------|
| Rated voltage (Use group D)        | 300 V |
| Rated current (Use group D)        | 10 A  |
| AWG conductor (field wiring), min. | 26    |
| AWG conductor (field wiring), max. | 14    |

**UL 1059 rating data**

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |
| AWG conductor, min.         | 26    |
| AWG conductor, max.         | 14    |

**Approvals**

Approvals institutes



Product catalogue | PCB connection systems | PCB plug-in connectors | Pitch 5.00 / 5.08 mm (0.197 / 0.200 inch) |  
 Socket connectors, crimp connection, pitch 5.00/5.08 | BLC 5.08 | BLC 5.08BR

## Approvals

### 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  |
|------------|------------------|--|
| 1649370000 | BLC 5.08/2BR OR  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 2, 180°, Box |
| 1712110000 | BLC 5.08/2BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 2, 180°, Box |
| 1649380000 | BLC 5.08/3BR OR  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 3, 180°, Box |
| 1712120000 | BLC 5.08/3BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 3, 180°, Box |
| 1649390000 | BLC 5.08/4BR OR  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 4, 180°, Box |
| 1712130000 | BLC 5.08/4BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 4, 180°, Box |
| 1649400000 | BLC 5.08/5BR OR  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 5, 180°, Box |
| 1712140000 | BLC 5.08/5BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 5, 180°, Box |
| 1712150000 | BLC 5.08/6BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 6, 180°, Box |
| 1649420000 | BLC 5.08/7BR OR  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 7, 180°, Box |
| 1712160000 | BLC 5.08/7BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 7, 180°, Box |
| 1649430000 | BLC 5.08/8BR OR  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 8, 180°, Box |

|            |                  |   |
|------------|------------------|---|
| 1712170000 | BLC 5.08/8BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 8, 180°, Box  |
| 1649440000 | BLC 5.08/9BR OR  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 9, 180°, Box  |
| 1712180000 | BLC 5.08/9BR SW  | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 9, 180°, Box  |
| 1649450000 | BLC 5.08/10BR OR | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 10, 180°, Box |
| 1712190000 | BLC 5.08/10BR SW | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 10, 180°, Box |
| 1649460000 | BLC 5.08/11BR OR | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 11, 180°, Box |
| 1712200000 | BLC 5.08/11BR SW | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 11, 180°, Box |
| 1649470000 | BLC 5.08/12BR OR | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 12, 180°, Box |
| 1712210000 | BLC 5.08/12BR SW | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 12, 180°, Box |
| 1649480000 | BLC 5.08/13BR OR | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 13, 180°, Box |
| 1712220000 | BLC 5.08/13BR SW | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 13, 180°, Box |
| 1649490000 | BLC 5.08/14BR OR | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 14, 180°, Box |
| 1712230000 | BLC 5.08/14BR SW | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 14, 180°, Box |
| 1649500000 | BLC 5.08/15BR OR | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 15, 180°, Box |
| 1712240000 | BLC 5.08/15BR SW | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 15, 180°, Box |
| 1649510000 | BLC 5.08/16BR OR | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 16, 180°, Box |
| 1712250000 | BLC 5.08/16BR SW | PCB plug-in connector, Female connectors, Crimp connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 16, 180°, Box |