



#### General ordering data

|                  |   |
|------------------|---|
| Order No.        | 1712040000  |
| Part designation | BLC 5.08/10R SW   |
| 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: 10, 180°, Box |
| EAN              | 4008190935054   |
| 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                              | 10                     |
| Stripping length                          | 5 mm                   |
| L1 in mm                                  | 45.72 mm               |
| L1 in inch                                | 1.8 inch               |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

#### Material data

|                     |                     |
|---------------------|---------------------|
| Insulating material | PBT GF              |
| Colour              | black               |
| colour chart        | Similar to RAL 9011 |

#### Material data

|                           |              |
|---------------------------|--------------|
| 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



#### 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  |
|------------|------------------|--|
| 1610490000 | BLC 5.08/2R 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 |
| 1711960000 | BLC 5.08/2R 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 |
| 1610500000 | BLC 5.08/3R 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 |
| 1711970000 | BLC 5.08/3R 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 |
| 1610510000 | BLC 5.08/4R 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 |
| 1711980000 | BLC 5.08/4R 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 |
| 1610520000 | BLC 5.08/5R 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 |
| 1711990000 | BLC 5.08/5R 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 |
| 1610530000 | BLC 5.08/6R 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: 6, 180°, Box |
| 1712000000 | BLC 5.08/6R 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 |
| 1610540000 | BLC 5.08/7R 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 |
| 1712010000 | BLC 5.08/7R 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 |
| 1610550000 | BLC 5.08/8R 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 |

|            |                 |   |
|------------|-----------------|---|
| 1712020000 | BLC 5.08/8R 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  |
| 1610560000 | BLC 5.08/9R 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  |
| 1712030000 | BLC 5.08/9R 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  |
| 1610570000 | BLC 5.08/10R 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 |
| 1610580000 | BLC 5.08/11R 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 |
| 1712050000 | BLC 5.08/11R 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 |
| 1610590000 | BLC 5.08/12R 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 |
| 1712060000 | BLC 5.08/12R 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 |
| 1610600000 | BLC 5.08/13R 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 |
| 1712070000 | BLC 5.08/13R 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 |
| 1610610000 | BLC 5.08/14R 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 |
| 1712080000 | BLC 5.08/14R 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 |
| 1610620000 | BLC 5.08/15R 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 |
| 1712090000 | BLC 5.08/15R 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 |
| 1610630000 | BLC 5.08/16R 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 |
| 1712100000 | BLC 5.08/16R 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 |