

# PCB plug-in connectors

|                                                   |                                                 |      |
|---------------------------------------------------|-------------------------------------------------|------|
| <b>Signals &amp; data</b><br><b>3.81 mm pitch</b> | Male connectors with THR solder connection      | F.2  |
|                                                   | Male connectors with solder connection          | F.10 |
|                                                   | Socket connectors with clamping yoke connection | F.14 |



- 320 V (IEC) / 300 V (UL)
- 14.5 A (IEC) / 8 A (UL)

**Rated data to IEC 60664-1 / IEC 61984**

|                               |                 |             |             |           |
|-------------------------------|-----------------|-------------|-------------|-----------|
| Clamping range, max.          | mm <sup>2</sup> |             |             |           |
| Solid H05(07) V-U             | mm <sup>2</sup> |             |             |           |
| Stranded H07 V-R              | mm <sup>2</sup> |             |             |           |
| Flexible H05(07) V-K          | mm <sup>2</sup> |             |             |           |
| Flexible with ferrule         | mm <sup>2</sup> |             |             |           |
| Ferrule with plastic collar   | mm <sup>2</sup> |             |             |           |
| Stripping length              | mm              |             |             |           |
| Screwdriver blade             | mm              |             |             |           |
| according to norm             |                 |             |             |           |
| Tightening torque range       | Nm              |             |             |           |
| <b>Rated current</b>          |                 | <b>20°C</b> | <b>40°C</b> |           |
| <b>at ambient temperature</b> | A               | 14.5        | 12          |           |
| <b>Overvoltage category</b>   |                 | <b>III</b>  | <b>III</b>  | <b>II</b> |
| <b>Pollution severity</b>     |                 | <b>3</b>    | <b>2</b>    | <b>2</b>  |
| Rated voltage                 | V               | 160         | 160         | 320       |
| Rated impulse voltage         | kV              | 2.5         | 2.5         | 2.5       |
| <b>UL 1059 rated data</b>     |                 | <b>B</b>    | <b>C</b>    | <b>D</b>  |
| Nominal voltage               | V               | 300         | 300         |           |
| Rated current                 | A               | 8           | 8           |           |
| AWG conductor                 |                 |             |             |           |
| <b>CSA C22.2 rated data</b>   |                 | <b>B</b>    | <b>C</b>    | <b>D</b>  |
| Rated voltage                 | V               | 300         | 300         |           |
| Rated current                 | A               | 5           | 5           |           |
| AWG conductor                 |                 |             |             |           |
| <b>Material data</b>          |                 |             |             |           |
| Type of insulating material   |                 | LCP GF      |             |           |
| Flammability class acc. UL94  |                 | V-0         |             |           |
| Contact base material         |                 | CuSn        |             |           |
| Material of contact surface   |                 | tinned      |             |           |
| <b>Information</b>            |                 |             |             |           |

### Information

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

SL-SMT3.81 / BL180 / H07V-K1.5

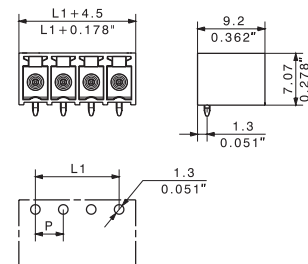
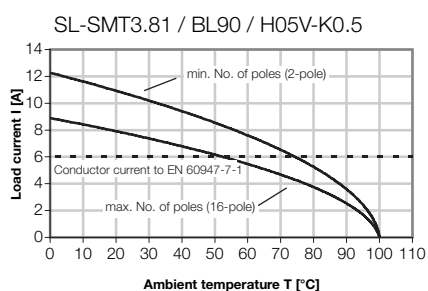
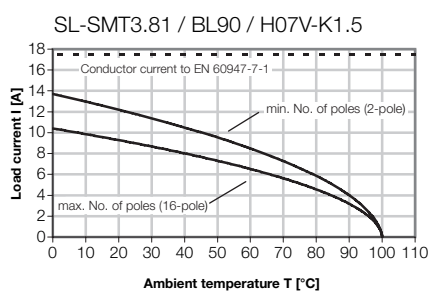
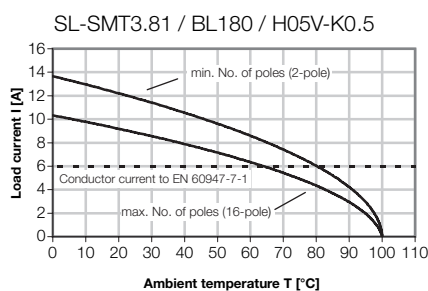
Conductor current to EN 60947-7-1

min. No. of poles (2-pole)

max. No. of poles (16-pole)

Load current I [A]

Ambient temperature T [°C]



| Solder pin length    |       |         |      | 1.5 mm     | 3.2 mm     |
|----------------------|-------|---------|------|------------|------------|
| Colour of plastic    |       |         |      | black      | black      |
| <b>Pitch 3.81 mm</b> |       |         |      |            |            |
| Poles                | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
| 2                    | 3.81  | (0.150) | 50   | 1862960000 | 1862460000 |
| 3                    | 7.62  | (0.300) | 50   | 1862970000 | 1862480000 |
| 4                    | 11.43 | (0.450) | 50   | 1862980000 | 1862490000 |
| 5                    | 15.24 | (0.600) | 50   | 1862990000 | 1862500000 |
| 6                    | 19.05 | (0.750) | 50   | 1863000000 | 1862510000 |
| 7                    | 22.86 | (0.900) | 50   | 1863040000 | 1862520000 |
| 8                    | 26.67 | (1.050) | 50   | 1863050000 | 1862530000 |
| 9                    | 30.48 | (1.200) | 50   | 1863060000 | 1862540000 |
| 10                   | 34.29 | (1.350) | 50   | 1863070000 | 1862550000 |
| 11                   | 38.10 | (1.500) | 50   | 1863080000 | 1862570000 |
| 12                   | 41.91 | (1.650) | 50   | 1863090000 | 1862730000 |
| 13                   | 45.72 | (1.800) | 50   | 1863100000 | 1862740000 |
| 14                   | 49.53 | (1.950) | 50   | 1863110000 | 1862760000 |
| 15                   | 53.34 | (2.100) | 50   | 1863120000 | 1862780000 |
| 16                   | 57.12 | (2.250) | 50   | 1863130000 | 1862800000 |

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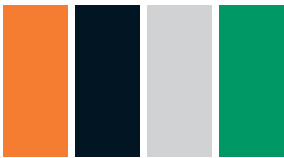
SC-SMT 3.81/90G Tape

Accessories



Possible colors

Additional colours on request



Coding

See chapter accessories

Ordering data

|                   |        |        |
|-------------------|--------|--------|
| Solder pin length | 1.5 mm | 3.2 mm |
| Colour of plastic | black  | black  |

Pitch 3.81 mm

| Poles | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
|-------|-------|---------|------|------------|------------|
| 2     | 3.81  | (0.150) | 415  | 1863140000 | 1862810000 |
| 3     | 7.62  | (0.300) | 415  | 1863150000 | 1862840000 |
| 4     | 11.43 | (0.450) | 415  | 1863160000 | 1862860000 |
| 5     | 15.24 | (0.600) | 415  | 1863170000 | 1862870000 |
| 6     | 19.05 | (0.750) | 415  | 1863180000 | 1862880000 |
| 7     | 22.86 | (0.900) | 415  | 1863190000 | 1862890000 |
| 8     | 26.67 | (1.050) | 415  | 1863200000 | 1862900000 |
| 9     | 30.48 | (1.200) | 415  | 1863210000 | 1862910000 |
| 10    | 34.29 | (1.350) | 415  | 1863220000 | 1862930000 |



Marking strips

See chapter accessories



Tape widths: 32, 44, 56, 72, 88

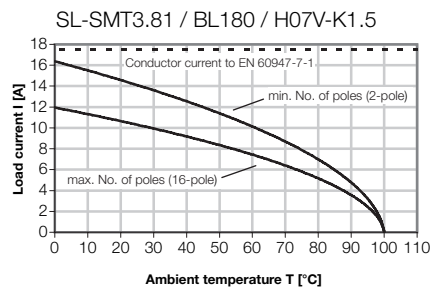
## SC-SMT 3.81/90LF



The high-temperature-resistant, angled male connector has been optimised for automatic assembly without pick&place pad and can be supplied packaged in antistatic straps. The solder flange version provides for additional fixity to the PCB without screws. The Weidmüller male connector with 3.81 mm pitch has a closed contact cavity and provides space for printing and coding.

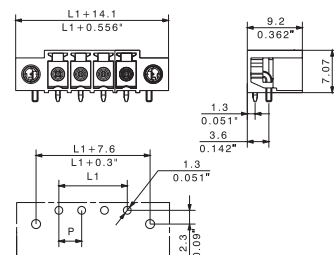
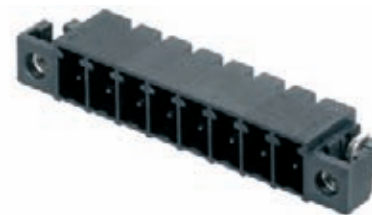
- 320 V (IEC) / 300 V (UL)
- 14.5 A (IEC) / 8 A (UL)

## Derating curve



## SC-SMT 3.81/90LF Box

with solder flange



## Technical data

## Rated data to IEC 60664-1 / IEC 61984

|                             |                 |  |
|-----------------------------|-----------------|--|
| Clamping range, max.        | mm <sup>2</sup> |  |
| Solid H05(07) V-U           | mm <sup>2</sup> |  |
| Stranded H07 V-R            | mm <sup>2</sup> |  |
| Flexible H05(07) V-K        | mm <sup>2</sup> |  |
| Flexible with ferrule       | mm <sup>2</sup> |  |
| Ferrule with plastic collar | mm <sup>2</sup> |  |
| Stripping length            | mm              |  |
| Screwdriver blade           | mm              |  |
| according to norm           |                 |  |
| Tightening torque range     | Nm              |  |

| Rated current at ambient temperature | 20°C | 40°C |
|--------------------------------------|------|------|
| A                                    | 14.5 | 12   |

| Overvoltage category | III | III | II |
|----------------------|-----|-----|----|
| Pollution severity   | 3   | 2   | 2  |

|                       |    |     |     |     |
|-----------------------|----|-----|-----|-----|
| Rated voltage         | V  | 160 | 160 | 320 |
| Rated impulse voltage | kV | 2.5 | 2.5 | 2.5 |

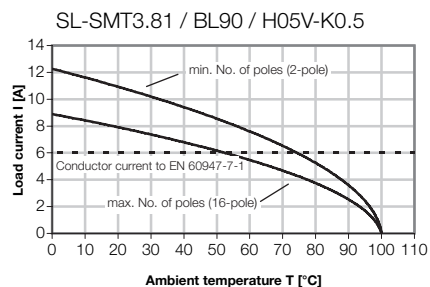
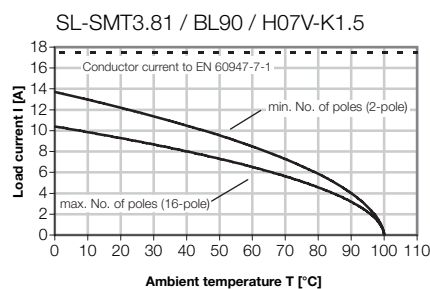
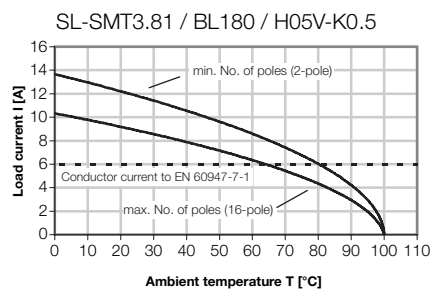
| UL 1059 rated data | B | C   | D   |
|--------------------|---|-----|-----|
| Nominal voltage    | V | 300 | 300 |
| Rated current      | A | 8   | 8   |
| AWG conductor      |   |     |     |

| CSA C22.2 rated data | B | C   | D   |
|----------------------|---|-----|-----|
| Rated voltage        | V | 300 | 300 |
| Rated current        | A | 5   | 5   |
| AWG conductor        |   |     |     |

| Material data                |        |
|------------------------------|--------|
| Type of insulating material  | LCP GF |
| Flammability class acc. UL94 | V-0    |
| Contact base material        | CuSn   |
| Material of contact surface  | tinned |

## Information

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.



## Ordering data

| Solder pin length | 1.5 mm | 3.2 mm |
|-------------------|--------|--------|
| Colour of plastic | black  | black  |

| Pitch 3.81 mm |               |      |
|---------------|---------------|------|
| Poles         | L1 mm (inch)  | Qty. |
| 2             | 3.81 (0.150)  | 50   |
| 3             | 7.62 (0.300)  | 50   |
| 4             | 11.43 (0.450) | 50   |
| 5             | 15.24 (0.600) | 50   |
| 6             | 19.05 (0.750) | 50   |
| 7             | 22.86 (0.900) | 50   |
| 8             | 26.67 (1.050) | 50   |
| 9             | 30.48 (1.200) | 50   |
| 10            | 34.29 (1.350) | 50   |
| 11            | 38.10 (1.500) | 50   |
| 12            | 41.91 (1.650) | 50   |
| 13            | 45.72 (1.800) | 50   |
| 14            | 49.53 (1.950) | 50   |
| 15            | 53.34 (2.100) | 50   |
| 16            | 57.12 (2.250) | 50   |

## SC-SMT 3.81/90LF Tape

with solder flange



## Accessories

### Possible colors

Additional colours on request



## Coding

See chapter accessories

## Ordering data

|                   |        |        |
|-------------------|--------|--------|
| Solder pin length | 1.5 mm | 3.2 mm |
| Colour of plastic | black  | black  |

## Pitch 3.81 mm

| Poles    | 1 mm  | (inch)  | Qty. | Order No.         | Order No.         |
|----------|-------|---------|------|-------------------|-------------------|
| <b>2</b> | 3.81  | (0.150) | 415  | <b>1862720000</b> | <b>1863890000</b> |
| <b>3</b> | 7.62  | (0.300) | 415  | <b>1862750000</b> | <b>1863970000</b> |
| <b>4</b> | 11.43 | (0.450) | 415  | <b>1862770000</b> | <b>1863980000</b> |
| <b>5</b> | 15.24 | (0.600) | 415  | <b>1862790000</b> | <b>1863990000</b> |
| <b>6</b> | 19.05 | (0.750) | 415  | <b>1862820000</b> | <b>1864000000</b> |
| <b>7</b> | 22.86 | (0.900) | 415  | <b>1862830000</b> | <b>1864010000</b> |
| <b>8</b> | 26.67 | (1.050) | 415  | <b>1862850000</b> | <b>1864020000</b> |



## Marking strips

See chapter accessories



Tape widths: 32, 44, 56, 72, 88

## SC-SMT 3.81/180G



The plug-in connector system with a 3.81 mm (0.15 inch) pitch has been complemented by a high-temperature-resistant, straight male connector. This version, suitable for reflow soldering, has been optimised for automatic assembly with pick&place pad and can be supplied packaged in antistatic straps. The pin length is suitable for automatic assembly and reflow soldering (1.5 mm) but also lead-free wave soldering (3.2 mm).

- 320 V (IEC) / 300 V (UL)
- 14.5 A (IEC) / 8 A (UL)

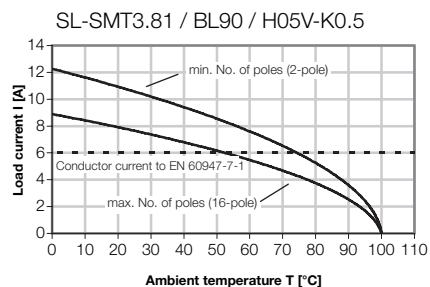
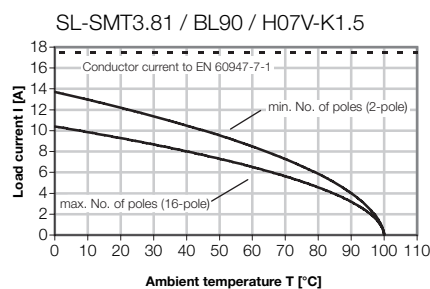
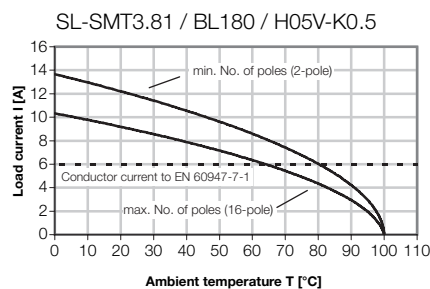
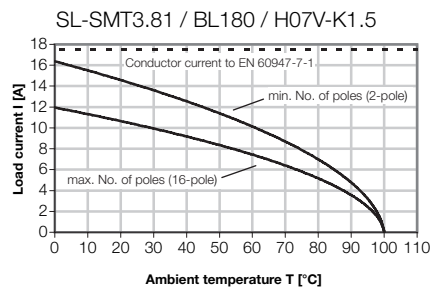
## Technical data

| Rated data to IEC 60664-1 / IEC 61984 |                 |        |      |     |
|---------------------------------------|-----------------|--------|------|-----|
| Clamping range, max.                  | mm <sup>2</sup> |        |      |     |
| Solid H05(07) V-U                     | mm <sup>2</sup> |        |      |     |
| Stranded H07 V-R                      | mm <sup>2</sup> |        |      |     |
| Flexible H05(07) V-K                  | mm <sup>2</sup> |        |      |     |
| Flexible with ferrule                 | mm <sup>2</sup> |        |      |     |
| Ferrule with plastic collar           | mm <sup>2</sup> |        |      |     |
| Stripping length                      | mm              |        |      |     |
| Screwdriver blade                     | mm              |        |      |     |
| according to norm                     |                 |        |      |     |
| Tightening torque range               | Nm              |        |      |     |
| Rated current at ambient temperature  |                 |        |      |     |
|                                       | A               | 20°C   | 40°C |     |
|                                       |                 | 14.5   | 12   |     |
| Overvoltage category                  |                 |        |      |     |
|                                       |                 | III    | III  | II  |
| Pollution severity                    |                 |        |      |     |
|                                       |                 | 3      | 2    | 2   |
| Rated voltage                         | V               | 160    | 160  | 320 |
| Rated impulse voltage                 | kV              | 2.5    | 2.5  | 2.5 |
| UL 1059 rated data                    |                 |        |      |     |
|                                       |                 | B      | C    | D   |
| Nominal voltage                       | V               | 300    |      | 300 |
| Rated current                         | A               | 8      |      | 8   |
| AWG conductor                         |                 |        |      |     |
| CSA C22.2 rated data                  |                 |        |      |     |
|                                       |                 | B      | C    | D   |
| Rated voltage                         | V               | 300    |      | 300 |
| Rated current                         | A               | 5      |      | 5   |
| AWG conductor                         |                 |        |      |     |
| Material data                         |                 |        |      |     |
| Type of insulating material           |                 | LCP GF |      |     |
| Flammability class acc. UL94          |                 | V-0    |      |     |
| Contact base material                 |                 | CuSn   |      |     |
| Material of contact surface           |                 | tinned |      |     |

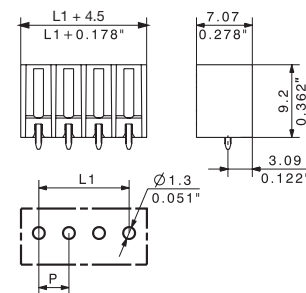
## Information

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

## Derating curve



## SC-SMT 3.81/180G Box



## Ordering data

| Solder pin length |       |         |      | 1.5 mm     | 3.2 mm     |
|-------------------|-------|---------|------|------------|------------|
| Colour of plastic |       |         |      | black      | black      |
| Pitch 3.81 mm     |       |         |      |            |            |
| Poles             | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
| 2                 | 3.81  | (0.150) | 50   | 1863720000 | 1862920000 |
| 3                 | 7.62  | (0.300) | 50   | 1863730000 | 1862940000 |
| 4                 | 11.43 | (0.450) | 50   | 1863750000 | 1862950000 |
| 5                 | 15.24 | (0.600) | 50   | 1863780000 | 1863010000 |
| 6                 | 19.05 | (0.750) | 50   | 1863830000 | 1863020000 |
| 7                 | 22.86 | (0.900) | 50   | 1863880000 | 1863030000 |
| 8                 | 26.67 | (1.050) | 50   | 1863900000 | 1863240000 |
| 9                 | 30.48 | (1.200) | 50   | 1863910000 | 1863270000 |
| 10                | 34.29 | (1.350) | 50   | 1863920000 | 1863290000 |
| 11                | 38.10 | (1.500) | 50   | 1863930000 | 1863320000 |
| 12                | 41.91 | (1.650) | 50   | 1863940000 | 1863330000 |
| 13                | 45.72 | (1.800) | 50   | 1863950000 | 1863350000 |
| 14                | 49.53 | (1.950) | 50   | 1863960000 | 1863370000 |
| 15                | 53.34 | (2.100) | 50   | 1864030000 | 1863400000 |
| 16                | 57.12 | (2.250) | 50   | 1864040000 | 1863420000 |

## SC-SMT 3.81/180G Tape

## Accessories



### Possible colors

Additional colours on request



## Coding

See chapter accessories

## Ordering data

|                   |        |        |
|-------------------|--------|--------|
| Solder pin length | 1.5 mm | 3.2 mm |
| Colour of plastic | black  | black  |

## Pitch 3.81 mm

| Poles | 1 mm (inch)   | Qty. | Order No.  | Order No.  |
|-------|---------------|------|------------|------------|
| 2     | 3.81 (0.150)  | 300  | 1864050000 | 1863450000 |
| 3     | 7.62 (0.300)  | 300  | 1864060000 | 1863470000 |
| 4     | 11.43 (0.450) | 300  | 1864290000 | 1863490000 |
| 5     | 15.24 (0.600) | 300  | 1864300000 | 1863540000 |
| 6     | 19.05 (0.750) | 300  | 1864310000 | 1863560000 |
| 7     | 22.86 (0.900) | 300  | 1864320000 | 1863570000 |
| 8     | 26.67 (1.050) | 300  | 1864330000 | 1863590000 |
| 9     | 30.48 (1.200) | 300  | 1864340000 | 1863630000 |
| 10    | 34.29 (1.350) | 300  | 1864350000 | 1863660000 |



## Marking strips

See chapter accessories



Tape widths: 32, 44, 56, 72, 88

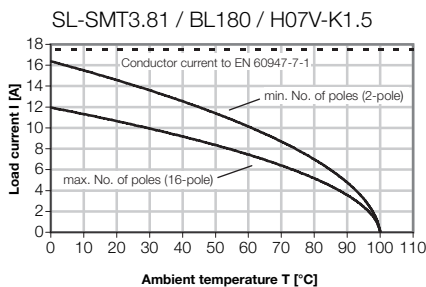
## SC-SMT 3.81/180LF



The high-temperature-resistant, straight male connector has been optimised for automatic assembly with pick&place pad and can be supplied packaged in antistatic straps. The solder flange version provides for additional fixity to the PCB without screws. The Weidmüller male connector with 3.81 mm pitch has a closed contact cavity and provides space for printing and coding.

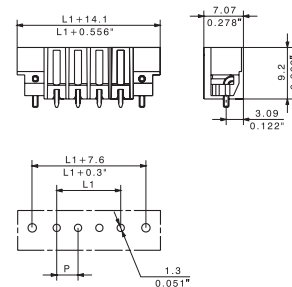
- 320 V (IEC) / 300 V (UL)
- 14.5 A (IEC) / 8 A (UL)

## Derating curve



## SC-SMT 3.81/180LF Box

with solder flange

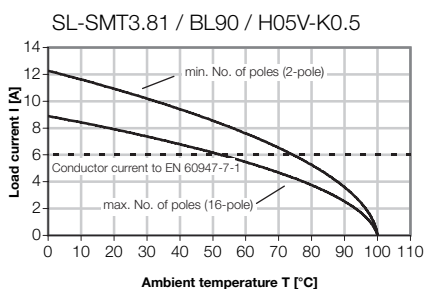
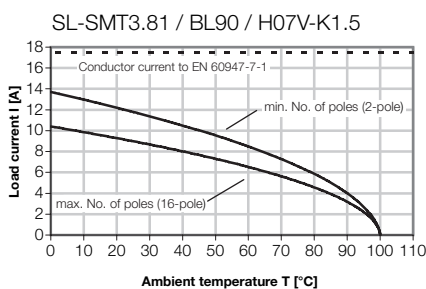
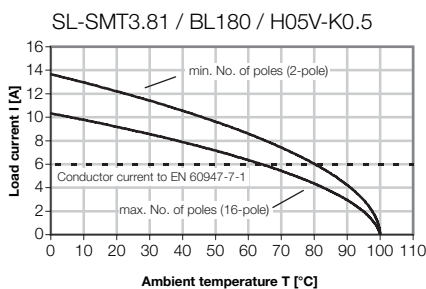


## Technical data

| Rated data to IEC 60664-1 / IEC 61984       |                 |        |      |
|---------------------------------------------|-----------------|--------|------|
| Clamping range, max.                        | mm <sup>2</sup> |        |      |
| Solid H05(07) V-U                           | mm <sup>2</sup> |        |      |
| Stranded H07 V-R                            | mm <sup>2</sup> |        |      |
| Flexible H05(07) V-K                        | mm <sup>2</sup> |        |      |
| Flexible with ferrule                       | mm <sup>2</sup> |        |      |
| Ferrule with plastic collar                 | mm <sup>2</sup> |        |      |
| Stripping length                            | mm              |        |      |
| Screwdriver blade                           | mm              |        |      |
| according to norm                           |                 |        |      |
| Tightening torque range                     | Nm              |        |      |
| <b>Rated current at ambient temperature</b> |                 |        |      |
|                                             | A               | 20°C   | 40°C |
|                                             |                 | 14.5   | 12   |
| <b>Overvoltage category</b>                 |                 |        |      |
| <b>Pollution severity</b>                   |                 |        |      |
|                                             |                 | III    | III  |
|                                             |                 | 3      | 2    |
|                                             |                 | 2      | 2    |
| Rated voltage                               | V               | 160    | 160  |
| Rated impulse voltage                       | kV              | 2.5    | 2.5  |
| <b>UL 1059 rated data</b>                   |                 |        |      |
|                                             |                 | B      | C    |
|                                             |                 | D      |      |
| Nominal voltage                             | V               | 300    | 300  |
| Rated current                               | A               | 8      | 8    |
| AWG conductor                               |                 |        |      |
| <b>CSA C22.2 rated data</b>                 |                 |        |      |
|                                             |                 | B      | C    |
|                                             |                 | D      |      |
| Rated voltage                               | V               | 300    | 300  |
| Rated current                               | A               | 5      | 5    |
| AWG conductor                               |                 |        |      |
| <b>Material data</b>                        |                 |        |      |
| Type of insulating material                 |                 | LCP GF |      |
| Flammability class acc. UL94                |                 | V-0    |      |
| Contact base material                       |                 | CuSn   |      |
| Material of contact surface                 |                 | tinned |      |

## Information

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.



## Ordering data

| Solder pin length    |               | 1.5 mm | 3.2 mm     |
|----------------------|---------------|--------|------------|
| Colour of plastic    |               | black  | black      |
| <b>Pitch 3.81 mm</b> |               |        |            |
| Poles                | L1 mm (inch)  | Qty.   | Order No.  |
| 2                    | 3.81 (0.150)  | 50     | 1864070000 |
| 3                    | 7.62 (0.300)  | 50     | 1864080000 |
| 4                    | 11.43 (0.450) | 50     | 1864090000 |
| 5                    | 15.24 (0.600) | 50     | 1864100000 |
| 6                    | 19.05 (0.750) | 50     | 1864110000 |
| 7                    | 22.86 (0.900) | 50     | 1864120000 |
| 8                    | 26.67 (1.050) | 50     | 1864130000 |
| 9                    | 30.48 (1.200) | 50     | 1864140000 |
| 10                   | 34.29 (1.350) | 50     | 1864150000 |
| 11                   | 38.10 (1.500) | 50     | 1864160000 |
| 12                   | 41.91 (1.650) | 50     | 1864170000 |
| 13                   | 45.72 (1.800) | 50     | 1864180000 |
| 14                   | 49.53 (1.950) | 50     | 1864190000 |
| 15                   | 53.34 (2.100) | 50     | 1864200000 |
| 16                   | 57.12 (2.250) | 50     | 1864210000 |

## SC-SMT 3.81/180LF Tape

with solder flange



## Accessories

### Possible colors

Additional colours on request



## Coding

See chapter accessories

## Ordering data

|                   |        |        |
|-------------------|--------|--------|
| Solder pin length | 1.5 mm | 3.2 mm |
| Colour of plastic | black  | black  |

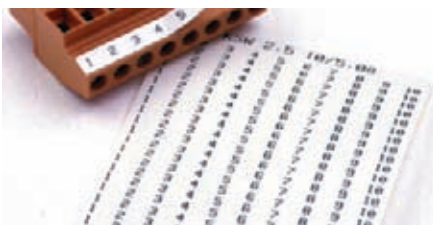
## Pitch 3.81 mm

| Poles: 0.51 mm |               |      |            |            |
|----------------|---------------|------|------------|------------|
| Poles: 1 mm    | (inch)        | Qty. | Order No.  | Order No.  |
| 2              | 3.81 (0.150)  | 300  | 1864220000 | 1863550000 |
| 3              | 7.62 (0.300)  | 300  | 1864230000 | 1863510000 |
| 4              | 11.43 (0.450) | 300  | 1864240000 | 1863530000 |
| 5              | 15.24 (0.600) | 300  | 1864250000 | 1863580000 |
| 6              | 19.05 (0.750) | 300  | 1864260000 | 1863600000 |
| 7              | 22.86 (0.900) | 300  | 1864270000 | 1863620000 |
| 8              | 26.67 (1.050) | 300  | 1864280000 | 1863640000 |



## Marking strips

See chapter accessories



Tape widths: 32, 44, 56, 72, 88

## Male connectors with solder connection

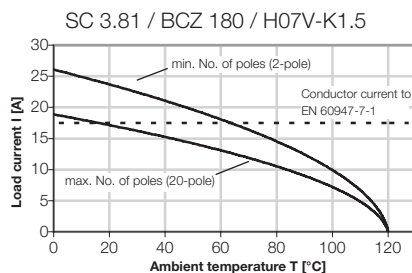
### SC 3.81/90



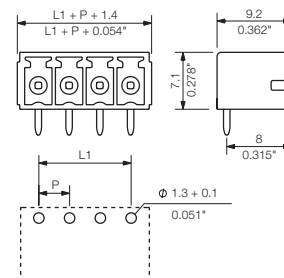
The male connector system with a 3.81 mm (0.15 inch) pitch extends the range of products for the designer in the practical 3... mm pitch. The male connector is available with a 90° (angled) outlet direction. The Weidmüller male connectors are compatible with the layout of customary plug-in connectors with 3.81 mm pitch and provide space for printing and coding.

- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 14 A (UL)

### Derating curve



### SC 3.81/90G

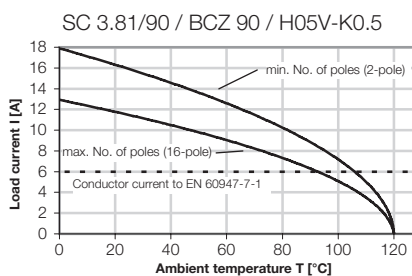
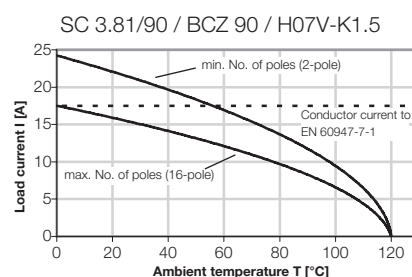
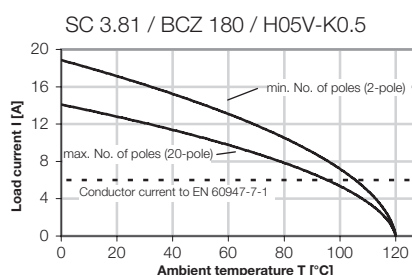


### Technical data

| Rated data to IEC 60664-1 / IEC 61984       |                 |        |      |
|---------------------------------------------|-----------------|--------|------|
| Clamping range, max.                        | mm <sup>2</sup> |        |      |
| Solid H05(07) V-U                           | mm <sup>2</sup> |        |      |
| Stranded H07 V-R                            | mm <sup>2</sup> |        |      |
| Flexible H05(07) V-K                        | mm <sup>2</sup> |        |      |
| Flexible with ferrule                       | mm <sup>2</sup> |        |      |
| Ferrule with plastic collar                 | mm <sup>2</sup> |        |      |
| Stripping length                            | mm              |        |      |
| Screwdriver blade                           | mm              |        |      |
| according to norm                           |                 |        |      |
| Tightening torque range                     | Nm              |        |      |
| <b>Rated current at ambient temperature</b> |                 |        |      |
|                                             | A               | 20°C   | 40°C |
|                                             |                 | 17.5   | 17.5 |
| <b>Overvoltage category</b>                 |                 |        |      |
| <b>Pollution severity</b>                   |                 |        |      |
|                                             |                 | III    | III  |
|                                             |                 | 3      | 2    |
|                                             |                 | 2      | 2    |
| Rated voltage                               | V               | 125    | 125  |
| Rated impulse voltage                       | kV              | 2.5    | 2.5  |
| <b>UL 1059 rated data</b>                   |                 |        |      |
|                                             |                 | B      | C    |
|                                             |                 | D      |      |
| Nominal voltage                             | V               | 300    | 300  |
| Rated current                               | A               | 14     | 10   |
| AWG conductor                               |                 |        |      |
| <b>CSA C22.2 rated data</b>                 |                 |        |      |
|                                             |                 | B      | C    |
|                                             |                 | D      |      |
| Rated voltage                               | V               | 300    | 300  |
| Rated current                               | A               | 14     | 10   |
| AWG conductor                               |                 |        |      |
| <b>Material data</b>                        |                 |        |      |
| Type of insulating material                 |                 | PA GF  |      |
| Flammability class acc. UL94                |                 | V-0    |      |
| Contact base material                       |                 | CuSn   |      |
| Material of contact surface                 |                 | tinned |      |

#### Information

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Technical specifications applicable from October 2007

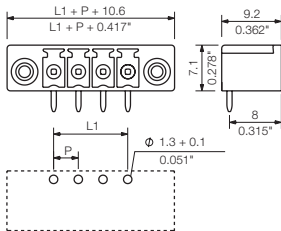


### Ordering data

| Solder pin length |       |         | 3.2 mm | 3.2 mm     |
|-------------------|-------|---------|--------|------------|
| Colour of plastic |       |         | orange | black      |
| Pitch 3.81 mm     |       |         |        |            |
| Poles             | L1 mm | (inch)  | Qty.   | Order No.  |
| 2                 | 3.81  | (0.150) | 100    | 1942020000 |
| 3                 | 7.62  | (0.300) | 50     | 1942040000 |
| 4                 | 11.43 | (0.450) | 50     | 1942070000 |
| 5                 | 15.24 | (0.600) | 50     | 1942090000 |
| 6                 | 19.05 | (0.750) | 50     | 1942100000 |
| 7                 | 22.86 | (0.900) | 50     | 1942120000 |
| 8                 | 26.67 | (1.050) | 50     | 1942130000 |
| 9                 | 30.48 | (1.200) | 50     | 1942140000 |
| 10                | 34.29 | (1.350) | 50     | 1942150000 |
| 11                | 38.10 | (1.500) | 50     | 1942160000 |
| 12                | 41.91 | (1.650) | 50     | 1942170000 |
| 13                | 45.72 | (1.800) | 50     | 1942180000 |
| 14                | 49.53 | (1.950) | 50     | 1942190000 |
| 15                | 53.34 | (2.100) | 50     | 1942200000 |
| 16                | 57.12 | (2.250) | 50     | 1942210000 |
| 17                | 60.93 | (2.400) | 50     | 1942220000 |
| 18                | 64.74 | (2.550) | 50     | 1942230000 |
| 19                | 68.55 | (2.700) | 50     | 1942240000 |
| 20                | 72.36 | (2.850) | 50     | 1942250000 |

SC 3.81/90F

with screw flange



Accessories

Possible colors

Additional colours on request



Coding

See chapter accessories

Ordering data

|                   |        |        |
|-------------------|--------|--------|
| Solder pin length | 3.2 mm | 3.2 mm |
| Colour of plastic | orange | black  |

| Poles | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
|-------|-------|---------|------|------------|------------|
| 2     | 3.81  | (0.150) | 100  | 1942450000 | 1793330000 |
| 3     | 7.62  | (0.300) | 50   | 1942460000 | 1793340000 |
| 4     | 11.43 | (0.450) | 50   | 1942470000 | 1793350000 |
| 5     | 15.24 | (0.600) | 50   | 1942480000 | 1793360000 |
| 6     | 19.05 | (0.750) | 50   | 1942490000 | 1793370000 |
| 7     | 22.86 | (0.900) | 50   | 1942500000 | 1942740000 |
| 8     | 26.67 | (1.050) | 50   | 1942510000 | 1793380000 |
| 9     | 30.48 | (1.200) | 50   | 1942520000 | 1942750000 |
| 10    | 34.29 | (1.350) | 50   | 1942530000 | 1793390000 |
| 11    | 38.10 | (1.500) | 50   | 1942540000 | 1942760000 |
| 12    | 41.91 | (1.650) | 50   | 1942550000 | 1793400000 |
| 13    | 45.72 | (1.800) | 50   | 1942560000 | 1942770000 |
| 14    | 49.53 | (1.950) | 50   | 1942570000 | 1942780000 |
| 15    | 53.34 | (2.100) | 50   | 1942580000 | 1942790000 |
| 16    | 57.12 | (2.250) | 50   | 1942590000 | 1793410000 |
| 17    | 60.93 | (2.400) | 50   | 1942600000 | 1942800000 |
| 18    | 64.74 | (2.550) | 50   | 1942610000 | 1942810000 |
| 19    | 68.55 | (2.700) | 50   | 1942620000 | 1942820000 |
| 20    | 72.36 | (2.850) | 50   | 1942630000 | 1942830000 |



Marking strips

See chapter accessories



Male connectors with solder connection

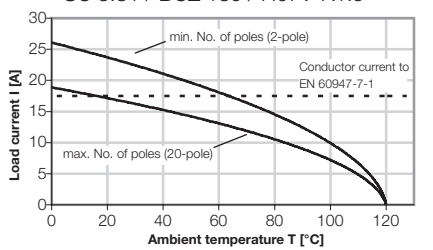
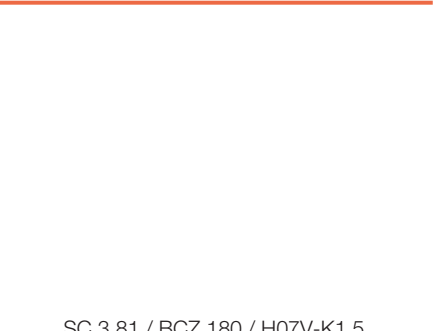
SC 3.81/180



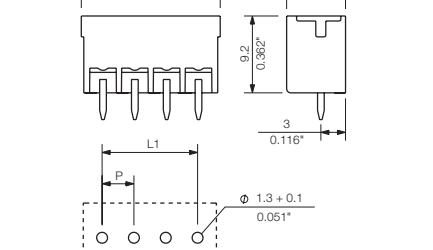
The male connector system with a 3.81 mm (0.15 inch) pitch extends the range of products for the designer in the practical 3... mm pitch. The male connector is available with a 180° (straight) outlet direction. The Weidmüller male connectors are compatible with the layout of customary plug-in connectors with 3.81 mm pitch and provide space for printing and coding.

- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 14 A (UL)

Derating curve



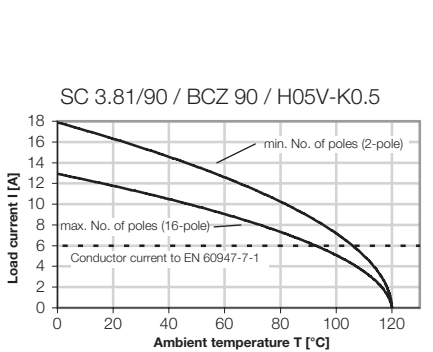
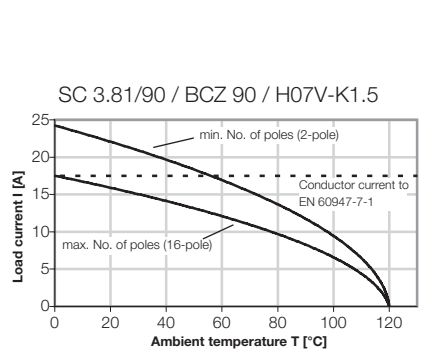
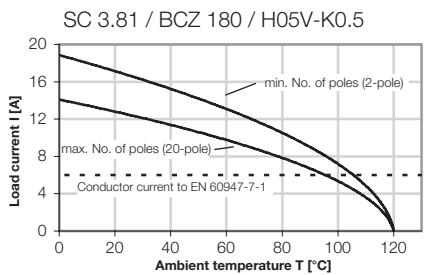
SC 3.81/180G



Technical data

| Rated data to IEC 60664-1 / IEC 61984 |                 |        |      |
|---------------------------------------|-----------------|--------|------|
| Clamping range, max.                  | mm <sup>2</sup> |        |      |
| Solid H05(07) V-U                     | mm <sup>2</sup> |        |      |
| Stranded H07 V-R                      | mm <sup>2</sup> |        |      |
| Flexible H05(07) V-K                  | mm <sup>2</sup> |        |      |
| Flexible with ferrule                 | mm <sup>2</sup> |        |      |
| Ferrule with plastic collar           | mm <sup>2</sup> |        |      |
| Stripping length                      | mm              |        |      |
| Screwdriver blade                     | mm              |        |      |
| according to norm                     |                 |        |      |
| Tightening torque range               | Nm              |        |      |
| Rated current at ambient temperature  |                 |        |      |
|                                       | A               | 20°C   | 40°C |
|                                       |                 | 17.5   | 17.5 |
| Overvoltage category                  |                 |        |      |
| Pollution severity                    |                 | III    | III  |
|                                       |                 | 3      | 2    |
|                                       |                 | 2      | 2    |
| Rated voltage                         | V               | 160    | 160  |
| Rated impulse voltage                 | kV              | 2.5    | 2.5  |
|                                       |                 | 320    | 320  |
| UL 1059 rated data                    |                 |        |      |
|                                       |                 | B      | C    |
|                                       |                 | D      |      |
| Nominal voltage                       | V               | 300    | 300  |
| Rated current                         | A               | 14     | 10   |
| AWG conductor                         |                 |        |      |
| CSA C22.2 rated data                  |                 |        |      |
|                                       |                 | B      | C    |
|                                       |                 | D      |      |
| Rated voltage                         | V               | 300    | 300  |
| Rated current                         | A               | 14     | 10   |
| AWG conductor                         |                 |        |      |
| Material data                         |                 |        |      |
| Type of insulating material           |                 | PA GF  |      |
| Flammability class acc. UL94          |                 | V-0    |      |
| Contact base material                 |                 | CuMg   |      |
| Material of contact surface           |                 | tinned |      |

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Technical specifications applicable from October 2007

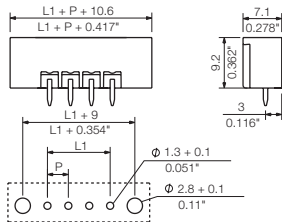


Ordering data

| Solder pin length |       | 3.2 mm  | 3.2 mm |            |            |
|-------------------|-------|---------|--------|------------|------------|
| Colour of plastic |       | orange  | black  |            |            |
| Pitch 3.81 mm     |       |         |        |            |            |
| Poles             | L1 mm | (inch)  | Qty.   | Order No.  | Order No.  |
| 2                 | 3.81  | (0.150) | 100    | 1942840000 | 1793520000 |
| 3                 | 7.62  | (0.300) | 50     | 1942850000 | 1793530000 |
| 4                 | 11.43 | (0.450) | 50     | 1942860000 | 1793540000 |
| 5                 | 15.24 | (0.600) | 50     | 1942870000 | 1793550000 |
| 6                 | 19.05 | (0.750) | 50     | 1942880000 | 1793560000 |
| 7                 | 22.86 | (0.900) | 50     | 1942890000 | 1871490000 |
| 8                 | 26.67 | (1.050) | 50     | 1942900000 | 1793570000 |
| 9                 | 30.48 | (1.200) | 50     | 1942910000 | 1871470000 |
| 10                | 34.29 | (1.350) | 50     | 1942920000 | 1793580000 |
| 11                | 38.10 | (1.500) | 50     | 1942930000 | 1943100000 |
| 12                | 41.91 | (1.650) | 50     | 1942940000 | 1793590000 |
| 13                | 45.72 | (1.800) | 50     | 1942950000 | 1943110000 |
| 14                | 49.53 | (1.950) | 50     | 1942960000 | 1943120000 |
| 15                | 53.34 | (2.100) | 50     | 1942970000 | 1943130000 |
| 16                | 57.12 | (2.250) | 50     | 1942980000 | 1793600000 |
| 17                | 60.93 | (2.400) | 50     | 1942990000 | 1943140000 |
| 18                | 64.74 | (2.550) | 50     | 1943000000 | 1943150000 |
| 19                | 68.55 | (2.700) | 50     | 1943010000 | 1943160000 |
| 20                | 72.36 | (2.850) | 50     | 1943020000 | 1943170000 |

SC 3.81/180F

with screw flange



Accessories

Possible colors

Additional colours on request



Coding

See chapter accessories

Ordering data

| Solder pin length | 3.2 mm | 3.2 mm |
|-------------------|--------|--------|
| Colour of plastic | orange | black  |

Pitch 3.81 mm

| Poles | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
|-------|-------|---------|------|------------|------------|
| 2     | 3.81  | (0.150) | 100  | 1943180000 | 1793700000 |
| 3     | 7.62  | (0.300) | 50   | 1943190000 | 1793710000 |
| 4     | 11.43 | (0.450) | 50   | 1943200000 | 1793720000 |
| 5     | 15.24 | (0.600) | 50   | 1943210000 | 1793730000 |
| 6     | 19.05 | (0.750) | 50   | 1943220000 | 1793740000 |
| 7     | 22.86 | (0.900) | 50   | 1943230000 | 1837010000 |
| 8     | 26.67 | (1.050) | 50   | 1943240000 | 1793750000 |
| 9     | 30.48 | (1.200) | 50   | 1943250000 | 1943470000 |
| 10    | 34.29 | (1.350) | 50   | 1943260000 | 1793760000 |
| 11    | 38.10 | (1.500) | 50   | 1943270000 | 1943480000 |
| 12    | 41.91 | (1.650) | 50   | 1943280000 | 1793770000 |
| 13    | 45.72 | (1.800) | 50   | 1943290000 | 1943490000 |
| 14    | 49.53 | (1.950) | 50   | 1943300000 | 1943500000 |
| 15    | 53.34 | (2.100) | 50   | 1943310000 | 1943510000 |
| 16    | 57.12 | (2.250) | 50   | 1943320000 | 1793780000 |
| 17    | 60.93 | (2.400) | 50   | 1943330000 | 1943520000 |
| 18    | 64.74 | (2.550) | 50   | 1943340000 | 1943530000 |
| 19    | 68.55 | (2.700) | 50   | 1943350000 | 1943540000 |
| 20    | 72.36 | (2.850) | 50   | 1943360000 | 1943550000 |



Marking strips

See chapter accessories



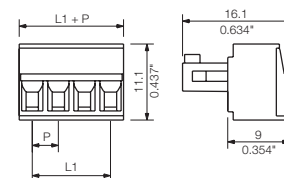
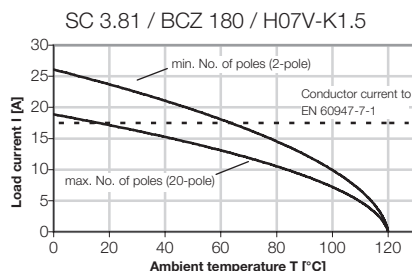
## BCZ 3.81/180



Socket connectors with screw clamping yoke connection for conductor connection with straight outlet at 3.81 mm pitch. The socket connectors are also available with flange and release bar. They provide space for labelling and can be coded.

- 0.2 - 1.5 mm<sup>2</sup> (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 14 A (UL)

## Derating curve

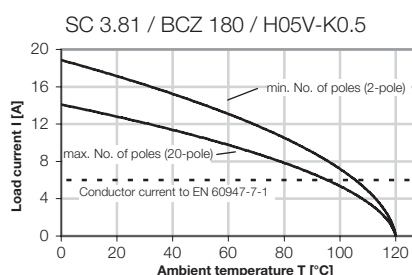


## F

### Technical data

| Rated data to IEC 60664-1 / IEC 61984       |                 |             |             |
|---------------------------------------------|-----------------|-------------|-------------|
| Clamping range, max.                        | mm <sup>2</sup> | 0.08...1.5  |             |
| Solid H05(07) V-U                           | mm <sup>2</sup> | 0.2...1.5   |             |
| Stranded H07 V-R                            | mm <sup>2</sup> |             |             |
| Flexible H05(07) V-K                        | mm <sup>2</sup> | 0.2...1.5   |             |
| Flexible with ferrule                       | mm <sup>2</sup> | 0.2...1.5   |             |
| Ferrule with plastic collar                 | mm <sup>2</sup> | 0.2...1.5   |             |
| Stripping length                            | mm              | 6.5         |             |
| Screwdriver blade                           | mm              | 0.4 x 2.5   |             |
| according to norm                           |                 | DIN 5264    |             |
| Tightening torque range                     | Nm              | 0.2...0.3   |             |
| <b>Rated current at ambient temperature</b> |                 | <b>20°C</b> | <b>40°C</b> |
|                                             | A               | 17.5        | 17.5        |
| <b>Overvoltage category</b>                 |                 | <b>III</b>  | <b>III</b>  |
| <b>Pollution severity</b>                   |                 | <b>3</b>    | <b>2</b>    |
| Rated voltage                               | V               | 150         | 150         |
| Rated impulse voltage                       | kV              | 2.5         | 2.5         |
| <b>UL 1059 rated data</b>                   |                 | <b>B</b>    | <b>C</b>    |
| Nominal voltage                             | V               | 300         | 300         |
| Rated current                               | A               | 14          | 10          |
| AWG conductor                               |                 | 28-16       |             |
| <b>CSA C22.2 rated data</b>                 |                 | <b>B</b>    | <b>C</b>    |
| Rated voltage                               | V               | 300         | 300         |
| Rated current                               | A               | 14          | 10          |
| AWG conductor                               |                 | 22-14       |             |
| <b>Material data</b>                        |                 |             |             |
| Type of insulating material                 |                 | PA GF       |             |
| Flammability class acc. UL94                |                 | V-0         |             |
| Contact base material                       |                 | Cu alloy    |             |
| Material of contact surface                 |                 | tinned      |             |
| <b>Information</b>                          |                 |             |             |

- Information**
- Additional colours on request
  - Rated current related to rated cross-section and min. No. of poles.
  - Wire end ferrule without plastic collar to DIN 46228 pt 1
  - Wire end ferrule with plastic collar to DIN 46228 pt 4
  - P on drg. = pitch
  - Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
  - Technical specifications applicable from October 2007

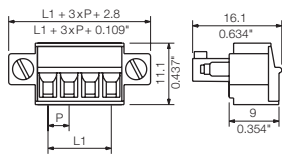


### Ordering data

| Solder pin length |       |         |       |            |
|-------------------|-------|---------|-------|------------|
| Colour of plastic |       |         |       |            |
|                   |       | orange  | black |            |
| Pitch 3.81 mm     |       |         |       |            |
| Poles             | L1 mm | (inch)  | Qty.  | Order No.  |
| 2                 | 3.81  | (0.150) | 50    | 1940730000 |
| 3                 | 7.62  | (0.300) | 50    | 1940740000 |
| 4                 | 11.43 | (0.450) | 50    | 1940750000 |
| 5                 | 15.24 | (0.600) | 50    | 1940760000 |
| 6                 | 19.05 | (0.750) | 50    | 1940770000 |
| 7                 | 22.86 | (0.900) | 50    | 1940780000 |
| 8                 | 26.67 | (1.050) | 50    | 1940790000 |
| 9                 | 30.48 | (1.200) | 50    | 1940800000 |
| 10                | 34.29 | (1.350) | 50    | 1940810000 |
| 11                | 38.10 | (1.500) | 50    | 1940820000 |
| 12                | 41.91 | (1.650) | 50    | 1940830000 |
| 13                | 45.72 | (1.800) | 50    | 1940840000 |
| 14                | 49.53 | (1.950) | 50    | 1940850000 |
| 15                | 53.34 | (2.100) | 50    | 1940860000 |
| 16                | 57.12 | (2.250) | 50    | 1940870000 |
| 17                | 60.93 | (2.400) | 50    | 1940880000 |
| 18                | 64.74 | (2.550) | 50    | 1940890000 |
| 19                | 68.55 | (2.700) | 50    | 1940910000 |
| 20                | 72.36 | (2.850) | 50    | 1940920000 |

BCZ 3.81/180F

with flange

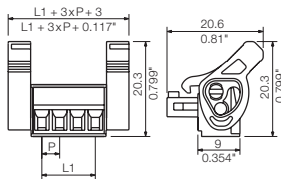


Ordering data

| Solder pin length |       |         |        |            |            |
|-------------------|-------|---------|--------|------------|------------|
| Colour of plastic |       |         | orange | black      |            |
| Pitch 3.81 mm     |       |         |        |            |            |
| Poles             | L1 mm | (inch)  | Qty.   | Order No.  | Order No.  |
| 2                 | 3.81  | (0.150) | 50     | 1941010000 | 1792950000 |
| 3                 | 7.62  | (0.300) | 50     | 1941020000 | 1792960000 |
| 4                 | 11.43 | (0.450) | 50     | 1941030000 | 1792970000 |
| 5                 | 15.24 | (0.600) | 50     | 1941040000 | 1792980000 |
| 6                 | 19.05 | (0.750) | 50     | 1941050000 | 1792990000 |
| 7                 | 22.86 | (0.900) | 50     | 1941060000 | 1837020000 |
| 8                 | 26.67 | (1.050) | 50     | 1941070000 | 1793000000 |
| 9                 | 30.48 | (1.200) | 50     | 1941080000 | 1899530000 |
| 10                | 34.29 | (1.350) | 50     | 1941090000 | 1793010000 |
| 11                | 38.10 | (1.500) | 50     | 1941100000 | 1899550000 |
| 12                | 41.91 | (1.650) | 50     | 1941110000 | 1793020000 |
| 13                | 45.72 | (1.800) | 50     | 1941120000 | 1899570000 |
| 14                | 49.53 | (1.950) | 50     | 1941130000 | 1899590000 |
| 15                | 53.34 | (2.100) | 50     | 1941140000 | 1899610000 |
| 16                | 57.12 | (2.250) | 50     | 1941150000 | 1793030000 |
| 17                | 60.93 | (2.400) | 50     | 1941160000 | 1941360000 |
| 18                | 64.74 | (2.550) | 50     | 1941170000 | 1941370000 |
| 19                | 68.55 | (2.700) | 50     | 1941180000 | 1941380000 |
| 20                | 72.36 | (2.850) | 50     | 1941190000 | 1941390000 |

BCZ 3.81/180LR

with release bar



Ordering data

| Solder pin length |       |         |        |            |            |
|-------------------|-------|---------|--------|------------|------------|
| Colour of plastic |       |         | orange | black      |            |
| Pitch 3.81 mm     |       |         |        |            |            |
| Poles             | L1 mm | (inch)  | Qty.   | Order No.  | Order No.  |
| 2                 | 3.81  | (0.150) | 100    | 1941400000 | 1941780000 |
| 3                 | 7.62  | (0.300) | 100    | 1941410000 | 1941790000 |
| 4                 | 11.43 | (0.450) | 50     | 1941420000 | 1941800000 |
| 5                 | 15.24 | (0.600) | 50     | 1941430000 | 1941810000 |
| 6                 | 19.05 | (0.750) | 50     | 1941440000 | 1941820000 |
| 7                 | 22.86 | (0.900) | 50     | 1941450000 | 1941830000 |
| 8                 | 26.67 | (1.050) | 50     | 1941460000 | 1941840000 |
| 9                 | 30.48 | (1.200) | 50     | 1941470000 | 1941850000 |
| 10                | 34.29 | (1.350) | 50     | 1941480000 | 1941860000 |
| 11                | 38.10 | (1.500) | 50     | 1941490000 | 1941870000 |
| 12                | 41.91 | (1.650) | 50     | 1941500000 | 1941880000 |
| 13                | 45.72 | (1.800) | 50     | 1941510000 | 1941890000 |
| 14                | 49.53 | (1.950) | 50     | 1941520000 | 1941900000 |
| 15                | 53.34 | (2.100) | 50     | 1941530000 | 1941910000 |
| 16                | 57.12 | (2.250) | 50     | 1941540000 | 1941920000 |
| 17                | 60.93 | (2.400) | 50     | 1941550000 | 1941930000 |
| 18                | 64.74 | (2.550) | 50     | 1941560000 | 1941940000 |
| 19                | 68.55 | (2.700) | 50     | 1941570000 | 1941950000 |
| 20                | 72.36 | (2.850) | 50     | 1941580000 | 1941960000 |

Accessories

Possible colors

Additional colours on request



Marking strips

See chapter accessories



Screwdriver

See chapter accessories  
Order No. 9008370000



Socket connectors with strain relief

Parts available on request



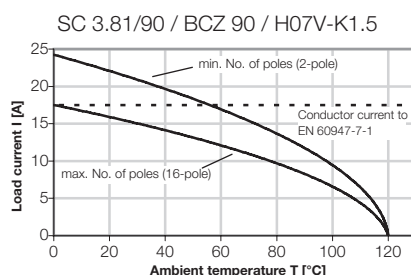
## BCZ 3.81/90



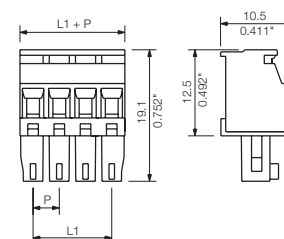
Socket connectors with screw clamping yoke connection for conductor connection with angled outlet direction (90°) at 3.81 mm pitch. The socket connectors are also available with flange. They provide space for labelling and can be coded.

- 0.2 - 1.5 mm<sup>2</sup> (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 14 A (UL)

## Derating curve



## BCZ 3.81/90



## F

### Technical data

#### Rated data to IEC 60664-1 / IEC 61984

|                             |                 |            |
|-----------------------------|-----------------|------------|
| Clamping range, max.        | mm <sup>2</sup> | 0.08...1.5 |
| Solid H05(07) V-U           | mm <sup>2</sup> | 0.2...1.5  |
| Stranded H07 V-R            | mm <sup>2</sup> |            |
| Flexible H05(07) V-K        | mm <sup>2</sup> | 0.2...1.5  |
| Flexible with ferrule       | mm <sup>2</sup> | 0.2...1.5  |
| Ferrule with plastic collar | mm <sup>2</sup> | 0.2...1.5  |
| Stripping length            | mm              | 6.5        |
| Screwdriver blade           | mm              | 0.4 x 2.5  |
| according to norm           |                 | DIN 5264   |
| Tightening torque range     | Nm              | 0.2...0.3  |

#### Rated current

| at ambient temperature | 20°C | 40°C |
|------------------------|------|------|
| A                      | 17.5 | 17.5 |

#### Overvoltage category

|  |     |     |    |
|--|-----|-----|----|
|  | III | III | II |
|--|-----|-----|----|

#### Pollution severity

|  |   |   |   |
|--|---|---|---|
|  | 3 | 2 | 2 |
|--|---|---|---|

|               |   |     |     |     |
|---------------|---|-----|-----|-----|
| Rated voltage | V | 150 | 150 | 320 |
|---------------|---|-----|-----|-----|

|                       |    |     |     |     |
|-----------------------|----|-----|-----|-----|
| Rated impulse voltage | kV | 2.5 | 2.5 | 2.5 |
|-----------------------|----|-----|-----|-----|

#### UL 1059 rated data

|  |   |   |   |
|--|---|---|---|
|  | B | C | D |
|--|---|---|---|

|                 |   |     |     |
|-----------------|---|-----|-----|
| Nominal voltage | V | 300 | 300 |
|-----------------|---|-----|-----|

|               |   |    |    |
|---------------|---|----|----|
| Rated current | A | 14 | 10 |
|---------------|---|----|----|

|               |  |       |
|---------------|--|-------|
| AWG conductor |  | 28-16 |
|---------------|--|-------|

#### @ CSA C22.2 rated data

|  |   |   |   |
|--|---|---|---|
|  | B | C | D |
|--|---|---|---|

|               |   |     |     |
|---------------|---|-----|-----|
| Rated voltage | V | 300 | 300 |
|---------------|---|-----|-----|

|               |   |    |    |
|---------------|---|----|----|
| Rated current | A | 14 | 10 |
|---------------|---|----|----|

|               |  |       |
|---------------|--|-------|
| AWG conductor |  | 22-14 |
|---------------|--|-------|

#### Material data

|                             |       |
|-----------------------------|-------|
| Type of insulating material | PA GF |
|-----------------------------|-------|

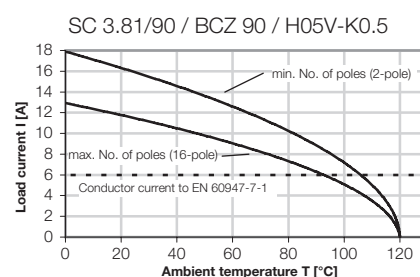
|                              |     |
|------------------------------|-----|
| Flammability class acc. UL94 | V-0 |
|------------------------------|-----|

|                       |          |
|-----------------------|----------|
| Contact base material | Cu alloy |
|-----------------------|----------|

|                             |        |
|-----------------------------|--------|
| Material of contact surface | tinned |
|-----------------------------|--------|

#### Information

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- Wire end ferrule with plastic collar to DIN 46228 pt 4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Technical specifications applicable from October 2007



### Ordering data

#### Solder pin length

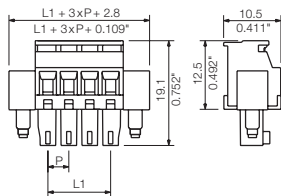
| Colour of plastic | orange | black |
|-------------------|--------|-------|
|-------------------|--------|-------|

#### Pitch 3.81 mm

| Poles | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
|-------|-------|---------|------|------------|------------|
| 2     | 3.81  | (0.150) | 100  | 1939820000 | 1798500000 |
| 3     | 7.62  | (0.300) | 50   | 1939830000 | 1798120000 |
| 4     | 11.43 | (0.450) | 50   | 1939840000 | 1798550000 |
| 5     | 15.24 | (0.600) | 50   | 1939860000 | 1798570000 |
| 6     | 19.05 | (0.750) | 50   | 1939870000 | 1798590000 |
| 7     | 22.86 | (0.900) | 50   | 1939880000 | 1858960000 |
| 8     | 26.67 | (1.050) | 50   | 1939890000 | 1798130000 |
| 9     | 30.48 | (1.200) | 50   | 1939900000 | 1871430000 |
| 10    | 34.29 | (1.350) | 50   | 1939910000 | 1798610000 |
| 11    | 38.10 | (1.500) | 50   | 1939920000 | 1899380000 |
| 12    | 41.91 | (1.650) | 50   | 1939930000 | 1798630000 |
| 13    | 45.72 | (1.800) | 50   | 1939940000 | 1899420000 |
| 14    | 49.53 | (1.950) | 50   | 1939950000 | 1899460000 |
| 15    | 53.34 | (2.100) | 50   | 1939960000 | 1899500000 |
| 16    | 57.12 | (2.250) | 50   | 1939970000 | 1798660000 |

BCZ 3.81/90F

with flange



Accessories

Possible colors

Additional colours on request



Marking strips

See chapter accessories



Screwdriver

See chapter accessories  
Order No. 9008370000



Ordering data

Solder pin length

Colour of plastic orange black

Pitch 3.81 mm

| Poles | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
|-------|-------|---------|------|------------|------------|
| 2     | 3.81  | (0.150) | 100  | 1939980000 | 1798780000 |
| 3     | 7.62  | (0.300) | 50   | 1939990000 | 1798140000 |
| 4     | 11.43 | (0.450) | 50   | 1940000000 | 1798790000 |
| 5     | 15.24 | (0.600) | 50   | 1940010000 | 1798800000 |
| 6     | 19.05 | (0.750) | 50   | 1940020000 | 1798810000 |
| 7     | 22.86 | (0.900) | 50   | 1940030000 | 1845690000 |
| 8     | 26.67 | (1.050) | 50   | 1940040000 | 1798150000 |
| 9     | 30.48 | (1.200) | 50   | 1940050000 | 1899540000 |
| 10    | 34.29 | (1.350) | 50   | 1940060000 | 1798820000 |
| 11    | 38.10 | (1.500) | 50   | 1940070000 | 1899560000 |
| 12    | 41.91 | (1.650) | 50   | 1940080000 | 1798830000 |
| 13    | 45.72 | (1.800) | 50   | 1940090000 | 1899580000 |
| 14    | 49.53 | (1.950) | 50   | 1940100000 | 1899600000 |
| 15    | 53.34 | (2.100) | 50   | 1940110000 | 1899620000 |
| 16    | 57.12 | (2.250) | 50   | 1940120000 | 1798840000 |

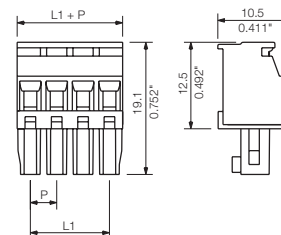
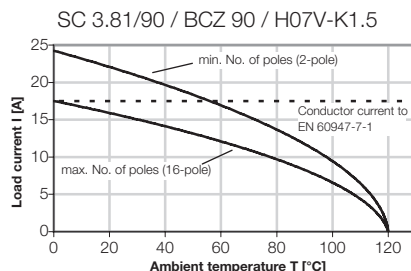
## BCZ 3.81/270



Socket connectors with screw clamping yoke connection for conductor connection with angled outlet direction (270°) at 3.81 mm pitch. The socket connectors are also available with flange. They provide space for labelling and can be coded.

- 0.2 - 1.5 mm<sup>2</sup> (IEC) / 28 - 16 AWG (UL)
- 250 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 14 A (UL)

## Derating curve



## Technical data

### Rated data to IEC 60664-1 / IEC 61984

|                             |                 |            |
|-----------------------------|-----------------|------------|
| Clamping range, max.        | mm <sup>2</sup> | 0.08...1.5 |
| Solid H05(07) V-U           | mm <sup>2</sup> | 0.2...1.5  |
| Stranded H07 V-R            | mm <sup>2</sup> |            |
| Flexible H05(07) V-K        | mm <sup>2</sup> | 0.2...1.5  |
| Flexible with ferrule       | mm <sup>2</sup> | 0.2...1.5  |
| Ferrule with plastic collar | mm <sup>2</sup> | 0.2...1.5  |
| Stripping length            | mm              | 6.5        |
| Screwdriver blade           | mm              | 0.4 x 2.5  |
| according to norm           |                 | DIN 5264   |
| Tightening torque range     | Nm              | 0.2...0.3  |

### Rated current

| at ambient temperature | 20°C | 40°C |
|------------------------|------|------|
| A                      | 17.5 | 17.5 |

### Overvoltage category

|  |     |     |    |
|--|-----|-----|----|
|  | III | III | II |
|--|-----|-----|----|

### Pollution severity

|  |   |   |   |
|--|---|---|---|
|  | 3 | 2 | 2 |
|--|---|---|---|

|               |   |     |     |     |
|---------------|---|-----|-----|-----|
| Rated voltage | V | 150 | 150 | 320 |
|---------------|---|-----|-----|-----|

|                       |    |     |     |     |
|-----------------------|----|-----|-----|-----|
| Rated impulse voltage | kV | 2.5 | 2.5 | 2.5 |
|-----------------------|----|-----|-----|-----|

### UL 1059 rated data

|  |   |   |   |
|--|---|---|---|
|  | B | C | D |
|--|---|---|---|

|                 |   |     |     |     |
|-----------------|---|-----|-----|-----|
| Nominal voltage | V | 300 | 300 | 300 |
|-----------------|---|-----|-----|-----|

|               |   |    |    |    |
|---------------|---|----|----|----|
| Rated current | A | 14 | 10 | 10 |
|---------------|---|----|----|----|

|               |  |       |  |  |
|---------------|--|-------|--|--|
| AWG conductor |  | 28-16 |  |  |
|---------------|--|-------|--|--|

### CSA C22.2 rated data

|  |   |   |   |
|--|---|---|---|
|  | B | C | D |
|--|---|---|---|

|               |   |     |     |     |
|---------------|---|-----|-----|-----|
| Rated voltage | V | 300 | 300 | 300 |
|---------------|---|-----|-----|-----|

|               |   |    |    |    |
|---------------|---|----|----|----|
| Rated current | A | 14 | 10 | 10 |
|---------------|---|----|----|----|

|               |  |       |  |  |
|---------------|--|-------|--|--|
| AWG conductor |  | 22-14 |  |  |
|---------------|--|-------|--|--|

### Material data

|                             |       |
|-----------------------------|-------|
| Type of insulating material | PA GF |
|-----------------------------|-------|

|                              |     |
|------------------------------|-----|
| Flammability class acc. UL94 | V-0 |
|------------------------------|-----|

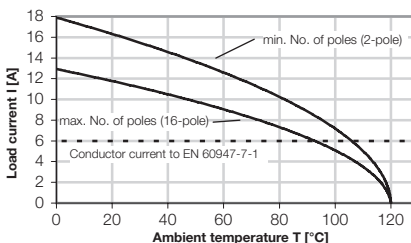
|                       |          |
|-----------------------|----------|
| Contact base material | Cu alloy |
|-----------------------|----------|

|                             |        |
|-----------------------------|--------|
| Material of contact surface | tinned |
|-----------------------------|--------|

### Information

- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228 pt 1
- Wire end ferrule with plastic collar to DIN 46228 pt 4
- P on drg. = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Technical specifications applicable from October 2007

## Derating curve



## Ordering data

### Solder pin length

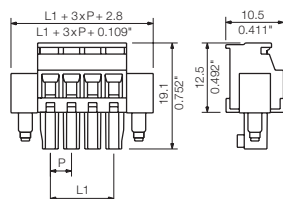
| Colour of plastic | orange | black |
|-------------------|--------|-------|
|-------------------|--------|-------|

### Pitch 3.81 mm

| Poles | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
|-------|-------|---------|------|------------|------------|
| 2     | 3.81  | (0.150) | 50   | 1940190000 | 1798940000 |
| 3     | 7.62  | (0.300) | 50   | 1940200000 | 1798160000 |
| 4     | 11.43 | (0.450) | 50   | 1940210000 | 1798950000 |
| 5     | 15.24 | (0.600) | 50   | 1940220000 | 1798960000 |
| 6     | 19.05 | (0.750) | 50   | 1940230000 | 1798970000 |
| 7     | 22.86 | (0.900) | 50   | 1940240000 | 1940400000 |
| 8     | 26.67 | (1.050) | 50   | 1940250000 | 1798170000 |
| 9     | 30.48 | (1.200) | 50   | 1940260000 | 1940410000 |
| 10    | 34.29 | (1.350) | 50   | 1940270000 | 1798980000 |
| 11    | 38.10 | (1.500) | 50   | 1940280000 | 1940420000 |
| 12    | 41.91 | (1.650) | 50   | 1940290000 | 1798990000 |
| 13    | 45.72 | (1.800) | 50   | 1940300000 | 1940430000 |
| 14    | 49.53 | (1.950) | 50   | 1940310000 | 1940440000 |
| 15    | 53.34 | (2.100) | 50   | 1940320000 | 1940450000 |
| 16    | 57.12 | (2.250) | 50   | 1940330000 | 1799000000 |

## BCZ 3.81/270F

with flange



## Accessories

### Possible colors

Additional colours on request



## Marking strips

See chapter accessories

## Ordering data

**Solder pin length**

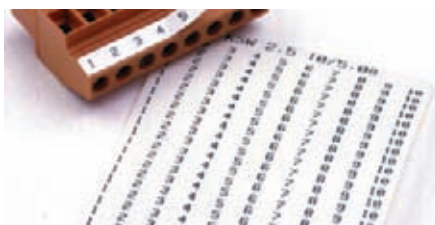
**Colour of plastic**

orange

**black**

## Pitch 3.81 mm

| Poles | L1 mm | (inch)  | Qty. | Order No.  | Order No.  |
|-------|-------|---------|------|------------|------------|
| 2     | 3.81  | (0.150) | 50   | 1940460000 | 1799100000 |
| 3     | 7.62  | (0.300) | 50   | 1940470000 | 1798180000 |
| 4     | 11.43 | (0.450) | 50   | 1940480000 | 1799110000 |
| 5     | 15.24 | (0.600) | 50   | 1940490000 | 1799120000 |
| 6     | 19.05 | (0.750) | 50   | 1940500000 | 1799130000 |
| 7     | 22.86 | (0.900) | 50   | 1940510000 | 1940670000 |
| 8     | 26.67 | (1.050) | 50   | 1940520000 | 1798190000 |
| 9     | 30.48 | (1.200) | 50   | 1940530000 | 1940680000 |
| 10    | 34.29 | (1.350) | 50   | 1940540000 | 1799140000 |
| 11    | 38.10 | (1.500) | 50   | 1940550000 | 1940690000 |
| 12    | 41.91 | (1.650) | 50   | 1940560000 | 1799150000 |
| 13    | 45.72 | (1.800) | 50   | 1940570000 | 1940700000 |
| 14    | 49.53 | (1.950) | 50   | 1940580000 | 1940710000 |
| 15    | 53.34 | (2.100) | 50   | 1940590000 | 1940720000 |
| 16    | 57.12 | (2.250) | 50   | 1940600000 | 1799160000 |



## Screwdriver

See chapter accessories

Order No. 9008370000



