

**WPD 109 1X185/2X35+3X25+4X16 BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Our WPD 1XX distribution blocks are used in all situations where power is supplied and distributed. Their user-friendly design creates a better overview and enables Rapid, efficient implementation of space-saving power distribution.

**General ordering data**

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| Version    | W-Series, Distribution block, Rated cross-section: Screw connection, Terminal rail / mounting plate |
| Order No.  | <a href="#">2519490000</a>                                                                          |
| Type       | WPD 109 1X185/2X35+3X25+4X16 BL                                                                     |
| GTIN (EAN) | 4050118531916                                                                                       |
| Qty.       | 1 pc(s).                                                                                            |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 77 mm   | Depth (inches)  | 3.031 inch |
| Height     | 95 mm   | Height (inches) | 3.74 inch  |
| Width      | 51.1 mm | Width (inches)  | 2.012 inch |
| Net weight | 455 g   |                 |            |

## Temperatures

|                     |                |                                  |        |
|---------------------|----------------|----------------------------------|--------|
| Storage temperature | -25 °C...55 °C | Continuous operating temp., min. | -50 °C |
|---------------------|----------------|----------------------------------|--------|

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## Material data

|                           |       |        |      |
|---------------------------|-------|--------|------|
| Material                  | Wemid | Colour | blue |
| UL 94 flammability rating | V-0   |        |      |

## Rating data IECEx/ATEX

|                                |                     |                         |                   |
|--------------------------------|---------------------|-------------------------|-------------------|
| Certificate No. (ATEX)         | CNEX16ATEX0005U     | Certificate No. (IECEX) | IECEXCNEX16.0005U |
| Max. voltage (ATEX)            | 1100 V              | Current (ATEX)          | 353 A             |
| Wire cross section max. (ATEX) | 185 mm <sup>2</sup> | Max. voltage (IECEX)    | 1100 V            |
| Current (IECEX)                | 353 A               |                         |                   |

## System specifications

|                                     |                  |                               |                       |
|-------------------------------------|------------------|-------------------------------|-----------------------|
| Version                             | Screw connection | End cover plate required      | No                    |
| Number of potentials                | 1                | Number of levels              | 1                     |
| Number of clamping points per level | 2                | Number of potentials per tier | 1                     |
| Levels cross-connected internally   | Yes              | Rail                          | Mounting plate, TS 35 |
| PE function                         | No               | PEN function                  | No                    |

## Additional technical data

|                     |                                |            |        |
|---------------------|--------------------------------|------------|--------|
| Installation advice | Terminal rail / mounting plate | Open sides | closed |
| Type of mounting    | Snap-on                        |            |        |

## CSA rating data

|                             |          |
|-----------------------------|----------|
| Certificate number (cCSAus) | 70128467 |
|-----------------------------|----------|

## Conductors for clamping (rated connection)

|                      |               |                    |                  |
|----------------------|---------------|--------------------|------------------|
| Connection direction | None, on side | Type of connection | Screw connection |
|----------------------|---------------|--------------------|------------------|

## General

|                     |                                |                 |                        |
|---------------------|--------------------------------|-----------------|------------------------|
| Installation advice | Terminal rail / mounting plate | Number of poles | 1                      |
| Rail                | Mounting plate, TS 35          | Standards       | IEC 60947-7-1, UL 1059 |

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## Technical data

## Rating data

|                  |                        |                  |         |
|------------------|------------------------|------------------|---------|
| Rated voltage    | 1,000 V                | Rated AC voltage | 1,000 V |
| Rated DC voltage | 1,500 V DC             | Rated current    | 490 A   |
| Standards        | IEC 60947-7-1, UL 1059 |                  |         |

## UL rating data

|                      |        |
|----------------------|--------|
| Certificate No. (UR) | E60693 |
|----------------------|--------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | EC000897    | ECLASS 9.0  | 27-14-11-20 |
| ECLASS 9.1  | 27-14-11-20 | ECLASS 10.0 | 27-14-11-20 |
| ECLASS 11.0 | 27-14-11-20 |             |             |

## Important note

|                     |                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------|
| Product information | Power distribution block (Bus Bar) also usable for distribution of neutral conductor and function earth. |
|---------------------|----------------------------------------------------------------------------------------------------------|

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

## Downloads

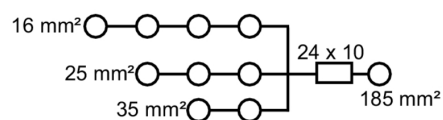
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">Attestation of Conformity</a><br><a href="#">UKCA Ex Attestation of Conformity</a><br><a href="#">CB Certificate</a><br><a href="#">ATEX Certificate</a><br><a href="#">IECEX Certificate</a><br><a href="#">VDE Certificate</a><br><a href="#">EAC EX Certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">DNV Certificate</a><br><a href="#">UKCA Ex Certificate</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Engineering Data                            | <a href="#">EPLAN</a>                                                                                                                                                                                                                                                                                                                                                                                                                           |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">DATA SHEET WPD 109</a><br><a href="#">NTI WPD 109</a>                                                                                                                                                                                                                                                                                                                            |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                        |

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# Drawings



## Power distribution

### Screw connection

#### W-Series

#### WPD 109 1X185/2X35+3X25+4X16 GY

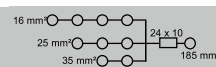


WPD 109

185 mm<sup>2</sup>

|                               |                   |
|-------------------------------|-------------------|
| Width / Height / Depth        | mm                |
| max. current / max. conductor | A/mm <sup>2</sup> |
| max. clamping range           | mm <sup>2</sup>   |

55.1 / 77 / 95  
353 / 185  
50...185



#### Technical data

| Rated data             |                     |                 |
|------------------------|---------------------|-----------------|
| Rated voltage          | V                   |                 |
| Rated current          | A                   |                 |
| for wire cross-section | 185 mm <sup>2</sup> | mm <sup>2</sup> |

Rated impulse withstand voltage / Pollution severity

Overvoltage category / UL 94 flammability rating

Approvals

#### Clamped conductors (H05V/H07V)

|                               |                     |                 |
|-------------------------------|---------------------|-----------------|
| Solid / Stranded              | 185 mm <sup>2</sup> | mm <sup>2</sup> |
|                               | 35 mm <sup>2</sup>  | mm <sup>2</sup> |
|                               | 25 mm <sup>2</sup>  | mm <sup>2</sup> |
|                               | 16 mm <sup>2</sup>  | mm <sup>2</sup> |
| Flexible with ferrule         | 185 mm <sup>2</sup> | mm <sup>2</sup> |
|                               | 35 mm <sup>2</sup>  | mm <sup>2</sup> |
|                               | 25 mm <sup>2</sup>  | mm <sup>2</sup> |
|                               | 16 mm <sup>2</sup>  | mm <sup>2</sup> |
| Stripping length / Blade size | 185 mm              | mm/-            |
|                               | 35 mm               | mm/-            |
|                               | 25 mm               | mm <sup>2</sup> |
|                               | 16 mm               | mm <sup>2</sup> |
| Tightening torque             |                     | Nm              |

#### Note

#### IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)

| IEC       | UL                     | CSA                    | EN 60079-7 |
|-----------|------------------------|------------------------|------------|
| 1000      | 600                    | 600                    | 880        |
| 353       | 310                    | 310                    | 353        |
| 185       | AWG 2/0...kcmil<br>350 | AWG 2/0...kcmil<br>350 | 185        |
| 8 kV / 3  |                        |                        |            |
| III / V-0 |                        |                        |            |

#### Bemessungsanschluss

|                             |
|-----------------------------|
| 70...185 / 70...185         |
| 4...35 / 4...35             |
| 2.5...25 / 2.5...25         |
| 1.5...16 / 1.5...16         |
| 50...150                    |
| 2.5...25                    |
| 1.5...16                    |
| 1.5...10                    |
| 27 / M14                    |
| 18 / M8                     |
| 12 / M6                     |
| 12 / M6                     |
| siehe Anhang am Kapitelende |



#### Ordering data

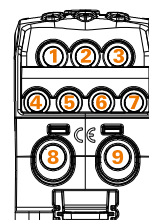
| Version |  |
|---------|--|
| grey    |  |
| blue    |  |
| red     |  |
| black   |  |
| Note    |  |

| Type                            | Qty. | Order No.  |
|---------------------------------|------|------------|
| WPD 109 1x185/2x35+3x25+4x16 GY | 1    | 1562090000 |
| WPD 109 1x185/2x35+3x25+4x16 BL | 1    | 2519490000 |
| WPD 109 1x185/2x35+3x25+4x16 RD | 1    | 2725270000 |
| WPD 109 1x185/2x35+3x25+4x16 BK | 1    | 2725370000 |

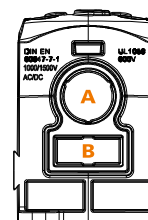
#### Accessories

| Cross connection |  |
|------------------|--|
| 2-pole           |  |
| End bracket      |  |
| dark beige       |  |
| dark beige       |  |
| Screwdriver      |  |
| SET              |  |

| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| WQB WPD X08-09/2  | 20   | 1561900000 |
| WEW 35/2          | 100  | 1061200000 |
| AEB 35 SC/1       | 50   | 1991920000 |
| SDK PZ2 X 100     | 1    | 2749450000 |
| SK WSD-S 1,5-10,0 | 1    | 9008850000 |



output

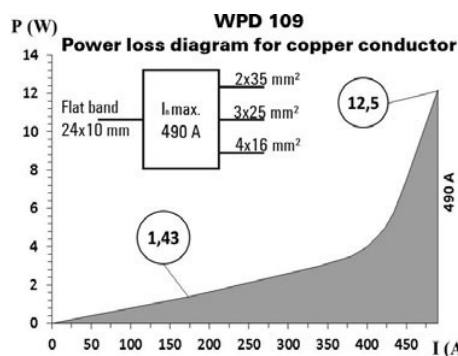


input

## Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)

| connection point A                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   | CP** B                                                                            |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Input                                                     | Copper                                                                            |                                                                                   | Aluminium*                                                                        |                                                                                   | Copper                                                                            |
|                                                           |  |  |  |  |  |
| 120 mm <sup>2</sup>                                       | 19 Nm                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 95 mm <sup>2</sup>                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 70 mm <sup>2</sup>                                        |                                                                                   | 19 Nm                                                                             | 22,6 Nm                                                                           | 22,6 Nm                                                                           |                                                                                   |
| 50 mm <sup>2</sup>                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 35 mm <sup>2</sup>                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 25 mm <sup>2</sup>                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Flat band 24x10mm                                         |                                                                                   |                                                                                   |                                                                                   | 3 Nm                                                                              |                                                                                   |
| Stripping lengths                                         | 27 mm                                                                             |                                                                                   |                                                                                   |                                                                                   | 22 mm                                                                             |
| Allen screw                                               | M14                                                                               |                                                                                   |                                                                                   |                                                                                   | M6                                                                                |
| * Values according to UL 1059    ** CP - connection point |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

\* Values according to UL 1059 \*\* CP - connection point



| connection point 1 / 2 / 3    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     | connection point 4 / 5 / 6 / 7 |  |  |  | connection point 8 / 9 |  |  |  |
|-------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|--|--|--|------------------------|--|--|--|
| Output                        | Copper                                                                            |                                                                                   | Aluminium*                                                                        |                                                                                   | Copper                                                                            |                                                                                   | Aluminium*                                                                        |                                                                                    | Copper                                                                              |                                                                                     | Aluminium*                                                                          |                                                                                     |                                |  |  |  |                        |  |  |  |
|                               |  |  |  |  |  |  |  |  |  |  |  |  |                                |  |  |  |                        |  |  |  |
| 35 mm²                        | 2 Nm                                                                              | 2 Nm                                                                              | 5,1 Nm                                                                            | 5,1 Nm                                                                            | 2 Nm                                                                              | 2 Nm                                                                              |                                                                                   |                                                                                    | 2,5 Nm                                                                              | 2,5 Nm                                                                              | 11,3 Nm                                                                             | 11,3 Nm                                                                             |                                |  |  |  |                        |  |  |  |
| 25 mm²                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| 16 mm²                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| 10 mm²                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| 6 mm²                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| 4 mm²                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| 2.5 mm²                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| 1.5 mm²                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| Stripping lengths             | 12 mm                                                                             |                                                                                   |                                                                                   |                                                                                   | 12 mm                                                                             |                                                                                   |                                                                                   |                                                                                    | 18 mm                                                                               |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| Allen screw                   | M6                                                                                |                                                                                   |                                                                                   |                                                                                   | M6                                                                                |                                                                                   |                                                                                   |                                                                                    | M8                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |
| * Values according to UL 1059 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |  |  |  |                        |  |  |  |

\* Values according to UL 1059

 Stranded
  Solid
  Flexible with ferrule
  Sector shaped
  Flat band

## UL Rating data according to UL 1059

| Certificate no. (UR)    | XCFR2.E60693                                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                         | connection point A                                                                  |                                                                                     |                                                                                     |                                                                                     | CP* B                                                                               |
| Input (line)            | Copper                                                                              |                                                                                     | Aluminium                                                                           |                                                                                     | Copper                                                                              |
|                         |  |  |  |  |  |
| kcmil 250               | 168.2<br>Lb In.                                                                     |                                                                                     | 200 Lb In.                                                                          |                                                                                     |                                                                                     |
| AWG 4/0                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| AWG 3/0                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| AWG 2/0                 |                                                                                     | 168.2<br>Lb In.                                                                     |                                                                                     | 200 Lb In.                                                                          |                                                                                     |
| AWG 1/0                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| AWG 2                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| AWG 4                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Flat band 24x10 mm      |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 17.7 Lb In.                                                                         |
| max. current            | 250 A                                                                               | 200 A                                                                               | 155 A                                                                               | 205 A                                                                               | 250 A                                                                               |
| Voltage size B,C (UR)   | 600 V                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| * CP - connection point |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

\* CP - connection point

## CSA rating data according to CSA 22.2 No. 158

| Certificate No. (CSA) | 269832         |           |                       |       |
|-----------------------|----------------|-----------|-----------------------|-------|
|                       | Input<br>CP* A | CP* 1/2/3 | Output<br>CP* 4/5/6/7 | CP* B |
| kcmil 250             | 19 Nm.         |           |                       |       |
| AWG 2                 | 19 Nm.         |           |                       |       |
| AWG 4                 |                |           |                       |       |
| AWG 6                 |                |           |                       |       |
| AWG 8                 |                |           |                       |       |
| AWG 10                |                |           |                       |       |
| AWG 12                |                |           |                       |       |
| AWG 14                |                |           |                       |       |
| AWG 16                |                |           |                       |       |
| max. current          | 255 A          | 85 A      | 65 A                  | 115 A |
| Voltage size C (CSA)  | 600 V          |           |                       |       |

\* CP - connection point

| Output                | connection point 1 / 2 / 3                                                          |                                                                                     |                                                                                     |                                                                                     | connection point 4 / 5 / 6 / 7                                                      |                                                                                     |                                                                                       |                                                                                       | connection point 8 / 9                                                                |                                                                                       |                                                                                       |                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                       | Copper                                                                              |                                                                                     | Aluminium                                                                           |                                                                                     | Copper                                                                              |                                                                                     | Aluminium                                                                             |                                                                                       | Copper                                                                                |                                                                                       | Aluminium                                                                             |                                                                                       |
|                       |  |  |  |  |  |  |  |  |  |  |  |  |
| AWG 2                 | 22.6 Lb In.                                                                         | 22.6 Lb In.                                                                         | 45.1 Lb In.                                                                         | 45.1 Lb In.                                                                         | 22.6 Lb In.                                                                         | 22.6 Lb In.                                                                         |                                                                                       |                                                                                       | 53.1 Lb In.                                                                           | 53.1 Lb In.                                                                           | 100 Lb In.                                                                            | 100 Lb In.                                                                            |
| AWG 4                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| AWG 6                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| AWG 8                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| AWG 10                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| AWG 12                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| AWG 14                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| AWG 16                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| max. current          | 85 A                                                                                | 65 A                                                                                | 65 A                                                                                | 50 A                                                                                | 65 A                                                                                | 50 A                                                                                | 50 A                                                                                  |                                                                                       | 115 A                                                                                 | 85 A                                                                                  | 90 A                                                                                  | 65 A                                                                                  |
| Voltage size B,C (UR) |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 600 V                                                                               |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

 Stranded
  Solid
  Flexible with ferrule
  Sector shaped
  Flat band