

## APG 6/10

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



The plugs for our WeiCoS-System are available for all different connection systems. The product range includes preassembled connectors from 1 to 10 poles and the possibility of an individual assembly. This ensures maximum flexibility for every application. The customized accessories increase the safety and protection against environmental influences.

### General ordering data

|            |   |
|------------|---|
| Version    | Plug, 6 mm <sup>2</sup> , 800 V, 41 A, Number of poles: 10, beige |
| Order No.  | <a href="#">2829070000</a>  |
| Type       | APG 6/10  |
| GTIN (EAN) | 4064675382782   |
| Qty.       | 10 items  |

## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

## Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 51 mm  | Depth (inches)  | 2.0079 inch |
| Height     | 24 mm  | Height (inches) | 0.9449 inch |
| Width      | 81 mm  | Width (inches)  | 3.189 inch  |
| Net weight | 74.8 g |                 |             |

## Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Ambient temperature              | -60 °C...85 °C | Continuous operating temp., min. | -60 °C |
| Continuous operating temp., max. | 130 °C         |                                  |        |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Material data

|                                |        |                           |       |
|--------------------------------|--------|---------------------------|-------|
| Basic material                 | Wemid  | Colour                    | beige |
| Colour of operational elements | orange | UL 94 flammability rating | V-0   |

## System specifications

|                          |    |                                     |    |
|--------------------------|----|-------------------------------------|----|
| End cover plate required | No | Number of potentials                | 10 |
| Number of levels         | 1  | Number of clamping points per level | 10 |
| N-function               | No | PE function                         | No |
| PEN function             | No |                                     |    |

## Additional technical data

|                  |         |         |    |
|------------------|---------|---------|----|
| Open sides       | closed  | Snap-on | No |
| Type of mounting | Plugged |         |    |

## CSA rating data

|                               |        |                       |                 |
|-------------------------------|--------|-----------------------|-----------------|
| Wire cross section max. (CSA) | 8 AWG  | Voltage size C (CSA)  | 300 V           |
| Current size C (CSA)          | 29 A   | Certificate No. (CSA) | 200039-80099474 |
| Voltage size B (CSA)          | 300 V  | Current size B (CSA)  | 29 A            |
| Voltage size D (CSA)          | 600 V  | Current size D (CSA)  | 5 A             |
| Wire cross section min. (CSA) | 22 AWG |                       |                 |

## Conductors for clamping (rated connection)

|                      |     |   |       |
|----------------------|-----|---|-------|
| Gauge to IEC 60947-1 | A5  | Wire connection cross section AWG, max. | AWG 8 |
| Connection direction | top | Stripping length                        | 12 mm |

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## Technical data

|   |                   |   |                     |
|---|-------------------|---|---------------------|
| Type of connection  | PUSH IN           | Number of connections   | 10                  |
| Clamping range, max.  | 6 mm <sup>2</sup> | Clamping range, min.  | 0.5 mm <sup>2</sup> |
| Blade size  | 1.0 x 5.5 mm      | Wire connection cross section AWG, min.   | AWG 22              |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 6 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 6 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.                                    | 6 mm <sup>2</sup> | Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup> |
| Connection cross-section, stranded, max.  | 6 mm <sup>2</sup> | Connection cross-section, stranded, min.  | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, solid core, max.   | 6 mm <sup>2</sup> | Wire connection cross-section, solid core, min.   | 0.5 mm <sup>2</sup> |

### General

|   |        |   |                                  |
|---|--------|---|----------------------------------|
| Number of poles                         | 10     | Wire connection cross section AWG, max. | AWG 8                            |
| Wire connection cross section AWG, min. | AWG 22 | Standards                               | In accordance with IEC 60947-7-1 |

### Rating data

|                                     |                                  |  |         |
|-------------------------------------|----------------------------------|--|---------|
| Rated cross-section                 | 6 mm <sup>2</sup>                | Rated voltage                                | 800 V   |
| Rated voltage to adjoining terminal | 800 V                            | Rated DC voltage                             | 800 V   |
| Nominal current                     | 41 A                             | Current at maximum wires                     | 41 A    |
| Standards                           | In accordance with IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 0.78 mΩ |
| Rated impulse withstand voltage     | 8 kV                             | Power loss in accordance with IEC 60947-7-x  | 1.31 W  |
| Surge voltage category              | III                              | Pollution severity                           | 3       |

### UL rating data

|  |        |  |        |
|--|--------|--|--------|
| Conductor size Factory wiring max. (cURus) | 8 AWG  | Voltage size B (cURus)                     | 600 V  |
| Voltage size D (cURus)                     | 600 V  | Certificate No. (cURus)                    | E60693 |
| Conductor size Field wiring min. (cURus)   | 22 AWG | Conductor size Factory wiring min. (cURus) | 22 AWG |
| Current size B (cURus)                     | 37 A   | Voltage size C (cURus)                     | 600 V  |
| Current size C (cURus)                     | 37 A   | Current size D (cURus)                     | 5 A    |
| Conductor size Field wiring max. (cURus)   | 8 AWG  |  |        |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002848    | ETIM 9.0    | EC002848    |
| ETIM 10.0   | EC002848    | ECLASS 14.0 | 27-25-03-90 |
| ECLASS 15.0 | 27-25-03-90 |             |             |

Derating APG 6...

