

## WGK 10 VP/Z GY BX

**Weidmüller Interfaces GmbH & Co. KG**

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### Product image



Similar to illustration

The V versions of the WGK feed-through terminals with an insulated housing and clamping yoke connections on the external side, and a solder connection on the internal side for use in encapsulated devices (e.g. EMC filters).



### General ordering data

Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 10 mm <sup>2</sup> , Wemid (PA), Feed-through (bushing)
Order No.	<a href="#">2439420000</a>
Type	WGK 10 VP/Z GY BX
GTIN (EAN)	4050118468052
Qty.	50 pc(s).
Product data	IEC: 500 V / 57 A / 0.5 - 16 mm <sup>2</sup> UL: 300 V / 65 A / AWG 24 - AWG 6
Packaging	Box

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**Technical data****Dimensions and weights**

Net weight	13 g	www.weidmueller.com
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**Temperatures**

Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
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**System parameters**

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw / solder connection
Conductor outlet direction	180°	Fitted by customer	Yes
Screwdriver blade	0.8 x 4.0	Tightening torque, min.	1.2 Nm
Tightening torque, max.	2.4 Nm	Clamping screw	M 4
Stripping length	11 mm	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20		

**Material data**

Insulating material	Wemid (PA)	Colour	grey
Colour chart (similar)	RAL 7035	UL 94 flammability rating	V-0
Contact material	E-Cu	Contact surface	tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

**Conductors suitable for connection**

Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	16 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 24
Wire connection cross section AWG, max.	AWG 6
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	16 mm <sup>2</sup>
Stranded, min. H07V-R	10 mm <sup>2</sup>
Stranded, max. H07V-R	16 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	10 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, max.	10 mm <sup>2</sup>

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**Technical data**

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
	wire end ferrule	nominal	0.75 mm <sup>2</sup>
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="http://www.weidmuller.com">www.weidmuller.com</a> <a href="#">H0,75/10</a>
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
	wire end ferrule	nominal	0.75 mm <sup>2</sup>
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">H0,75/10</a>
Clampable conductor	Cross-section for conductor connection	Type	fine-wired
	wire end ferrule	nominal	1 mm <sup>2</sup>
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	<a href="#">H1,0/10</a>

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P)

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1	Rated current, min. number of poles (Tu=20°C)	57 A
Rated current, max. number of poles (Tu=20°C)	57 A	Rated voltage for surge voltage class / pollution degree III/3	500 V
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV		

**Rated data acc. to CSA**

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	65 A
Rated current (Use group C / CSA)	65 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 6

**Rated data acc. to UL 1059**

Institute (cURus)		Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	65 A
Rated current (Use group C / UL 1059)	65 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Packing**

Packaging	Box	VPE length	195 mm
VPE width	120 mm	VPE height	75 mm

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**Technical data****Classifications**

ETIM 6.0	EC001283	ETIM 7.0	EC001283
ETIM 8.0	EC001283	ECLASS 9.0	27-14-11-34
ECLASS 9.1	27-14-11-34	ECLASS 10.0	27-14-11-34
ECLASS 11.0	27-14-11-34	ECLASS 12.0	27-14-11-34

**Important note**

## Notes

- Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates.
- 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.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional variants on request
- WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

**Approvals**

## Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">20220114 Change color for feedthrough terminals – WGK GY</a> <a href="#">20220114 WGK GY - Farbänderung</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>

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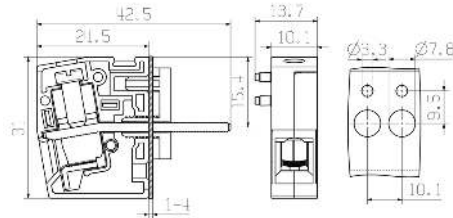
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**Drawings**

**Dimensional drawing**



**Derating curve**

