

OMNIMATE Power - series WGK VWGK 6 GY BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Product image



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

Type	VWGK 6 GY BX
Order No.	248480000
Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 6 mm ² , Wemid (PA), Direct mounting, Feed-through (bushing)
GTIN (EAN)	4050118520460
Qty.	50 pc(s).
Product data	IEC: 500 V / 41 A / 0.5 - 10 mm ² UL: 300 V / 50 A / AWG 22 - AWG 10
Packaging	Box

**OMNIMATE Power - series WGK
VWGK 6 GY BX**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data

Dimensions and weights

Length	15.5 mm	Length (inches)	0.61 inch
Width	10 mm	Width (inches)	0.394 inch
Height	31.5 mm	Height (inches)	1.24 inch
Height of lowest version	31.5 mm	Net weight	7.1 g

System parameters

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw / solder connection
Conductor outlet direction	180°	Fitted by customer	No
Screwdriver blade	0.8 x 4.0	Tightening torque, min.	0.8 Nm
Tightening torque, max.	1.8 Nm	Clamping screw	M 3.5
Stripping length	13 mm	Touch-safe protection acc. to DIN VDE 0470	IP 20

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.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	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 ²
Clamping range, max.	10 mm ²
Wire connection cross section AWG, min.	AWG 22
Wire connection cross section AWG, max.	AWG 10
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	10 mm ²
Stranded, max. H07V-R	6 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	6 mm ²
w. wire end ferrule, DIN 46228 pt 1, min	0.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm ²

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	2.5 mm ²
	AEH	Stripping length	nominal 12 mm
		Type	fine-wired
	Cross-section for conductor connection	nominal	4 mm ²
		AEH	Stripping length
	Cross-section for conductor connection		Type
		nominal	6 mm ²
	AEH	Stripping length	nominal 12 mm
		Cross-section for conductor connection	Type
	nominal		1.5 mm ²
	AEH	Stripping length	nominal 12 mm

Max. clamping range 10 mm²

**OMNIMATE Power - series WGK
VWGK 6 GY BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data
Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	41 A
Rated current, max. no. of poles (Tu=20°C)	41 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)	50 A
Rated current (Use group C / CSA)	50 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 10

Rated data acc. to UL 1059

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)	50 A
Rated current (Use group C / UL 1059)	50 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 10

Packing

Packaging	Box	VPE length	0 m
VPE width	0 m	VPE height	0 m

Classifications

ETIM 6.0	EC001283	eClass 6.2	27-14-11-34
eClass 9.0	27-14-11-34	eClass 9.1	27-14-11-34

Notes

Notes	<ul style="list-style-type: none"> • 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 colours on request • VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V
-------	--

Approvals

ROHS	Conform
------	---------

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
--	---

Data sheet**OMNIMATE Power - series WGK
VWGK 6 GY BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings**Dimensional drawing**