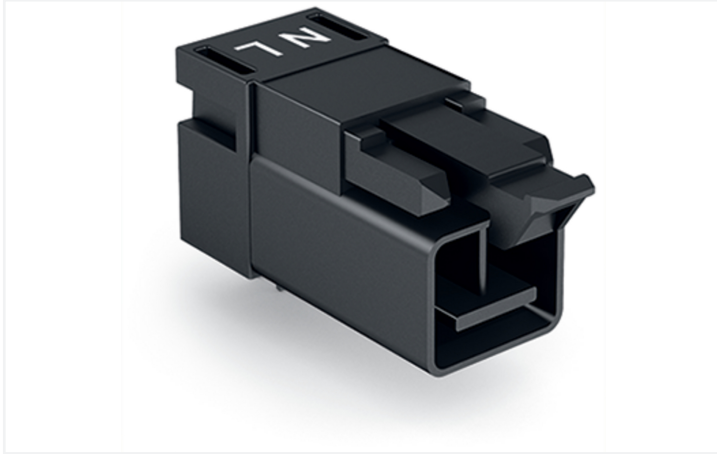


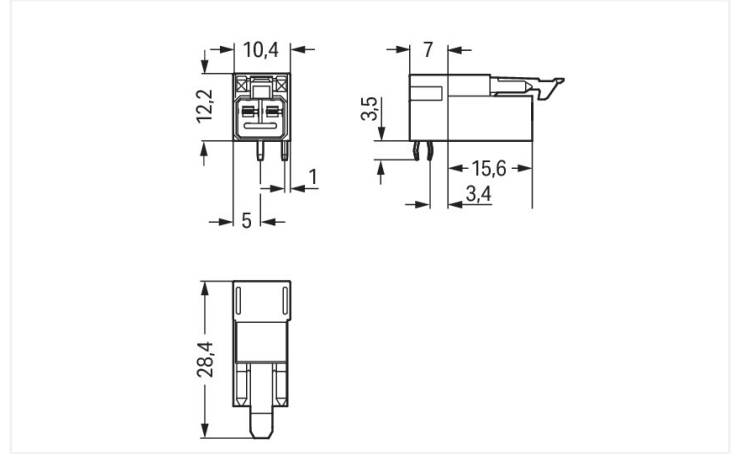
Data Sheet | Item Number: 890-812/011-000

Plug for PCBs; angled; 2-pole; Cod. A; black

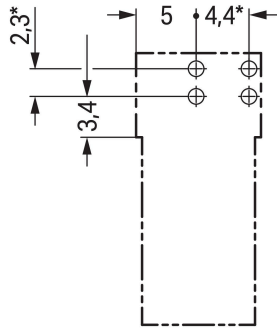
<https://www.wago.com/890-812/011-000>



Color: ■ black



Dimensions in mm



* ± 0.05 mm

Drilled hole diameter: $1.3^{+0.1}$ mm

Dimensions in mm

Male connector/plug WINSTA® MINI rated current 16 A

Reliably secure electrical installations through special connection technology: The WINSTA® MINI male connector/plug. The pluggable PCB connectors with spring pressure connection technology and Push-in CAGE CLAMP® technology from WAGO permit fast, vibration-proof, maintenance-free terminal connections. The coding options reduce installation errors, allowing fast, secure wiring of all components. Thanks to the color coding and mechanical A coding of WINSTA® MINI pcb connectors, you can clearly distinguish different circuits. WINSTA® MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is very good for lights, for instance, since as a result of LED technology; due to complex systems, these offer significantly less space for the connection technology.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MINI

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Now you can also reduce installation expenses without compromising safety and quality: with marking eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- compact design for conductors with a cross-section up to 1.5 mm^2
- with A coding for a great number of uses
- quick replacement of defective units during ongoing operation



Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	250 V	-	-	
Rated surge voltage	4 kV	-	-	
Rated current	16 A	-	-	
Approvals per				
Rated voltage		600 V		
Rated current		14 A		
General information				
Note on contact resistance		approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket		

Connection data				
Total number of potentials		2		
Number of levels		1		
Connection 1				
Pole number		2		

Physical data	
Pin spacing	4.4 mm / 0.173 inches
Width	10.4 mm / 0.41 inches
Height	15.7 mm / 0.618 inches
Height from the surface	12.2 mm / 0.48 inches
Depth	28.4 mm / 1.118 inches
Solder pin length	3.5 mm
Solder pin dimensions	1 x 0.8 mm
Drilled hole diameter with tolerance	1.3 ^(+0.1) mm

Mechanical data	
Use	General mains applications
Coding	A
Variable coding	No
Marking	N L
Potential marking	N L
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	Locked: > 80 N
Unmating force of a plug-in connection	Unlocked: approx. 20 ... 70 N (depending on pole number)
Number of mating cycles	200, without resistive load
Design	angled

Plug-in connection	
Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Note on mismating protection	All WINSTA® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole
Mating direction to the PCB	0 °
Locking lever	Yes
Locking of plug-in connection	Locking lever



Plug-in connection		
Note on locking system		All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug/socket).
PCB contact		
PCB contact		THT
Solder pin arrangement		2 in-line solder pins/pole
Number of solder pins per potential		2
Material data		
Note (material data)		Information on material specifications can be found here
Color		black
Cover color		gray
Material group		I
Insulation material (main housing)		Polyamide (PA66)
Flammability class per UL94		V0
Clamping spring material		Chrome-nickel spring steel (CrNi)
Contact material		Copper or copper alloy; surface-treated
Contact Plating		Tin
Fire load		0.057 MJ
Weight		2.4 g
Environmental requirements		
Processing temperature		-5 ... +40 °C
Continuous operating temperature		-35 ... +85 °C
Note on continuous operating temperature		Insulating parts for temperatures ≤ 105 °C
Commercial data		
eCl@ss 10.0		27-44-06-05
eCl@ss 9.0		27-44-06-05
ETIM 9.0		EC002637
ETIM 8.0		EC002637
PU (SPU)		100 pcs
Packaging type		Box
Country of origin		PL
GTIN		4050821695684
Customs tariff number		85366990990
Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123231
CCA DEKRA Certification B.V.	IEC 61535	NL-85020
cURus Underwriters Laboratories Inc.	UL 1977	E45171

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	Steel Vessel Rules	19-HG1869855-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	EN 61535	08/20047 (E2)

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 890-812/011-000



CAD/CAE-Data

CAD data
2D/3D Models 890-812/011-000



CAE data
ZUKEN Portal 890-812/011-000

