

Data Sheet | Item Number: 891-8982/016-501

pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. I; H05Z1Z1-F
2 x 1,50 mm²; 5 m; 1,50 mm²; blue

<https://www.wago.com/891-8982/016-501>



Color: ■ blue



Dimensions in mm

Cable assembly *WINSTA*® MINI with protection type IP20

The *WINSTA*® MINI cable assembly with protection against mismatching provides the foundation for installation of solid and fine-stranded conductors. WAGO pluggable installation connectors can be used when criteria repeat or are planned on a defined pattern, for example for installing grid lighting or flush-mount lighting. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. *WINSTA*® MINI pluggable installation connectors with I coding in blue are above all suitable for easy lighting installation, for instance for the dimming function of DALI lights. Due to its particularly minimal dimensions, our *WINSTA*® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is specifically suitable in very tight spaces, i.e., for connections when very little room is available. Of course, the safety of buildings must always be ensured, even after the electrical installation has been performed. The required safety requirements in connection with EU CPR are met by this product through fire class E. Not using halogen additives in the manufacture of this cable assembly substantially improves fire safety and minimises environmental pollution.

Fast, error-free assembly thanks to cable assemblies from WAGO

A socket and a plug are available. *WINSTA*® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Now you can also lower installation expenses without compromising quality and safety: with protection against mismatching reduces the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismatching
- easy tool-free operation, a wide range of coding options
- for lighting management
- exact dimensions
- fast, secure installation

Notes

Note

Cables with a different fire class can be found in the eShop.

Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	-	-
Rated impulse withstand voltage	4 kV	-	-
Rated current	16 A	-	-

General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket
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Connection Data

Total number of potentials	2
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Connection 1

Pole number	2
Wire cross-section	1.5 mm ²
Connection type	Socket - Plug

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	15.6 mm / 0.614 inches
Height	13.2 mm / 0.52 inches
Total length	5 m

Mechanical data

Use	DALI, Lighting Management
Coding	I
Variable coding	No
Marking	+ -
Potential marking	+ -
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	when locked: > 80N
Unmating force of a plug-in connection	when unlocked: approx. 20 ... 70 N (depending on pole number)
Number of mating cycles	200, without resistive load
Connection type	Socket - Plug
Type of pre-assembled cable	Interconnecting cable
Cable type	H05Z1Z1-F 2x1.5
Protection type	IP20; IP40 when mated

Plug-in connection

Mismating protection	Yes
Note on mismating protection	All <i>WINSTA</i> ® 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
Locking lever	Can be retrofitted
Locking of plug-in connection	Locking lever
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).

Material data

Note (material data)	Information on material specifications can be found here
Color	blue
Insulation material (main housing)	Polyamide (PA66)
Fire class per EN 50575	E _{ca}
Contact material	Copper or copper alloy; surface-treated
Contact Plating	Tin
Fire load	149.284 MJ
Connector color	blue
Strain relief color	black
Sheathed cable color	black
Printing color of sheathed cable	white
Halogen-free	Yes
Silicon-free	Yes
Sheath material	Halogen-free
Rubber cable	No
Weight	398 g
Copper weight of the raw cable	0.029 kg/m

Environmental requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Cable for temperatures ≤ 70 °C (including halogen-free) Insulating parts for temperatures ≤ 105 °C

Commercial data

PU (SPU)	1 pcs
Packaging type	unpacked
Country of origin	PL
GTIN	4055143391610
Customs tariff number	85444290900

Product Classification

UNSPSC	26121629
eCl@ss 10.0	27-44-06-04
eCl@ss 9.0	27-44-06-04
ETIM 9.0	EC002587
ETIM 10.0	EC002587
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Documentation

Bid Text

891-8982/016-501	19.02.2019	xml 3.00 KB	
891-8982/016-501	24.11.2014	doc 24.50 KB	

CAD/CAE-Data

CAE data

WSCAD Universe
891-8982/016-501



1 Compatible Products

1.1 Required Accessories

1.1.1 Locking system

1.1.1.1 Locking system



Item No.: 890-111

Locking lever; for flying leads; for tool operation; black

Item No.: 890-131

Locking lever; for flying leads; for tool operation; white

Item No.: 890-101

Locking lever; for manual operation; black

Item No.: 890-121

Locking lever; for manual operation; white

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



Item No.: 897-2001

Protective cap; Type1; for sockets and plugs; PVC; red

1.2.2 Installation

1.2.2.1 Mounting accessories



Item No.: 890-310

Mounting carrier; 2- to 5-pole; for flying leads; black



Item No.: 890-311

Mounting carrier; 2- to 5-pole; for flying leads; white