



THB.381.A2A

TH381 - micro-Plug&Socket connector IP68/IP69K

MADE IN ITALY



NEW

CLASS II **IK06 IP69K IP68**     



INSTALLATION INSTRUCTIONS

- Techno AssemblyTH381 PDF • 1,015 KB

DOCUMENTATION

- MICRON-NECT brochure ENG PDF • 3 MB

MARKETING COLLATERALS

- Pagina ADV Techno M 2 EN PDF • 2 MB

GENERAL DESCRIPTION

Type of installation	Plug and Socket connector
Type of product (Family)	TEEPLUG® - IP68/IP69K Plug&Socket circular connectors
Product name (Series)	TH381 - micro-Plug&Socket connector IP68/IP69K
Product configuration	Plug connector (cable-to-cable)
Colour	Black (Plastic components) - Techno green (Rubber components)
Outer dimension	Φ 14 mm x 90 mm (when plug-socket matched)

ELECTRICAL CHARACTERISTICS

Number of poles	2
Contact marking	1 - 2
Type of connection	screw (M2 - max. 0.2 Nm)
Operating current	max. 10A
Operating voltage	max. 400V AC/DC
Impulse withstand voltage	4KV

i Contact our Customer Service for availability of other markings. The connector can be used for Classe 2 devices up to 250V AC (EN60598-1:2008-10).

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)	IP68/IP69K
Protection against impact (IK)	IK06
Corrosion resistance	Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000, Test Ka (168h)
Connection and disconnection cycles	100 cycles

i Contact our Customer Service for availability of products with different IP and IK protection degrees.

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)	0.25 mm ² - 1.5 mm ²
Wire cross-section min. - max. (Solid cable)	0.25 mm ² - 1.5 mm ²
Cable diameter min. - max.	5.8 mm - 6.9 mm

i For cables with diameter > 6.9 mm take the product code THB.381.A2A.L. For cables with diameter < 5.8 mm selezionare i relativi accessori.

MATERIAL CHARACTERISTICS

Connector housing	PA66 GF UL94 V0 (f1) GWT 960°C
Cable gland	PA66 GF UL94 V2 (f1) GWT 850°C
Sealing	TPE-S
Grommets	TPE-S



Contacts	CuZn (silver plated)
Screws	Steel (rivestimento Zinco)
Impulse withstand category	II
Pollution degree	2
Material properties	Halogen Free - Silicone Free
T marking	T 125°C
Operating temperature range	-40°C / +125°C
Proof Tracking Index (PTI)	PTI 175

i Contact our Customer Service for more information on additional tests and approvals.

INDUSTRY STANDARDS

Standard number	EN 61984:2009
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PACKAGING INFORMATION

Packaging method	not assembled components
Quantity (product/box)	200 products/box



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Image	Code	Type	Cable min - max	Pieces/box
Connector cable to cable				
	THB.381.A2A.L	Plug	7.0 mm - 8.0 mm ⁽³⁾	200
	THB.381.A2B.L 	Plug (disconnection with a tool acc. EN 61535)	7.0 mm - 8.0 mm ⁽³⁾	200
	THB.381.A2A	Plug	5.8 mm - 6.9 mm ⁽⁴⁾	200
	THB.381.A2B 	Plug (disconnection with a tool acc. EN 61535)	5.8 mm - 6.9 mm ⁽⁴⁾	200
	THB.381.B2A.L	Socket	7.0 mm - 8.0 mm ⁽³⁾	200
	THB.381.B2A	Socket	5.8 mm - 6.9 mm ⁽⁴⁾	200
Connector panel-mounted ⁽¹⁾				
	THB.381.N2A	Plug M16	-	200
	THB.381.N2B 	Plug M16 (disconnection with a tool acc. EN 61535)	-	200
	THB.381.L2A ⁽²⁾	Plug M11	-	200
	THB.381.L2B ⁽²⁾ 	Plug M11 (disconnection with a tool acc. EN 61535)	-	200
	THB.381.P2A	Socket M16	-	200
	THB.381.M2A ⁽²⁾	Socket M11	-	200
Accessories				
	6000448GT	Closure cap IP68 for socket	-	200
	6000447GT	Closure cap IP68 for plug	-	200
	6000473GT	Cable reduction	3.0 mm - 5.5 mm	200
	6000461GT	Cable reduction for 2-single pole cables	1.9 mm - 2.5 mm	200
	6000462KC	special spanner for quick installation	-	100

⁽¹⁾ Supplied with the fixing nut - ⁽²⁾ Only for plastic panels or Class III (SELV) devices - ⁽³⁾ Can be used with cable H07RN-F 2 x 1 mm²

⁽⁴⁾ Can be used with cable H05RN-F 2 x 1 mm² and smaller cables.



We provide wired connectors with cable.
Contact our Customer Service for more information.