

product type designation

product description



Figure similar

PROFIBUS connector

PROFIBUS bus connector, RS 485, screw, with programming port, 35°

SIPLUS DP PROFIBUS plug with R - with PG - inclined based on 6ES7972-0BB42-0XA0 with conformal coating, -40...+70 °C, connection plug for PROFIBUS up to 12 Mbps, with inclined cable outlet, terminating resistor with isolating function, with PG socket

Technical Product Detail Page

<https://l.siemens.com/1P6AG1972-0BB42-7XA0>

suitability for use

for connecting PROFIBUS stations to the PROFIBUS bus cable

transfer rate

transfer rate / with PROFIBUS DP

9.6 kbit/s ... 12 Mbit/s

interfaces

number of electrical connections

- for PROFIBUS cables

2

- for network components or terminal equipment

1

type of electrical connection

- for PROFIBUS cables

Screw

- for network components or terminal equipment

9-pin sub D connector

type of electrical connection / FastConnect

No

mechanical data

design of terminating resistor

Resistor combination integrated and connectable via slide switch

material / of the enclosure

plastic

locking mechanism design

Screwed joint

design, dimensions and weights

type of cable outlet

35 degree cable outlet

width

15.8 mm

height

54 mm

depth

39.5 mm

net weight

67 g

ambient conditions

ambient temperature

- during operation
- during storage
- during transport
- in horizontal mounting position / during operation
- during storage and transport

-40 ... +70 °C
-40 ... +70 °C
-40 ... +70 °C
70 ... -40 °C
70 ... -40 °C

installation altitude / at height above sea level / maximum

5000 m

ambient condition / relating to ambient temperature - air pressure - installation altitude

Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)

relative humidity

- with condensation / maximum

100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)

- with condensation / according to IEC 60068-2-38 /

100 %; RH incl. condensation / frost (no commissioning in bedewed state),

maximum	horizontal installation
resistance to biologically active substances <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-6 	<p>Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request</p> <p>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</p>
resistance to chemically active substances <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-6 	<p>Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p>
resistance to mechanically active substances <ul style="list-style-type: none"> conformity according to EN 60721-3-3 conformity according to EN 60721-3-6 	<p>Yes; Class 3S4 incl. sand, dust, *</p> <p>Yes; Class 6S3 incl. sand, dust; *</p>
environmental category / according to IEC 60721 / note	* The supplied plug covers must remain in place over the unused interfaces during operation!
coating / for equipped printed circuit board / according to EN 61086	Yes; Class 2 for high reliability
type of coating <ul style="list-style-type: none"> protection against pollution according to EN 60664-3 for electronic devices in railway applications according to EN 50155 	<p>Yes; Type 1 protection</p> <p>Yes; protective coating of the Class PC2 according to EN 50155:2025</p>
type of test / of the coating / according to MIL-I-46058C	Yes; Discoloration of coating possible during service life
product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A
protection class IP	IP20
product features, product functions, product components / general	
product feature <ul style="list-style-type: none"> silicon-free 	Yes
product component <ul style="list-style-type: none"> PG connection socket strain relief 	<p>Yes</p> <p>Yes</p>
standards, specifications, approvals	
certificate of suitability <ul style="list-style-type: none"> RoHS conformity UL approval 	<p>Yes</p> <p>Yes</p>
resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
further information / internet links	
internet link <ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/simatic-net</p> <p>https://sieportal.siemens.com</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
security information	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase</p>

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Approvals / Certificates

General Product Approval	EMV
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EG-Konf.

[Manufacturer Declaration](#)



[China RoHS](#)


UL


RCM

For use in hazardous locations


IECEX


ATEX

[CCC-Ex](#)

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