

product type designation



PROFIBUS connector

SIPLUS DP PROFIBUS plug with R - with PG - 90 degrees based on 6ES7972-0BB12-0XA0 with conformal coating, -25...+70 °C, connection plug for PROFIBUS up to 12 Mbps, 90° cable outlet, terminating resistor with isolating function, with PG socket

product brand name

SIPLUS

Technical Product Detail Page

<https://l.siemens.com/1P6AG1972-0BB12-2XA0>

mechanical data

locking mechanism design

Screwed joint

ambient conditions

ambient temperature

- during operation -40 ... +70 °C
- in horizontal mounting position / during operation 70 ... -40 °C
- during storage and transport 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 / maximum 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation

resistance to biologically active substances

- conformity according to EN 60721-3-3 Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- conformity according to EN 60721-3-6 Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request

resistance to chemically active substances

- conformity according to EN 60721-3-3 Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- conformity according to EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *

resistance to mechanically active substances

- conformity according to EN 60721-3-3 Yes; Class 3S4 incl. sand, dust, *
- conformity according to EN 60721-3-6 Yes; Class 6S3 incl. sand, dust; *

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

- protection against pollution according to EN 60664-3 Yes; Type 1 protection
- for electronic devices in railway applications according to EN 50155 Yes; protective coating of the Class PC2 according to EN 50155:2023

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

Yes; Conformal coating, Class A

Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A					
standards, specifications, approvals					
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 - 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	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com				
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For use in hazardous locations					
 IECEX	CCC-Ex				

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