

product type designation	<b>PROFIBUS connector</b>
	SIPLUS DP PROFIBUS plug with PG - 90 degrees based on 6ES7972-0BB70-0XA0 with conformal coating, -40...+70 °C, connection plug for PROFIBUS up to 12 Mbps, 90° cable outlet, insulation displacement method FastConnect, with PG socket
Technical Product Detail Page	<a href="https://l.siemens.com/1P6AG1972-0BB70-7XA0">https://l.siemens.com/1P6AG1972-0BB70-7XA0</a>
<b>transfer rate</b>	
transfer rate / with PROFIBUS DP	9.6 kbit/s ... 12 Mbit/s
<b>mechanical data</b>	
locking mechanism design	Screwed joint
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>in horizontal mounting position / during operation</li> <li>during storage and transport</li> </ul>	-40 ... +70 °C -40 °C -40 °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	
<ul style="list-style-type: none"> <li>with condensation / maximum</li> <li>with condensation / according to IEC 60068-2-38 / maximum</li> </ul>	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
resistance to biologically active substances	
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
resistance to chemically active substances	
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
resistance to mechanically active substances	
<ul style="list-style-type: none"> <li>conformity according to EN 60721-3-3</li> <li>conformity according to EN 60721-3-6</li> </ul>	Yes; Class 3S4 incl. sand, dust, * 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	
<ul style="list-style-type: none"> <li>protection against pollution according to EN 60664-3</li> <li>for electronic devices in railway applications according to EN 50155</li> </ul>	Yes; Type 1 protection Yes; protective coating of the Class PC2 according to EN 50155:2026
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
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>	Yes
resistance to air pollution / conformity according to ANSI/ISA-	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas)

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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>

**security information**

security information

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**Approvals / Certificates**

**General Product Approval**



[Manufacturer Declaration](#)



[China RoHS](#)



**General Product Approval**

**EMV**

**For use in hazardous locations**

[China RoHS](#)



**For use in hazardous locations**

[CCC-Ex](#)

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