

Data sheet

6AG1972-0BB42-7XA0

Product description

PROFIBUS bus connector, RS 485, screw, with PG socket, 35°  
SIPLUS DP PB-CONNECTOR WITH R - W PG - ANGLED -40 ...  
+70°C with conformal coating based on 6ES7972-0BB42-0XA0



Figure similar

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	Integrated resistor combination that can be selected with slide switch
Material / of the enclosure	plastic
Locking mechanism design	Screw

## 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	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>in horizontal mounting position / during operation</li> </ul>	70 ... -40 °C
<ul style="list-style-type: none"> <li>during storage and transport</li> </ul>	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 1140 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
<ul style="list-style-type: none"> <li>with condensation / maximum</li> </ul>	100 %; RH incl. condensation/frost permitted (no commissioning when condensation is present)
<ul style="list-style-type: none"> <li>with condensation / acc. to IEC 60068-2-38 / maximum</li> </ul>	100 %
Resistance to biologically active substances	
<ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold and fungal spores (excluding fauna); Class 3B3 on request
<ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-6</li> </ul>	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 acc. to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-6</li> </ul>	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 acc. to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust; *
<ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Environmental category / acc. to IEC 60721 / Note	*. The supplied plug covers must remain in place on the unused interfaces during operation!
Coating / for equipped printed circuit board / acc. to EN 61086	Yes
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 acc. to EN 50155</li> </ul>	<p>Yes; Protection of the type 1</p> <p>Yes</p>
Type of test / of the coating / acc. to MIL-I-46058C	Yes; Coating discoloration during service life possible
Product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. 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"> <li>• silicon-free</li> </ul>	Yes
Product component	
<ul style="list-style-type: none"> <li>• PG connection socket</li> <li>• strain relief</li> </ul>	<p>Yes</p> <p>Yes</p>

#### Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> <li>• RoHS conformity</li> <li>• UL approval</li> </ul>	<p>Yes</p> <p>Yes</p>

#### Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

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