

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50243985

Blatt Page
0001

Ihr Zeichen Client Reference
K.S.

Unser Zeichen Our Reference
ZJL-MAS- 12026557 001

Ausstellungsdatum
26.12.2012

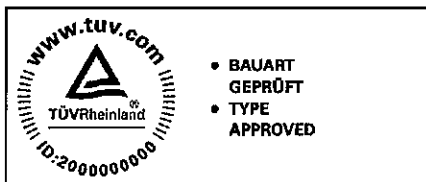
Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder
Hirose Electric Co., Ltd.
5-5-23 Osaki
Shinagawa-ku, Tokyo
141-8587 JAPAN

Fertigungsstätte Manufacturing Plant
Koriyama Hirose Electric Co., Ltd.
87-3 Ogawara
Koriyama-shi, Fukushima
963-8828 JAPAN

Prüfzeichen Test Mark

Geprüft nach Tested acc. to
EN 61984:2009



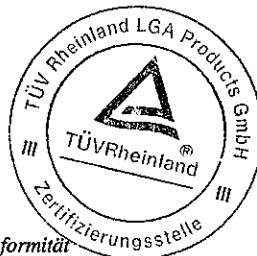
Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Steckverbinder Connector without breaking capacity

Type Designations: PQ50 series
Plug connector 5
Receptable connector 1
In-line receptacle connector 1
(for details, refer to Appendix 1)

Classification : NCB
Number of Poles : 20
Rated Voltage : AC / DC 600V
Rated Current : 6A
Overvoltage Category : III
Pollution Degree : 2
IP-degree : IP00
Max Ambient Temperature : +75°C
Upper Limit Temperature : +105°C
Lower Limit Temperature : -40°C



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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Dipl.-Ing. (FH) M. Geiser



TÜVRheinland®
DIN CERTCO

Certificate No.: R50243985
Our reference: ZJL-MAS- 12026557 001
Appendix No.: 1



(To be filled in by TÜV Rheinland)

Constructional Data Form

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Licenseholder : Hirose Electric Co., Ltd.
5-5-23 Osaki, Shinagawa-ku, Tokyo 141-8587 Japan

Factory :
(full address) Koriyama Hirose Electric Co., Ltd.
87-3 Ogawara Koriyama -- Shi , Fukushima 963-8828 Japan

Type or Model Number : PQ50 Series
Kind of device: Connector without breaking capacity

Specifications	
Type designation	PQ50-20P, PQ50-1618PCFA, PQ50A-1618PCFA, PQ-CM(22.0), PQ50-20P-PC (heretofore described component of plug connector) PQ50-20S, PQ50-20S-FL, PQ50-1618SCFA (heretofore described component of receptacle connector) PQ50-20S, PS50-20S-DS, PQ50-1618SCFA, PQ-CM(22.0), PQ50-20S-JC (heretofore described component of in-line receptacle connector)
Contact material	Copper alloy, plating optional.
Number of poles	20
Rated voltage	AC / DC 600 V
Rated current	6 A
Rated frequency	50 / 60 Hz
Rated withstand voltage	2200 V
Mechanical endurance	500 times
Number of bendings (non-rewirable terminals only)	N/A
Overvoltage category	III
Pollution degree	2
Creepage / Clearance distance	7.9 mm (contact – shell) / 7.4 mm (contact – shell)
Insulation system	contact– contact: ☒ basic ☐ reinforced ☐ NA Shell – contact: ☒ basic ☐ reinforced ☐ NA
Classification	☐ CBC ☒ NCB ☐ other

TÜV Rheinland

Yokohama

(Place)

2012/12/21

(Date)

2012. Dec. 21 *M. Masuda*
(Date) (Signature)

Hirose Electric Co., Ltd.

Kenichi SATO

(Stamp and Signature of Applicant)



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Specifications

Upper limit temperature	105 °C
Lower limit temperature	- 40 °C
Max. ambient temp. at rated current	75 °C
IP code	N/A

Specifications (terminals)

Type of terminals	☐ WRAPPED CONNECTION ☐ CLIP CONNECTION ☐ INSULATION DISPLACEMENT CONNECTION ☐ SCREWLESS TERMINALS ☐ FLAT, QUICK CONNECT TERMINATIONS ☐ SOLDER TERMINALS	☒ CRIMPED CONNECTION ☐ PRESS-IN CONNECTIONS ☐ SCREW TERMINALS ☐ other:
Spec. Tightening torque	N/A	
Rated cross section of conductor	AWG 16 or AWG 18 (1.25 mm ² to 0.75 mm ²)	
Kind of conductor	Flexible	
Required preparation of the conductor	N/A	
Max. Stripping length	Male contact : 3.0 mm , Female contact : 3.0 mm	
Max. Number of conductors per terminal	1	

Materials

Type designation	PQ50-20P, PQ50-1618PCFA, PQ50A-1618PCFA, PQ-CM(22.0), PQ50-20P-PC, PQ50-20S, PQ50-20S-FL, PQ50-1618SCFA PS50-20S-DS, PQ50-20S-JC
Contact material	Copper alloy, Contact Area: Au plated over Nickel under Plating.
Contact block	PBT, MITSUBISHI ENGINEERING-PLASTICS CORP, 5010GN1-30 CTI : 175 V, RTI : 120 °C
Connector body	Shell and Cover case : Zinc alloy
Other parts	Clamp metal and Screw : Steel

TÜV Rheinland

Yokohama

2012/12/21

(Place)

(Date)

30/12/Dec.21 *In Honda*
(Date) (Signature)

Hirose Electric Co., Ltd.

Kenichi SATO

(Stamp and Signature of Applicant)

ABS-001-W/Engineering 安全規格 TÜV V PQ50031219 R50243985 CDP1.doc-V.1.0-19.12.2012



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TYPE NOMENCLATURE:

1. Plug connector

consist of parts

(PQ50-20Pz, PQ50-1618PCFAz, PQ50A-1618PCFAz, PQ-CM(22.0)z, PQ50-20P-PCz)

z: none or (01) to (99)

2. Receptacle connector

consist of parts

(PQ50-20Sz, PQ50-20S-FLz, PQ50-1618SCFAz)

z: none or (01) to (99)

3. In-line receptacle connector

consist of parts

(PQ50-20Sz, PS50-20S-DSz, PQ50-1618SCFAz, PQ-CM(22.0)z, PQ50-20S-JCz)

z: none or (01) to (99)

TÜV Rheinland

Yokohama

(Place)

2012/12/21

(Date)

2012 Dec 21 *R. Inada*
(Date) (Signature)

Hirose Electric Co., Ltd.

Kenichi SATO

(Stamp and Signature of Applicant)