

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50084673

Blatt *Page*  
0007

| <i>Ihr Zeichen Client Reference</i> | <i>Unser Zeichen Our Reference</i> | <i>Ausstellungsdatum</i> | <i>Date of Issue (day/mo/yr)</i> |
|-------------------------------------|------------------------------------|--------------------------|----------------------------------|
| -                                   | ZJL-MAS- 12012119 004              | 29.10.2021               |                                  |

**Genehmigungsinhaber License Holder**  
Tyco Electronics Japan G.K.  
3-5-8 Hisamoto, Takatsu-ku  
Kawasaki-shi, Kanagawa  
213-8535 Japan

**Fertigungsstätte Manufacturing Plant**  
TE Connectivity Connectors  
(Suzhou) Co., LTD.  
No. 33 Chunyao Road,  
Caohu Subdistrict, Suzhou Xiangcheng  
Economic Development Zone,  
215000 Suzhou Jiangsu  
P.R. China

## Prüfzeichen Test Mark



**Geprüft nach Tested acc. to**  
EN 61984:2009  
IEC 61984:2008

**Zertifiziertes Produkt (Geräteidentifikation)**  
*Certified Product (Product Identification)*

**Lizenzentgelte - Einheit**  
*License Fee - Unit*

Connector as page 0001

Addition

|  |   |
|--|---|
| For Type Designations D-4000 series: D-4200 models |   |
| X-23090395-4 (Tab housing)                         | 1 |
| X-2390394-4 (Receptacle)                           | 1 |

Number of Poles: 8  
Rated Voltage: AC/DC 300V/600V  
Rated Current: max. 20A (refer to Appendix 1.2)  
Mechanical Endurance: 50  
Overvoltage Category: II (AC/DC 300V) / III (AC/DC 600V)  
Pollution Degree: 2  
Protection Degree: IP10  
Creepage/Clearance Distance: (see Appendix 1.2)  
Upper/Lower Limit Temperature: +105°C/-55°C  
Max. Ambient Temperature at rated current: +75°C  
Classification: NCB

ANLAGE (Appendix): 1.2

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.

**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



Zertifizierungsstelle

Vilmos Sztaroveczki

**Constructional Data Form for Connector**

**License holder:** Tyco Electronics AMP K.K.  
**(Full address)** 3-5-8 Hisamoto, Takatsu-ku, Kawasaki-shi, Kanagawa 213-8535, Japan  
**Factory:** Tyco Electronics Shenzhen Co.,Ltd.  
**(Full address)** Tyco Electronics Technology Park, Shiyan street, Baoan District, Shenzhen  
 Guangdong, P.R.China  
**Type or Model Number:** Dynamic D-4000 series\_ D4200 Models  
**Kind of device:** Connectors

| Specifications                                       |   |   |                                 |         |
|--|---|---|---------------------------------|---------|
| Type designation                                     | Connector Dynamic D-4000 series_ D4200 Models   |   |                                 |         |
| Contact material                                     | Copper Alloy, Tin or Gold plating   |   |                                 |         |
| Number of poles                                      | 2/3/4/6/8   |   |                                 |         |
| Rated voltage  | 600 V a.c./d.c. (overvoltage category II )<br>300V a.c./d.c. (overvoltage category III) |   |                                 |         |
| Rated current  | Unit: A   |   |                                 |         |
|  | <b>Maximum</b>  | Wire gauge                                  |                                 |         |
|  | Number of Circuit   | AWG# 12                                     | AWG# 14                         | AWG# 16 |
|  | 2   | 24  | 21                              | 16      |
|  | 3   | 23  | 20                              | 15      |
|  | 4   | 22  | 19                              | 14      |
|  | <b>8</b>  | 20  | 17                              | 12      |
| Mechanical endurance (cycles)                        | 50 cycles   |   |                                 |         |
| Classification                                       | <input type="checkbox"/> CBC  | <input checked="" type="checkbox"/> Non CBC | <input type="checkbox"/> other: |         |
| Number of bendings<br>(non-rewirable terminals only) | N/A   |   |                                 |         |
| Upper limit temperature                              | 105 °C  |   |                                 |         |
| Lower limit temperature                              | -55 °C  |   |                                 |         |
| Maximum ambient temperature at rated current         | 75 °C   |   |                                 |         |

| IP Degree Conditions |                          |   |  |
|----------------------|--------------------------|---|--|
| Type of connector    | Receptacle & TAB Housing |   | TAB Header   |
| IP code              | IP-10                    | <input checked="" type="checkbox"/> mated<br><input type="checkbox"/> unmated | IP-00<br><input checked="" type="checkbox"/> mated<br><input type="checkbox"/> unmated |
| Backshell            | N/A                      |   | N/A  |
| Cable clamp          | N/A                      |   | N/A  |
| Cable range          | N/A                      |   | N/A  |
| Fastening torque     | N/A                      |   | N/A  |

TÜV Rheinland Group

2021 Oct. 29

(Date and Signature by TÜVR)



Kawasaki

(Place)

Tyco Electronics Japan G.K.

(Stamp and Signature of Applicant)

2021.10.29

(Date)

H.Osabe

**Constructional Data Form for Connector**

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| <b>Insulation Coordination</b>  |   |
|---|---|
| Overvoltage category  | II and III  |
| Pollution degree  | 2   |
| Test voltages   | Contact – contact : 4000 V a.c.<br>Enclosure – contact : 4000 V a.c.  |
| Minimum creepage distances  | Contact – contact : 6.65 mm<br>Enclosure – contact : 2.4 mm   |
| Minimum clearance distances   | Contact – contact : 4.35 mm<br>Enclosure – contact : 2.4 mm (not applicable for header)   |
| Insulation system (IEC 60664-1)<br><i>Under the following conditions:</i> | Contact – contact : <input checked="" type="checkbox"/> basic <input type="checkbox"/> reinforced <input type="checkbox"/> NA<br>Enclosure – contact : <input checked="" type="checkbox"/> basic <input type="checkbox"/> reinforced <input type="checkbox"/> NA<br>Enclosure – contact (Header): <input type="checkbox"/> basic <input type="checkbox"/> reinforced <input checked="" type="checkbox"/> NA<br>Header parts are for PCB mounting, proper level of insulation need to be provided by installation. |

| <b>Specifications (terminals)</b>      |  |
|--|--|
| Type of terminals                      | <input type="checkbox"/> WRAPPED CONNECTIONS <input checked="" type="checkbox"/> SOLDER TERMINALS<br><input type="checkbox"/> CLIP CONNECTIONS <input checked="" type="checkbox"/> CRIMPED CONNECTIONS<br><input type="checkbox"/> INSULATION DISPLACEMENT CONNECTIONS <input type="checkbox"/> PRESS-IN CONNECTIONS<br><input type="checkbox"/> SCREWLESS TERMINALS <input type="checkbox"/> SCREW TERMINALS<br><input type="checkbox"/> FLAT, QUICK CONNECT TERMINATIONS <input type="checkbox"/> other: |
| Terminal designation                   |  |
| Spec. Tightening torque                | N/A  |
| Rated cross section of conductor       | AWG# 12 - 16   |
| Type of conductor                      | Flexible   |
| Required preparation of the conductor  | N/A  |
| Max. Stripping length                  | 5 mm   |
| Max. Number of conductors per terminal | 1  |

| <b>Materials</b>        |  |     |
|-------------------------|--|-----|
| Type designation        | Receptacle, TAB housing and TAB Header |     |
| Contact material        | Copper Alloy, Tin or Gold plating      |     |
| Contact block (housing) | Pin Front Insert                       | N/A |
|                         | Pin Middle Insert                      | N/A |
|                         | Pin Rear Insert                        | N/A |

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**Constructional Data Form for Connector**

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**TYPE NOMENCLATURE:**
**Contacts:**

| Wire Range | Receptacle |            | TAB         |             |
|------------|------------|------------|-------------|-------------|
|            | Strip Form | Loose Form | Strip Form  | Loose Form  |
| AWG# 16-14 | 1747418-2  | 1747499-2  | 1747419-2   | 1747501-2   |
|            |            |            | 1-1747419-2 | 1-1747501-2 |
| AWG# 14-12 | 1747415-2  | 1747498-2  | 1747416-2   | 1747500-2   |
|            |            |            | 1-1747416-2 | 1-1747500-2 |

Note; The prefix 1- denote long size Tab contacts ( to be used for protective earthing contact. contact identification is ensured in the end-use product).

**D-4200 models:**
**Connector (Tab housing):**

| Poles    | Panel Mount        | Free Hanging |
|----------|--------------------|--------------|
|          | Part Number        | Part Number  |
| 2        | X-1747535-2        | X-1747414-2  |
| 3        | X-1747535-3        | X-1747414-3  |
| 4        | X-1747535-4        | X-1747414-4  |
| 6        | X-1903331-3        | X-1903330-3  |
| <b>8</b> | <b>X-2390395-4</b> | ----         |

Note; The prefix "X"- denote Keying type (e.g. 1~9.)

**Connector (receptacle):**

| Poles    | Part Number        |
|----------|--------------------|
| 2        | X-1747276-2        |
| 3        | X-1747276-3        |
| 4        | X-1727476-4        |
| 6        | X-1903329-3        |
| <b>8</b> | <b>X-2390394-4</b> |

**Connector (header):**

| Poles | (Vertical type) | (Horizontal type) |
|-------|-----------------|-------------------|
|       | Part Number     | Part Number       |
| 2     | X-1747277-2     | X-1903328-2       |
| 3     | X-1747277-3     | X-1903328-3       |
| 4     | X-1747277-4     | X-1903328-4       |

End of the documentations.

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