

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 9650368

Blatt *Page*  
15

Ihr Zeichen *Client Reference*  
PO#2713665408

Unser Zeichen *Our Reference*  
ZJL-MAS- 09660389 009

Ausstellungsdatum  
16.02.2021

*Date of Issue*  
(day/mo/yr)

**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*



Type Approved  
Safety  
Regular Production  
Surveillance

www.tuv.com  
ID 2000000000

EN 61984:2009  
IEC 61984:2008

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

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

Connector Connector, as page 0001

Change

Rated Voltage (Overvoltage Category, OVC): 600V, OVC III  
Change to: 1) AC/DC 400V, OVC III; 2) AC/DC 600V, OVC III  
3) AC/DC 630V, OVC II

Rated Current at  $t_a = 20^\circ\text{C}$ : 76A (2-pole); 72A (3-pole)  
70A (4-pole); 59A (6-pole); 50A (8-pole)

Derating use at higher ambient temperature than  $20^\circ\text{C}$ .  
see Appendix 1.4 for details.

Upper/Lower Limit Temperature :  $+105^\circ\text{C}/-30^\circ\text{C}$   
changed to:  $+105^\circ\text{C}/-55^\circ\text{C}$

Factory: Tyco Electronics (Qingdao) Ltd.  
3rd ST. Qingdao, export processing zone, Hetao  
Chengyang Qingdao 266113 Shandong P.R. China

Factory: Tyco Electronics AMP Shanghai Ltd.  
No. 668 Guiping Road 200233 Shanghai P.R. China

withdrawn

ANLAGE (Appendix): 1.4

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**

License holder: **Tyco Electronics Japan G.K.**  
 3-5-8 Hisamoto, Takatsu-Ku, Kawasaki-Shi, Kanagawa 213-8535, Japan

Factory: **TE Connectivity Connectors(Suzhou) Co., Ltd.**  
 (Full address) No.33 Chunyao Road, Caohu Subdistrict, Suzhou Xiangcheng Economic  
 Development Zone, Suzhou, Jiangsu 215000, P.R. China.

Type or Model Number: AMP Dynamic D-5200 Series

Kind of device: Connector

Specifications	
Type designation	<b>Dynamic D-5200 Series</b>
Contact material	Copper Alloy, Gold or Silver plating
Number of poles	2/3/4/6/8 (see Table-1)
Rated Voltage	Overvoltage category II & Pollution degree 2: 630 V AC/DC Overvoltage category III & Pollution degree 2: 600 V AC/DC Overvoltage category II, III & Pollution degree 3: 400 V AC/DC
Rated Current	See Table-3 (Reference derating curve, see APPENDIX)
Mechanical endurance	50
Classification	<input type="checkbox"/> CBC <input checked="" type="checkbox"/> Non CBC <input type="checkbox"/> other:
Number of bendings (non-rewirable terminals only)	N/A
Upper limit temperature	105 °C
Lower limit temperature	-55 °C

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

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2021/1/25

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<b>Insulation Coordination</b>	
Overvoltage category	II, III
Pollution degree	2, 3
Test voltages	Contact – contact : 3310 V AC Shell – contact : N/A
Minimum creepage distances	Contact–contact D5200 Series :7.2 mm (pollution deg 2), 6.8 mm (pollution deg 3) D5200alpha :6.5 mm Shell – contact : N/A
Minimum clearance distances	Contact – contact : 6.3 mm Shell – contact : N/A
Insulation system (IEC 60664-1)	Contact – contact : <input checked="" type="checkbox"/> basic <input type="checkbox"/> reinforced <input type="checkbox"/> NA Shell – contact : <input type="checkbox"/> basic <input type="checkbox"/> reinforced <input checked="" type="checkbox"/> NA

<b>Specifications (terminals)</b>	
Type of terminals	<input type="checkbox"/> WRAPPED CONNECTIONS <input checked="" type="checkbox"/> SOLDER TERMINALS <input type="checkbox"/> CLIP CONNECTIONS <input checked="" type="checkbox"/> CRIMPED CONNECTIONS <input type="checkbox"/> INSULATION DISPLACEMENT CONNECTIONS <input type="checkbox"/> PRESS-IN CONNECTIONS <input type="checkbox"/> SCREWLESS TERMINALS <input type="checkbox"/> SCREW TERMINALS <input type="checkbox"/> FLAT, QUICK CONNECT TERMINATIONS <input type="checkbox"/> other:
Terminal designation	<b>See table-2</b>
Spec. Tightening torque	N/A
Rated cross section of conductor	AWG# 20 to # 8
Type of conductor	Flexible ( Stranded copper wire )
Required preparation of the conductor	N/A
Max. Stripping length	7.5 mm MAX.
Max. Number of conductors per terminal	1

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**Constructional Data Form**

**TYPE NOMENCLATURE:**

**Connector: Table-1**

POS	Row	Receptacle housing		Tab housing		Tab header		
		Normal type	Dyna-Clamp Kit	Panel mount type	Free-hanging type	Vertical type	Horizontal type	D5200alpha
2	Single	<input type="checkbox"/> -179958- <input type="checkbox"/>	-	<input type="checkbox"/> -353047- <input type="checkbox"/>	<input type="checkbox"/> -353046- <input type="checkbox"/>	<input type="checkbox"/> -353080- <input type="checkbox"/>	<input type="checkbox"/> -353079- <input type="checkbox"/>	-
3	Single	<input type="checkbox"/> -179958- <input type="checkbox"/>	1473668- <input type="checkbox"/>	<input type="checkbox"/> -353047- <input type="checkbox"/>	<input type="checkbox"/> -353046- <input type="checkbox"/>	<input type="checkbox"/> -353082- <input type="checkbox"/>	<input type="checkbox"/> -353081- <input type="checkbox"/>	-
4	Single	<input type="checkbox"/> -179958- <input type="checkbox"/>	-	-	-	<input type="checkbox"/> -917542- <input type="checkbox"/>	<input type="checkbox"/> -917541- <input type="checkbox"/>	-
	Double	<input type="checkbox"/> -917807- <input type="checkbox"/> <input type="checkbox"/> -2069333- <input type="checkbox"/>	1971239- <input type="checkbox"/> -	<input type="checkbox"/> -917809- <input type="checkbox"/> <input type="checkbox"/> -2069334- <input type="checkbox"/>	<input type="checkbox"/> -917808- <input type="checkbox"/> -	<input type="checkbox"/> -1981458- <input type="checkbox"/> -	<input type="checkbox"/> -1123309- <input type="checkbox"/> -	<input type="checkbox"/> -1318983- <input type="checkbox"/> <input type="checkbox"/> -2134124- <input type="checkbox"/>
6	Single	<input type="checkbox"/> -179958- <input type="checkbox"/>	-	-	-	<input type="checkbox"/> -179960- <input type="checkbox"/>	<input type="checkbox"/> -179959- <input type="checkbox"/>	-
	Double	<input type="checkbox"/> -917807- <input type="checkbox"/>	-	<input type="checkbox"/> -917809- <input type="checkbox"/>	<input type="checkbox"/> -917808- <input type="checkbox"/>	<input type="checkbox"/> -2326092- <input type="checkbox"/>	-	-
8	Double	-	-	-	-	-	<input type="checkbox"/> -1123829- <input type="checkbox"/>	-

Note: The suffixes -0 to -9 and prefixes 0- to 9- denote different body color, Keying, number of positions, plating type and other variations.

**Terminal designation: Table-2**

Contact	Receptacle Contact		Tab Contact			
Wire range	Normal		Normal		Sequential*	
AWG#	Strip form	Loose form	Strip form	Loose form	Strip form	Loose form
20-16	1318985- <input type="checkbox"/>	1318986- <input type="checkbox"/>	-	-	-	-
16-14	179955- <input type="checkbox"/>	316040- <input type="checkbox"/>	917802- <input type="checkbox"/>	917804- <input type="checkbox"/>	84696- <input type="checkbox"/>	2013594- <input type="checkbox"/>
12-10	179956- <input type="checkbox"/>	316041- <input type="checkbox"/>	917803- <input type="checkbox"/>	917805- <input type="checkbox"/>	84695- <input type="checkbox"/>	2013593- <input type="checkbox"/>
8	1318696- <input type="checkbox"/>	1318697- <input type="checkbox"/>	1981690- <input type="checkbox"/>	1981691- <input type="checkbox"/>	2316819- <input type="checkbox"/>	2316820- <input type="checkbox"/>
	-	-	-	1747443- <input type="checkbox"/>	2174021- <input type="checkbox"/>	2174022- <input type="checkbox"/>

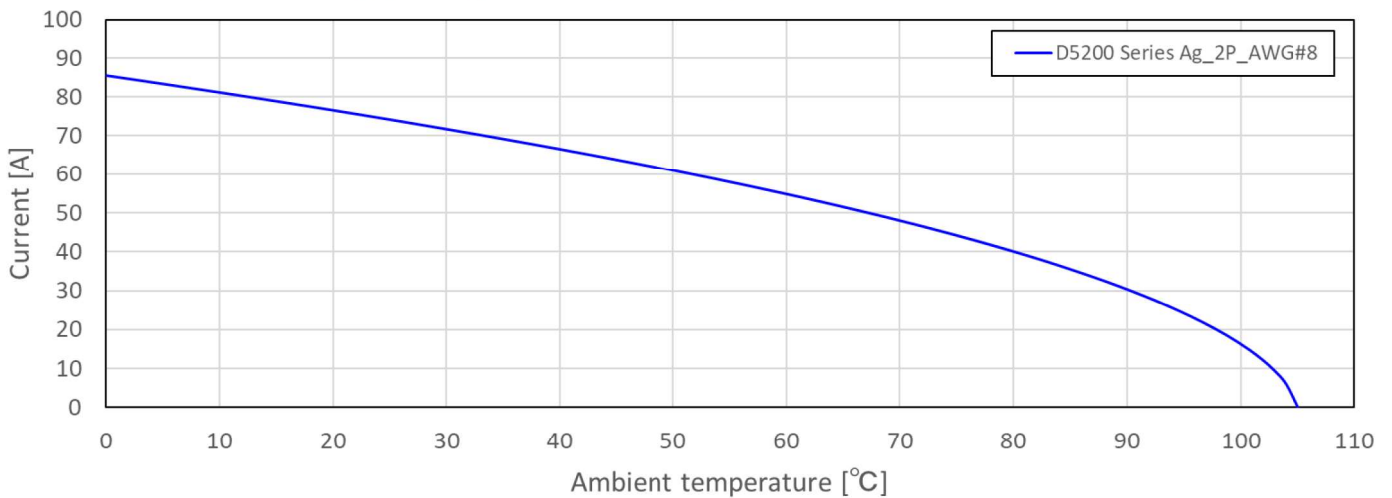
Note: 1. Copper alloy with plating and the suffixes denote plating type, (e.g. -2: 0.38 µm Au, -3: 0.76 µm Au, -6: Ag)  
 2. The mark\* denotes an elongated tab contact.

**Rated current: Table-3**

POS	2	3	4	6	8
Rated current	66A Max	62A Max	60A Max	52A Max	43A Max

**APPENDIX**

**Derating curve (D5200 2P Ag plating, AWG#8, derating factor: 0.8)**



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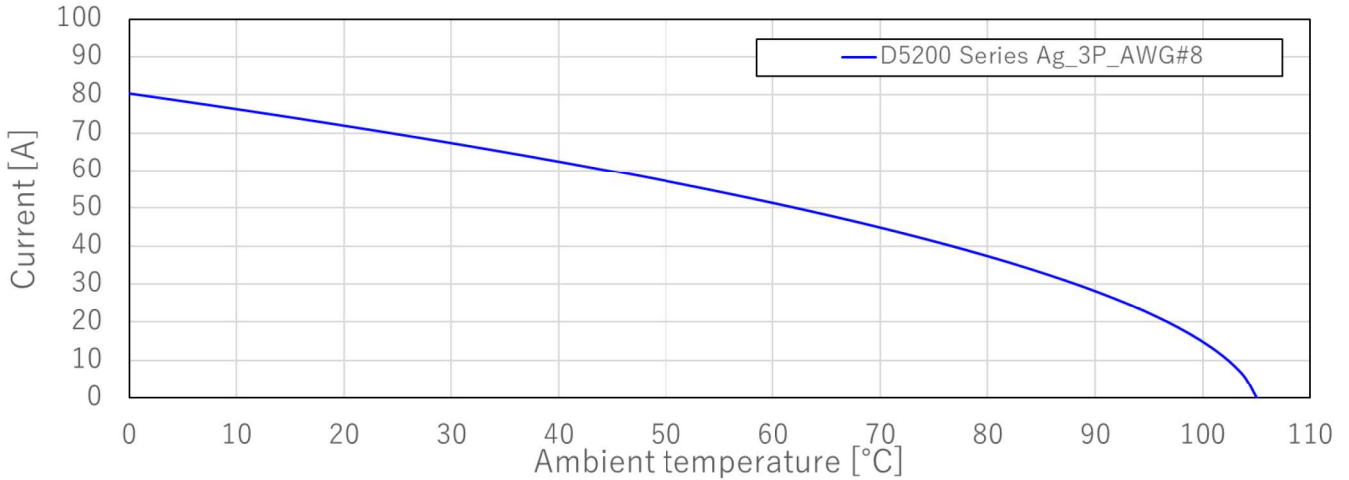
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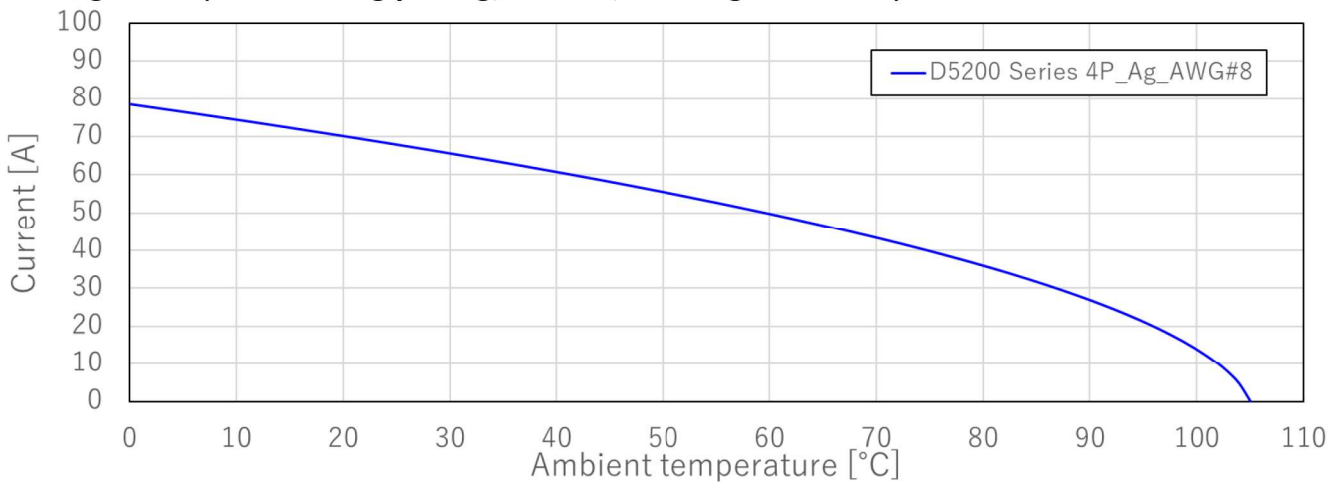
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**Constructional Data Form**

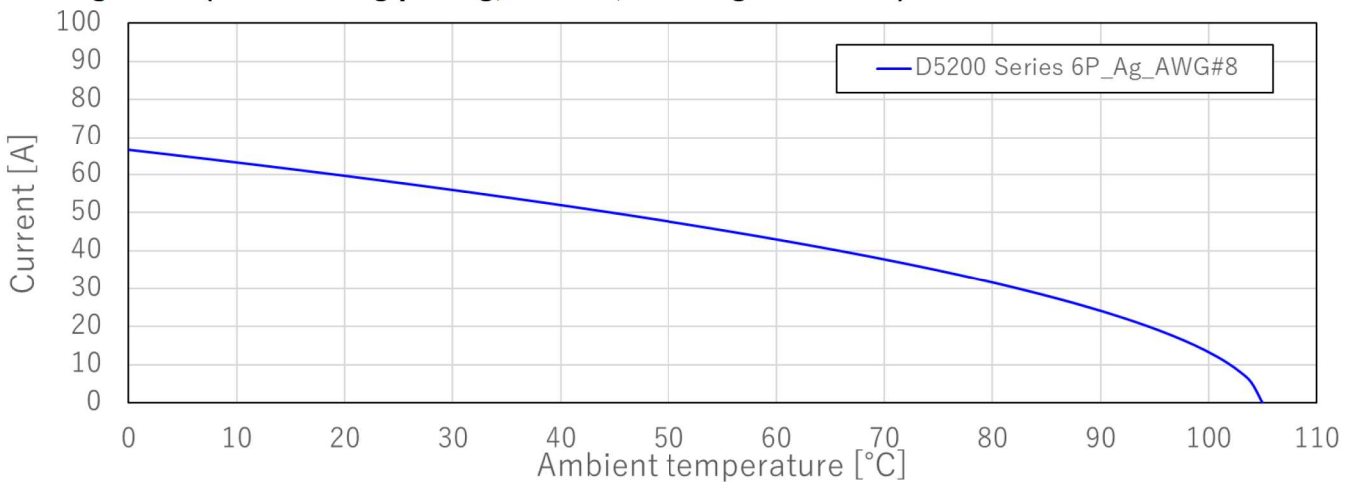
**Derating curve (D5200 3P Ag plating, AWG#8, derating factor: 0.8)**



**Derating curve (D5200 4P Ag plating, AWG#8, derating factor: 0.8)**



**Derating curve (D5200 6P Ag plating, AWG#8, derating factor: 0.8)**



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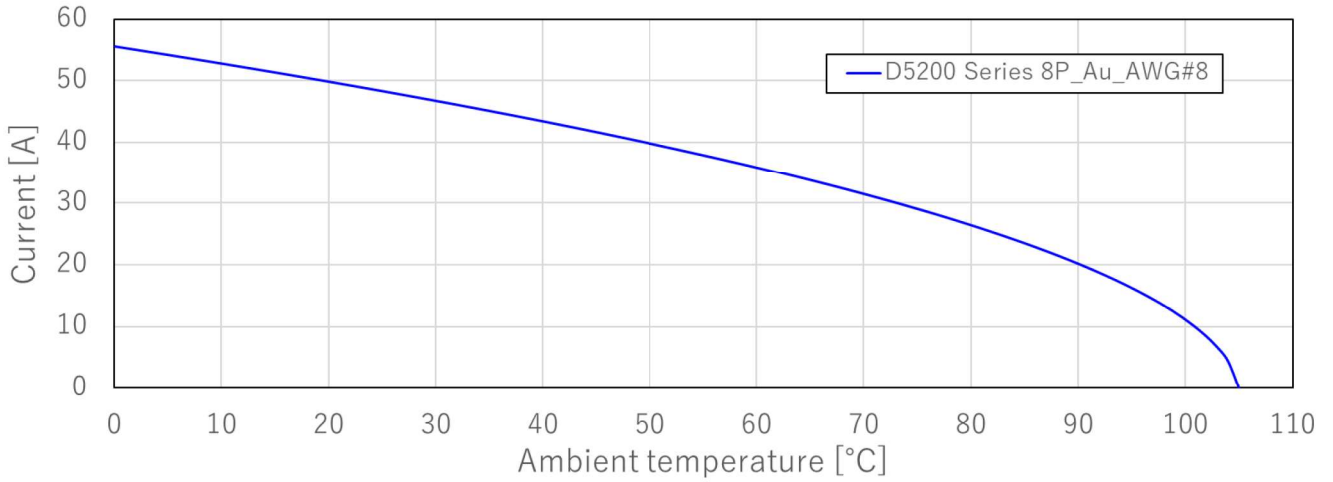
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**Constructional Data Form**

**Derating curve (D5200 8P Au plating, AWG#8, derating factor: 0.8)**



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