

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50418440

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
APP-160621

Unser Zeichen *Our Reference*
ZJL-MAS-50047433 001

Ausstellungsdatum
25.10.2018

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*

Tyco Electronics Japan G.K.
Kakegawa Distribution Center (JPDC)
102 Shobugaike,
Kakegawa-shi, Shizuoka
436-0040 Japan

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 Connector without breaking capacity

Type Designation:	Metal Case Multiple Connectors	
	Jack case assy type 1939840-1+1939839-1	5
	Plug case assy type 1939847-1+1939850-1	1
	Jack case assy type 1939840-1+1981551-1	1
	Plug case assy type 1981560-1+1981556-1	1
	equipped with dominated contacts.	
Number of poles:	Max. 24	
Electrical Ratings:	0.5A - 2A (AC 150V, OVC III/2.5kVpeak or AC 160V, OVC II/2.5kVpeak)	
Applicable conductor size:	AWG 30 - AWG 22	
Limit Temperature:	-30°C to +105°C	
Max. Ambient Temperature at rated current:	+75°C	
Pollution Degree:	2	
Classification:	COC	
IP-Code:	IPXXB (mated) or IP20(simulation of final use)	
Remark:	The connector plug could be provided with cable gland with/without fitting insulation bushing according to the real cable size used.	

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.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety



Zertifizierungsstelle

Vilmos Sztaroveczki

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50418440

Blatt *Sheet*
0002

Ihr Zeichen *Client Reference*
APP-160621

Unser Zeichen *Our Reference*
ZJL-MAS-50047433 001

Ausstellungsdatum
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Geprüft nach *Tested acc. to*

EN 61984:2009
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**Zertifiziertes Produkt (Geräteidentifikation)
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*License Fee - Unit***

Connector Connector without breaking capacity, as page 0001

Addition

Type Designation:	Metal Case Multiple Connectors	
	Jack case assy type 1939840-1+1981133-1	1
	Plug case assy type 1939847-1+1981135-1	1
	Jack case assy type 1939840-1+1981945-1	1
	Plug case assy type 1981560-1+1981947-1	1
	equipped with dominated contacts.	
Number of poles:	Max. 14 + 1	
Electrical Ratings:	0.8A - 8A (AC 250V, OVC II/2.5kVpeak or AC 150V OVC III/2.5kVpeak)	
Applicable conductor size:	AWG 30 - AWG 16	
Limit Temperature:	-30°C to +105°C	
Max. Ambient Temperature at rated current:	+75°C	
Pollution Degree:	2 / 3 (AC 150V)	
Classification:	COC	
IP-Code:	IPXXB (mated) or IP20(simulation of final use)	
Remark:	The connector plug could be provided with cable gland with/without fitting insulation bushing according to the real cable size used.	

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.



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Vilmos Sztaroveczki

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Fax: +49 221 806-3935 http://www.tuv.com/safety

Constructional Data Form for Connector

Page 1/9

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

 Factory: **Tyco Electronics Japan G.K. Kakegawa DC**
 (Full address) 102 Shobugaike, Kakegawa-shi, Shizuoka

 Type or Model Number: **Metal case Multiple Connectors:**
 24-pole connector (in pair): to be provided with maximum 24 identical contacts
 Combination 1: [Jack case(1939840-1)+tab housing(1939839-1) + tab contacts] + [plug case(1939847-1)+rece housing(1939850-1)+ rece contacts]
 Combination 2: [Jack case(1939840-1)+rece housing(1981551-1)+ rece contacts] + [plug case(1981560-1)+tab housing(1981556-1) + tab contacts]
 (14 + 1)- pole connector (in pair): to be provided with maximum 14 identical contacts and 1 bigger size for purpose of pilot or similar function.
 Combination 1: [Jack case(1939840-1)+tab housing(1981133-1)+tab contacts] + [plug case(1939847-1)+rece housing(1981135-1) + rece contacts]
 Combination 2: [Jack case(1939840-1)+rece housing(1981945-1)+rece contacts] + [plug case(1981560-1)+tab housing(1981947-1)+ tab contacts]

 Kind of device: **Metal case Multiple Connectors**

Specifications	
Type designation	See Nomenclature
Contact material	Copper alloy Ni plated Au plated
Number of poles	Max. 24 poles (2mm Pitch) Max. 14 poles + 1 pole (2.5mm Pitch)
Rated voltage	AC150V, AC160V AC150V, AC250V
Rated current	See table 1
Mechanical endurance	50 times
Classification	<input type="checkbox"/> CBC <input checked="" type="checkbox"/> COC (Non CBC) <input type="checkbox"/> other
Upper limit temperature	+105°C
Lower limit temperature	-30°C
Maximum ambient temperature at rated current	75°C
IP Code	- IP XXB _ finger protection of mated connectors - IP20, simulation of the final use and matted case, the free connectors are also provided with dominated cable glands with/without insulation sleeving to hold the suitable cable size tightly. Note: The free connector could be provided with dominated cable gland with/without fitting of insulation sleeving according to the actual cable size., it is expecting to be tested according to the real cable size and product standard on-site.

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 18 October
 2018

(Date)



(Signature)

Kawasaki

(Place)

18 October 2018

(Date)

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(Stamp and Signature of Applicant)



Constructional Data Form for Connector

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Metal case Multiple Connectors:

24-pole connector (in pair): to be provided with maximum 24 identical contacts

Combination 1: [Jack case(1939840-1)+tab housing(1939839-1) + tab contacts] + [plug case(1939847-1)+rece housing(1939850-1)+ rece contacts]

Combination 2: [Jack case(1939840-1)+rece housing(1981551-1)+ rece contacts] +[plug case(1981560-1)+tab housing(1981556-1) + tab contacts]

Classification of Connectors <input checked="" type="checkbox"/> COC <input type="checkbox"/> CBC						
Type of connector	Style	Enclosure		Cable Clamp (see note)		Function
Jack case 1939840-1	<input type="checkbox"/> Free Connector <input checked="" type="checkbox"/> Fixed Connector	<input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Un-enclosed	<input checked="" type="checkbox"/> Hand Back Safety mated <input checked="" type="checkbox"/> Hand Back Safety unmated <input checked="" type="checkbox"/> Finger Safety mated <input type="checkbox"/> Finger Safety unmated <input type="checkbox"/> IP67 mated <input checked="" type="checkbox"/> IP20 mated	<input type="checkbox"/> with additional insulation bushing <input type="checkbox"/> without	Applicable Cable Size Range: N/A	<input type="checkbox"/> with PE <input checked="" type="checkbox"/> without PE
		*1) Protection class mated: <input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> N/A	<input type="checkbox"/> with interlock <input checked="" type="checkbox"/> without interlock			
Plug case 1939847-1 1981560-1	<input checked="" type="checkbox"/> Free Connector <input type="checkbox"/> Fixed Connector	<input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Un-enclosed	<input checked="" type="checkbox"/> Hand Back Safety mated <input checked="" type="checkbox"/> Hand Back Safety unmated <input checked="" type="checkbox"/> Finger Safety mated <input type="checkbox"/> Finger Safety unmated <input type="checkbox"/> IP67 mated <input checked="" type="checkbox"/> IP20 mated	<input type="checkbox"/> with additional insulation bushing <input type="checkbox"/> without	Applicable Cable Size Range: N/A	<input type="checkbox"/> with PE <input checked="" type="checkbox"/> without PE
		*1) Protection class mated: <input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> N/A	<input type="checkbox"/> with interlock <input checked="" type="checkbox"/> without interlock			

Remark: *1)The protection class of components is dependent upon the equipment in which they are used, these connectors are intended for class I equipment normally.

Note: The free connector could be provided with dominated cable gland with/without fitting of insulation sleeving according to the actual cable size.

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Constructional Data Form for Connector

(14 + 1)- pole connector (in pair): to be provided with maximum 14 identical contacts and 1 bigger size for purpose of pilot or similar function.

Combination 1: [Jack case(1939840-1)+tab housing(1981133-1)+tab contacts] + [plug case(1939847-1)+rece housing(1981135-1) + rece contacts]

Combination 2: [Jack case(1939840-1)+rece housing(1981945-1)+rece contacts] + [plug case(1981560-1)+tab housing(1981947-1)+ tab contacts]

Classification of Connectors <input checked="" type="checkbox"/> COC <input type="checkbox"/> CBC						
Type of connector	Style	Enclosure		Cable Clamp (see note)		Function
Jack case 1939840-1	<input type="checkbox"/> Free Connector <input checked="" type="checkbox"/> Fixed Connector	<input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Un-enclosed	<input checked="" type="checkbox"/> Hand Back Safety mated <input checked="" type="checkbox"/> Hand Back Safety unmated <input checked="" type="checkbox"/> Finger Safety mated <input type="checkbox"/> Finger Safety unmated <input type="checkbox"/> IP67 mated <input checked="" type="checkbox"/> IP20 mated	<input type="checkbox"/> with additional insulation bushing <input type="checkbox"/> without	Applicable Cable Size Range: N/A	<input type="checkbox"/> with PE <input checked="" type="checkbox"/> without PE
		*1) Protection class mated: <input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> N/A	<input type="checkbox"/> with interlock <input checked="" type="checkbox"/> without interlock			
Plug case 1939847-1 1981560-1	<input checked="" type="checkbox"/> Free Connector <input type="checkbox"/> Fixed Connector	<input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Un-enclosed	<input checked="" type="checkbox"/> Hand Back Safety mated <input checked="" type="checkbox"/> Hand Back Safety unmated <input checked="" type="checkbox"/> Finger Safety mated <input type="checkbox"/> Finger Safety unmated <input type="checkbox"/> IP67 mated <input checked="" type="checkbox"/> IP20 mated	<input type="checkbox"/> with additional insulation bushing <input type="checkbox"/> without	Applicable Cable Size Range: N/A	<input type="checkbox"/> with PE <input checked="" type="checkbox"/> without PE
		*1) Protection class mated: <input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> N/A	<input type="checkbox"/> with interlock <input checked="" type="checkbox"/> without interlock			

Remark: *1)The protection class of components is dependent upon the equipment in which they are used, these connectors are intended for class I equipment normally.

Note: The free connector could be provided with dominated cable gland with/without fitting of insulation sleeving according to the actual cable size.

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Constructional Data Form for Connector

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Insulation Coordination	
Product	24 poles (2mm Pitch)
Overvoltage category	III II
Pollution degree	2
Insulation voltage	AC150V / 2.5kVpk AC160V / 2.5kVpk
Test voltages	Live Contact - Live Contact: 1390 Vrms Live Contact - Accessible Area: 2210 Vrms
Minimum creepage distances (mated)	Live Contact - Live Contact: 1.8mm Live Contact - Accessible Area: 6.1mm
Minimum clearance distances (mated)	Live Contact - Live Contact: 1.8 mm Live Contact - Accessible Area: 6.1mm
Insulation system (IEC 60664-1)	Live Contact - Live Contact : <input checked="" type="checkbox"/> basic <input type="checkbox"/> reinforced <input type="checkbox"/> NA Live Contact - Accessible Area : <input type="checkbox"/> basic <input checked="" type="checkbox"/> reinforced <input type="checkbox"/> NA

Insulation Coordination			
Product	14 +1 poles (2.5mm Pitch)		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Insulation voltage	AC150V / 2.5kVpk	AC150V / 2.5kVpk	AC250V / 2.5kVpk
Test voltages	Live Contact - Live Contact: 1390 Vrms Live Contact - Accessible Area: 2210 Vrms		
Minimum creepage distances (mated)	Live Contact - Live Contact: 2.5mm Live Contact - Accessible Area: 9.4mm		
Minimum clearance distances (mated)	Live Contact - Live Contact: 1.8mm Live Contact - Accessible Area: 8.1mm		
Insulation system (IEC 60664-1)	Live Contact - Live Contact : <input checked="" type="checkbox"/> basic <input type="checkbox"/> reinforced <input type="checkbox"/> NA Live Contact - Accessible Area : <input type="checkbox"/> basic <input checked="" type="checkbox"/> reinforced <input type="checkbox"/> NA		

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Constructional Data Form for Connector

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Specifications of Terminals / Connection <input type="checkbox"/> Rewirable <input checked="" type="checkbox"/> Non-rewirable	
Type of terminals	<input checked="" type="checkbox"/> Crimping terminal
Terminal designation	24 poles : A, B, C, D, 1, 2, 3, 4, 5, 6 14+1 poles : A, B, C, D, 1, 2, 3, 4
Spec. Tightening torque	N/A
Rated cross section of conductor	1827586-2(1827569-2), 1903115-2(1903111-2): (AWG#30, 28) 1827587-2(1827570-2), 1903116-2(1903112-2): (AWG#28, 26, 24, 22) 1827588-2(1827571-2), 1903117-2(1903113-2): (AWG#28, 26, 24, 22) 1827589-2(1827572-2), 1903118-2(1903114-2): (AWG#22, 20, 18) 175287-2(175284-2), 175216-2(175194-2): (AWG#28, 26, 24) 175288-2(175285-2), 175217-2(175195-2): (AWG#24, 22, 20) 175289-2(175286-2), 175218-2(175196-2): (AWG#20, 18, 16)
Type of conductor	Flexible
Required preparation of the conductor	Original crimping tool
Max. Stripping length	4.8mm
Max. Number of conductors per terminal	1

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Constructional Data Form for Connector
Table 1 Rated current of 24-pole type

Housing	Applicable contact	Rated current	Applicable cable
Rec Housing 199850-1, 1981551-1	1827586-2(1827569-2)	0.5A	AWG30
	1827586-2(1827569-2)	0.8A	AWG28
	1827587-2(1827570-2)	0.8A	AWG28
	1827587-2(1827570-2)	1A	AWG26
	1827587-2(1827570-2)	1.5A	AWG24
	1827587-2(1827570-2)	2A	AWG22
Tab housing 1981556-1, 1939839-1	1903115-2(1903111-2)	0.5A	AWG30
	1903115-2(1903111-2)	0.8A	AWG28
	1903116-2(1903112-2)	0.8A	AWG28
	1903116-2(1903112-2)	1A	AWG26
	1903116-2(1903112-2)	1.5A	AWG24
	1903116-2(1903112-2)	2A	AWG22

Current rating of (14 poles + 1 pole) type, fitted with D-1000 contacts

Housing	Applicable contact	Rated current	Applicable cable
Rec Housing 1981135-1, 1981945-1	1827586-2(1827569-2)	0.8A	AWG30
	1827586-2(1827569-2)	1A	AWG28
	1827587-2(1827570-2)	1A	AWG28
	1827587-2(1827570-2)	1.5A	AWG26
	1827587-2(1827570-2)	2A	AWG24
	1827587-2(1827570-2)	2.5A	AWG22
	1827588-2(1827571-2)	1A	AWG28
	1827588-2(1827571-2)	1.5A	AWG26
	1827588-2(1827571-2)	2A	AWG24
	1827588-2(1827571-2)	2.5A	AWG22
	1827589-2(1827572-2)	2.5A	AWG22
	1827589-2(1827572-2)	2.7A	AWG20
	1827589-2(1827572-2)	3.5A	AWG18
Tab housing 1981947-1, 1981133-1	1903115-2(1903111-2)	0.8A	AWG30
	1903115-2(1903111-2)	1A	AWG28
	1903116-2(1903112-2)	1A	AWG28
	1903116-2(1903112-2)	1.5A	AWG26
	1903116-2(1903112-2)	2A	AWG24
	1903116-2(1903112-2)	2.5A	AWG22
	1903117-2(1903113-2)	1A	AWG28
	1903117-2(1903113-2)	1.5A	AWG26
	1903117-2(1903113-2)	2A	AWG24
	1903117-2(1903113-2)	2.5A	AWG22
	1903118-2(1903114-2)	2.5A	AWG22
	1903118-2(1903114-2)	2.7A	AWG20
	1903118-2(1903114-2)	3.5A	AWG18

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Constructional Data Form for Connector
Current rating of (14 poles + 1 pole) type, fitted with type D-3000 contacts

Housing	Applicable contact	Rated current	Applicable cable
Rec Housing 1981135-1, 1981945-1	175216-2(175194-2)	1A	AWG28
	175216-2(175194-2)	1.5A	AWG26
	175216-2(175194-2)	2A	AWG24
	175217-2(175195-2)	2A	AWG24
	175217-2(175195-2)	2.5A	AWG22
	175217-2(175195-2)	2.7A	AWG20
	175218-2(175196-2)	2.7A	AWG20
	175218-2(175196-2)	3.5A	AWG18
Tab housing 1981947-1, 1981133-1	175218-2(175196-2)	8A	AWG16
	175287-2(175284-2)	1A	AWG28
	175287-2(175284-2)	1.5A	AWG26
	175287-2(175284-2)	2A	AWG24
	175288-2(175285-2)	2A	AWG24
	175288-2(175285-2)	2.5A	AWG22
	175288-2(175285-2)	2.7A	AWG20
	175289-2(175286-2)	2.7A	AWG20
175289-2(175286-2)	3.5A	AWG18	
175289-2(175286-2)	8A	AWG16	

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Constructional Data Form for Connector

TYPE NOMENCLATURE:

<24poles>

Pull case 1939847-1	applicable housing Rece housing 1939850-1	Applicable contact D-1000 rece contact (※)																												
		<table border="1"> <thead> <tr> <th>適用電線規格</th> <th>絶縁材料</th> <th>ワイヤ</th> <th>コネクタの配置</th> </tr> <tr> <th>AWG</th> <th>mm²</th> <th>外径 mm</th> <th>リセ・コンタクト リセ・コンタクト 適用寸法</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>0.00</td> <td>0.8-1.2</td> <td>連続型 1827509-2</td> </tr> <tr> <td>28</td> <td>0.00</td> <td></td> <td>バネ 1827509-2</td> </tr> <tr> <td>26</td> <td>0.08</td> <td></td> <td>連続型 1827570-2</td> </tr> <tr> <td>24</td> <td>0.20</td> <td>1.08-1.6</td> <td>バネ 1827587-2</td> </tr> <tr> <td>22</td> <td>0.38</td> <td></td> <td></td> </tr> </tbody> </table> 	適用電線規格	絶縁材料	ワイヤ	コネクタの配置	AWG	mm ²	外径 mm	リセ・コンタクト リセ・コンタクト 適用寸法	30	0.00	0.8-1.2	連続型 1827509-2	28	0.00		バネ 1827509-2	26	0.08		連続型 1827570-2	24	0.20	1.08-1.6	バネ 1827587-2	22	0.38		
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applicable housing tab housing 1939839-1	Applicable contact D-1000 tab contact (※)	Jack case 1939840-1																												
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TÜV Rheinland

18 October
2018

(Date)

In Sasuda

(Signature)

Kawasaki

(Place)

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Tyco Electronics Japan G.K.

(Stamp and Signature of Applicant)

[Handwritten Signature]

Constructional Data Form for Connector

<14+1種>

Plug case 120847-1	Recept housing 120110-1	Applicable contact							
		D-2000 reze contact (黒)		D-3000 reze contact					
		適用電圧範囲	接触面積	コネクタの位置	適用電圧範囲	接触面積	コネクタの位置		
		AWG	mm ²	mm	mm	AWG	mm ²	mm	
		20	0.50	08-12	S	適用材	1827009-2	適用材	175104-2
		22	0.35	08-12	S	適用材	1827009-2	適用材	175216-2
		24	0.25	08-12	M	適用材	1827070-2	適用材	175104-2
		24	0.20	08-12	M	適用材	1827087-2	適用材	175104-2
		22	0.35	08-12	S	適用材	1827070-2	適用材	175217-2
		20	0.50	08-12	S	適用材	1827009-2	適用材	175104-2
		20	0.34	14-22	SL	適用材	1827070-2	適用材	175218-2
		18	0.08	14-22	SL	適用材	1827089-2	適用材	175218-2

Lab housing 120112-1	Applicable contact				ギヤケーシング 220846-1			
	D-2000 lab contact (黒)		D-3000 lab contact					
	適用電圧範囲	接触面積	コネクタの位置	適用電圧範囲	接触面積	コネクタの位置		
	AWG	mm ²	mm	mm	AWG	mm ²	mm	
	20	0.50	08-12	S	適用材	1827009-2	適用材	175204-2
	22	0.35	08-12	S	適用材	1827009-2	適用材	175207-2
	24	0.25	08-12	M	適用材	1827070-2	適用材	175204-2
	24	0.20	08-12	M	適用材	1827087-2	適用材	175204-2
	22	0.35	08-12	S	適用材	1827070-2	適用材	175207-2
	20	0.50	08-12	S	適用材	1827009-2	適用材	175204-2
	20	0.34	14-22	SL	適用材	1827070-2	適用材	175204-2
	18	0.08	14-22	SL	適用材	1827089-2	適用材	175204-2

TÜV Rheinland
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