



Constructional Data Form

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

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

Type or Model Number: D-2600 Hybrid series Dynamic Connectors
Kind of device: Electrical Connector

| Specifications | |
|---|--|
| Type designation | D-2600 Hybrid series Dynamic Connectors |
| Contact material | Copper alloy (Tin or Gold plating) |
| Number of poles | 48 Poles Max. |
| Rated voltage | Overvoltage category II : 125V AC Overvoltage category III : 100V AC |
| Rated current | Signal line: 3.2A max Power line: 7.5A max |
| Mechanical endurance | 50 cycles |
| 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 |
| Maximum ambient temperature at rated current | 75°C |

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

| | | |
|---|---|--|
| <p>TÜV Rheinland</p> <p><i>2013</i> <i>July 26</i> (Date)</p> <p><i>[Signature]</i> (Signature)</p> | <p><u>Kawasaki</u> (Place)</p> <p>Tyco Electronics Japan G.K. (Stamp and Signature of Applicant)</p> | <p><u>2013.07.26</u> (Date)</p> <p><u>G. Ezawa</u></p> |
|---|---|--|



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| Insulation Coordination | |
|---|--|
| Overvoltage category | II, III |
| Pollution degree | 2 |
| Test voltages | Contact – contact : 1500V AC Shell – contact : 1500V AC |
| Minimum creepage distances | Contact – contact : 1.6 mm Shell – contact : 3.2 mm |
| Minimum clearance distances | Contact – contact : 1.6 mm Shell – contact : 3.2 mm |
| 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 |
| Under the following conditions: U _i = 250V OV-cat. IIs Material gr.111 Poll.deg. 2 | Note: the enclosure does not provide any level of insulation. Sufficient insulation must be provided by installation. |

| Specifications (terminals) | |
|--|---|
| Type of terminals | <input type="checkbox"/> WRAPPED CONNECTIONS <input type="checkbox"/> CLIP CONNECTIONS <input type="checkbox"/> INSULATION DISPLACEMENT CONNECTIONS <input type="checkbox"/> SCREWLESS TERMINALS <input type="checkbox"/> FLAT, QUICK CONNECT TERMINATIONS <input checked="" type="checkbox"/> SOLDER TERMINALS <input checked="" type="checkbox"/> CRIMPED CONNECTIONS <input type="checkbox"/> PRESS-IN CONNECTIONS <input type="checkbox"/> SCREW TERMINALS <input type="checkbox"/> other: |
| Terminal designation | N/A |
| Spec. Tightening torque | N/A |
| Rated cross section of conductor | N/A |
| Type of conductor | Flexible |
| Required preparation of the conductor | N/A |
| Max. Stripping length | 5.3 mm |
| Max. Number of conductors per terminal | 1 |

TÜV Rheinland
2013
July 26 (Date)
R. Masuda (Signature)

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Rated current; Table-1

| Signal line | | | | | |
|-------------|---------|---------|---------|---------|---------|
| AWG# 18 | AWG# 20 | AWG# 22 | AWG# 24 | AWG# 26 | AWG# 28 |
| 3.2 | 2.8 | 2.4 | 2 | 1.6 | 1.2 |

| Power line | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|
| AWG# 14,16 | AWG# 18 | AWG# 20 | AWG# 22 | AWG# 24 | AWG# 26 | AWG# 28 |
| 7.5 | 6 | 4.8 | 4 | 3.4 | 2.8 | 2.4 |

TYPE NOMENCLATURE:

Connector (header):

Part number : 1827538-□:48 Poles. Header

Connector (receptacle):

Part number : 1827540-□:48 Poles. Receptacle

Note: The suffixes -□denote Keying type.(e.g. X, Y XX XY.YY)

Contacts:

| Wire Range | Receptacle (Signal line) | |
|------------|--------------------------|-----------|
| AWG# 18-22 | Strip Form | 1318105-1 |
| | Loose Form | 1318107-1 |
| AWG# 24-28 | Strip Form | 1318106-1 |
| | Loose Form | 1318108-1 |

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| Wire Range | Receptacle (Power line) | | |
|------------|-------------------------|---------------|--------------------|
| | Form | Standard type | High pressure type |
| AWG# 28-24 | Strip | 175194-□ | 1-175194-5 |
| | Loose | 175216-□ | 1-175216-5 |
| AWG# 24-20 | Strip | 175195-□ | 1-175195-5 |
| | Loose | 175217-□ | 1-175217-5 |
| AWG# 20-16 | Strip | 175195-□ | 1-175196-5 |
| | Loose | 175218-□ | 1-175218-5 |
| AWG#16-14 | Strip | 917484-□ | 1-917484-5 |
| | Loose | 917511-□ | 1-917511-5 |
| AWG#16-14 | Strip | 353715-□ | 1-353715-5 |
| | Loose | 353717-□ | 1-353717-5 |

Note; The suffixes -2 and -3 denote variations for gold-plated thickness.

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Kawagaki
(Place)

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(Date) Tsu Masuda
(Signature)

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(Stamp and Signature of Applicant)

G. Ezawa