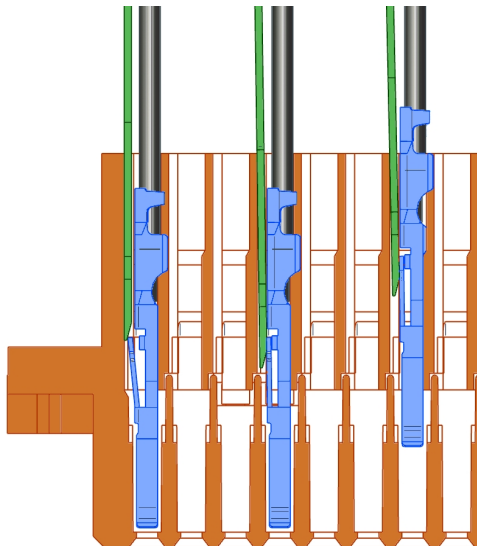
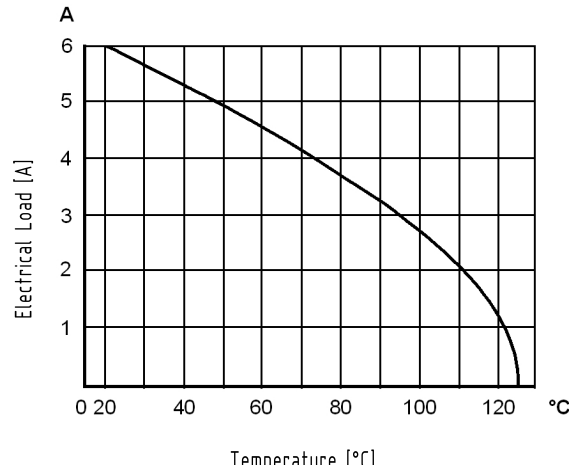


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| <div><div><div><div><div><div></div><div>HARTING</div></div></div><div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div></div></div><div>DIN power female connector - NFF</div><div><div><div>RoHS</div><div>compliant</div></div><div><div></div><div>CE</div><div>UL</div><div>US</div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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the cavities of the connector moulding in the required configuration. They snap into position and are firmly held in place. A light pull on the wire assures the correct tensile strength of the contact. When using stranded wires with a gauge below 0.37 mm<sup>2</sup> an insertion tool is necessary.</div><div>Removing the crimp contacts</div><div>The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted as necessary. The drawing demonstrates the crimp removal procedure (max. 5x).</div></div> <div></div> |                                                    |  |                          |                 |                 |                      |                 |  |                                    |                           |         |                    |                     |  |              |                       |  |                      |  |                    |             |  |  |  |                       |             |  |  |  |                 |                                   |  |  |  |                   |                  |  |  |  |                        |       |  |  |  |           |             |  |  |  |          |             |  |  |  |                                |                 |  |                 |  |  |                 |  |                 |  |               |                              |  |                   |  |  |                              |  |                   |  |                  |     |  |  |  |          |     |  |  |  |              |    |  |  |  |
| <div>General information</div> <table><tr><td>Design</td><td colspan="2">IEC 60603-2</td><td colspan="2">types: F female</td></tr><tr><td>No. of contacts</td><td colspan="2">max. 48</td><td colspan="2"></td></tr><tr><td>Contact spacing</td><td colspan="2">5,08 mm</td><td colspan="2">3,81mm between rows</td></tr><tr><td>Test voltage</td><td colspan="2">1550V contact/contact</td><td colspan="2">2500V contact/ground</td></tr><tr><td>Contact resistance</td><td colspan="2">max. 15mOhm</td><td colspan="2"></td></tr><tr><td>Insulation resistance</td><td colspan="2">min. 10"0hm</td><td colspan="2"></td></tr><tr><td>Working current</td><td colspan="2">6A at 20°C (see derating diagram)</td><td colspan="2"></td></tr><tr><td>Temperature range</td><td colspan="2">-55°C ... +125°C</td><td colspan="2"></td></tr><tr><td>Termination technology</td><td colspan="2">crimp</td><td colspan="2"></td></tr><tr><td>Clearance</td><td colspan="2">min. 1,6 mm</td><td colspan="2"></td></tr><tr><td>Creepage</td><td colspan="2">min. 3,0 mm</td><td colspan="2"></td></tr><tr><td>Insertion and withdrawal force</td><td colspan="2">24pole max. 37N</td><td colspan="2">32pole max. 50N</td></tr><tr><td></td><td colspan="2">45pole max. 70N</td><td colspan="2">48pole max. 75N</td></tr><tr><td>Mating cycles</td><td colspan="2">- PL1 acc. to IEC 60603-2 =&gt;</td><td colspan="2">500 mating cycles</td></tr><tr><td></td><td colspan="2">- PL2 acc. to IEC 60603-2 =&gt;</td><td colspan="2">400 mating cycles</td></tr><tr><td>RoHS - compliant</td><td colspan="2">Yes</td><td colspan="2"></td></tr><tr><td>Leadfree</td><td colspan="2">Yes</td><td colspan="2"></td></tr><tr><td>Hot plugging</td><td colspan="2">No</td><td colspan="2"></td></tr></table>                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IEC 60603-2                                        |  | types: F female          |                 | No. of contacts | max. 48              |                 |  |                                    | Contact spacing           | 5,08 mm |                    | 3,81mm between rows |  | Test voltage | 1550V contact/contact |  | 2500V contact/ground |  | Contact resistance | max. 15mOhm |  |  |  | Insulation resistance | min. 10"0hm |  |  |  | Working current | 6A at 20°C (see derating diagram) |  |  |  | Temperature range | -55°C ... +125°C |  |  |  | Termination technology | crimp |  |  |  | Clearance | min. 1,6 mm |  |  |  | Creepage | min. 3,0 mm |  |  |  | Insertion and withdrawal force | 24pole max. 37N |  | 32pole max. 50N |  |  | 45pole max. 70N |  | 48pole max. 75N |  | Mating cycles | - PL1 acc. to IEC 60603-2 => |  | 500 mating cycles |  |  | - PL2 acc. to IEC 60603-2 => |  | 400 mating cycles |  | RoHS - compliant | Yes |  |  |  | Leadfree | Yes |  |  |  | Hot plugging | No |  |  |  |
| Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| No. of contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Contact spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Test voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Contact resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Insulation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Working current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Temperature range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| <div>Insulator material</div> <table><tr><td>Material</td><td colspan="2">PC (thermoplastics, glass fiber reinforcement 20%)</td></tr><tr><td>Colour</td><td colspan="2">RAL 7032 (grey)</td></tr><tr><td>UL classification</td><td colspan="2">UL 94-V0</td></tr><tr><td>Material group acc. to IEC 60664-1</td><td colspan="2">II (175 ≤ CTI &lt; 400)</td></tr><tr><td>NFF classification</td><td colspan="2">I2, F1</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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 | Material group acc. to IEC 60664-1 | II (175 ≤ CTI < 400)      |         | NFF classification | I2, F1              |  |              |                       |  |                      |  |                    |             |  |  |  |                       |             |  |  |  |                 |                                   |  |  |  |                   |                  |  |  |  |                        |       |  |  |  |           |             |  |  |  |          |             |  |  |  |                                |                 |  |                 |  |  |                 |  |                 |  |               |                              |  |                   |  |  |                              |  |                   |  |                  |     |  |  |  |          |     |  |  |  |              |    |  |  |  |
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| Material group acc. to IEC 60664-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| NFF classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| <div>Contact material</div> <table><tr><td>Contact material</td><td colspan="2">Copper alloy</td></tr><tr><td>Plating termination zone</td><td colspan="2">Ni</td></tr><tr><td>Plating contact zone</td><td colspan="2">PL1: Au over Ni</td></tr><tr><td></td><td colspan="2">PL2: Au over PdNi over Ni</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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 |                                    | PL2: Au over PdNi over Ni |         |                    |                     |  |              |                       |  |                      |  |                    |             |  |  |  |                       |             |  |  |  |                 |                                   |  |  |  |                   |                  |  |  |  |                        |       |  |  |  |           |             |  |  |  |          |             |  |  |  |                                |                 |  |                 |  |  |                 |  |                 |  |               |                              |  |                   |  |  |                              |  |                   |  |                  |     |  |  |  |          |     |  |  |  |              |    |  |  |  |
| Contact material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Plating termination zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Plating contact zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| <div>Derating diagram acc. to IEC 60512-5 (Current carrying capacity)</div> <div><div><div>The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.</div><div>Control and test procedures according to DIN IEC 60512-5</div></div><div><div><div><div>A</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div><div>Electrical Load [A]</div></div><div><div><div>20</div><div>40</div><div>60</div><div>80</div><div>100</div><div>120</div><div>°C</div></div><div>Temperature [°C]</div></div></div><div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                      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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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