Product data sheet
Miniature connectors

Technical data

General features

<table>
<thead>
<tr>
<th>Part no.</th>
<th>77 6005 0000 50008-0200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector design</td>
<td>Male cable connector</td>
</tr>
<tr>
<td>Cable length</td>
<td>2 m (Standard 2 m and 5 m. Other lengths are available on request.)</td>
</tr>
<tr>
<td>Version</td>
<td>Connector pin straight</td>
</tr>
<tr>
<td>Connector locking system</td>
<td>Bayonet</td>
</tr>
<tr>
<td>Termination</td>
<td>solder</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP67</td>
</tr>
<tr>
<td>Cross-sectional area</td>
<td>0.25 mm² / AWG 24</td>
</tr>
<tr>
<td>Temperature range from/to</td>
<td>-25 °C / 85 °C</td>
</tr>
<tr>
<td>Mechanical operation</td>
<td>&gt; 5000 Mating cycles</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>108.00</td>
</tr>
<tr>
<td>Customs tariff number</td>
<td>85369010</td>
</tr>
<tr>
<td>Country of Origin</td>
<td>DE</td>
</tr>
</tbody>
</table>

Electrical parameters

| Rated voltage | 175 V |
| Rated impulse voltage | 1750 V |
| Rated current | 2.0 A |
| Insulation resistance | ≥ 10¹⁰ Ω |
| Pollution degree | 2 |
| Overvoltage category | II |
| Insulating material group | II |
| EMC compliance | unshielded |

Material

| Housing material | PUR |
| Contact body material | PA |
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |

Date: 27.01.2024
**Product data sheet**

**Miniature connectors**

<table>
<thead>
<tr>
<th><strong>Product description</strong></th>
<th>Bayonet Male cable connector, Contacts: 8, unshielded, solder, IP67, PUR, black, 8 x 0.25 mm², 2 m</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area</strong></td>
<td>Bayonet NCC series 770</td>
</tr>
<tr>
<td><strong>Part no.</strong></td>
<td>77 6005 0000 50008-0200</td>
</tr>
</tbody>
</table>

**Locking material**
- PA

**REACH SVHC**
- CAS 7439-92-1 (Lead)

**SCIP number**
- 7803ad67-87d8-449b-a9a2-ac3fedcf3d55

**Classifications**
- ETIM 9.0
- EC002638

**Cable data - Structure of the cable**
- **Cable diameter**: 6.0 mm
- **Cross section**: 8 x 0.25 mm²
- **Sheath material**: PUR
- **Single-lead insulation**: PP
- **Single-lead structure**: 32 x 0.10 mm
- **Cable color**: black

**Cable data - Electrical properties**
- **Cable Insulation resistance**: > 1000 Ω/Km
- **Operating voltage**: 300 V
- **Conductor resistance**: 79 Ω/Km (20°C)

**Cable data - Mechanical properties**
- **Bending radius, fixed cable**: ≥ 5 x Ø
- **Bending radius, moving cable**: ≥ 10 x Ø
- **Bending cycles**: > 2 million
- **Permitted acceleration**: 5 m/s²
- **Travel distance, horizontal**: at 5 m/s² → 5 m
- **Travel distance, vertical**: at 5 m/s² → 2 m
- **Travel speed**: at 5 m horizontal path → 200 m/min

**Cable data - Thermal properties**
- **Temperature range cable in move from/to**: -25 °C / 80 °C
- **Temperature range cable fixed from/to**: -50 °C / 80 °C

**Cable data - Other features**
- **Halogen free**: yes

---

Date: 27.01.2024
General Disclaim Notice

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

The plug connector is not suitable for mains voltages Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

<table>
<thead>
<tr>
<th>Product description</th>
<th>Bayonet Male cable connector, Contacts: 8, unshielded, solder, IP67, PUR, black, 8 x 0.25 mm², 2 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>Bayonet NCC series 770</td>
</tr>
<tr>
<td>Part no.</td>
<td>77 6005 0000 50008-0200</td>
</tr>
</tbody>
</table>
DECLARATION FROM THE MANUFACTURER

For part no.: 77 6005 0000 50008-0200

27/01/2024

With regard to the


With the REACH regulation, the EU has created a uniform system for the Registration, Evaluation, Authorisation and restriction of Chemicals – or REACH. The purpose of this regulation is to ensure a high level of protection of human health and the environment.

Franz Binder GmbH & Co. Elektrische Bauelemente KG hereby confirms that it acts as a downstream user (producer of products) according to the aforementioned regulation.

We obtain all raw materials and/or preparations, from which the connectors are made, from suppliers who have already registered or pre-registered all substances, including those present in the preparations. The products supplied by the company are not subject to registration.

With regard to Article 33(1) of the REACH regulation, Franz Binder GmbH & Co. Elektrische Bauelemente KG complies with its information obligations:

An up-to-date candidate list (candidate list of substances of very high concern for authorisation, as of 14/06/2023 see: https://echa.europa.eu/de/candidate-list-table) in accordance with Article 59 (1, 10) of the regulation (EC) No 1907/2006 (REACH) has been published.

The aforementioned article includes the following substances from the up-to-date candidate list in concentrations of more than 0,1 percent by mass:

- CAS 7439-92-1 (Lead)

Please refer any questions to our Product Compliance Team:

Product-Compliance@binder-connector.de
DECLARATION FROM THE MANUFACTURER

For part no.: 77 6005 0000 50008-0200

With regard to the


Directive 2011/65/EU stipulates provisions on the restriction of the use of hazardous substances in electrical and electronic equipment (EEE) with a view to contributing to the protection of human health and the environment, including the environmentally sound recovery and disposal of EEE waste.

ANNEX II
Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials

Lead (0,1%) mercury (0,1%) cadmium (0,01%) hexavalent chromium (0,1%) polybrominated biphenyls (PBB) (0,1%) polybrominated diphenyl ethers (PBDE) (0,1%) bis(2-ethylhexyl) phthalate (DEHP) (0,1%) butyl benzyl phthalate (BBP) (0,1%) dibutyl phthalate (DBP) (0,1%) diisobutyl phthalate (DIBP) (0,1%)

Franz Binder GmbH & Co. Elektrische Bauelemente KG hereby confirms that it complies with all standard articles of the aforementioned Directive. Our products do not contain any of the specified prohibited substances above the maximum permitted concentrations specified therein, taking into account the exemptions in Annex III of Directive 2011/65/EU.

- Complies with RoHS III with exemption 6c

Please refer any questions to our Product Compliance Team:

Product-Compliance@binder-connector.de
MANUFACTURER’S DECLARATION

For part no.: 77 6005 0000 50008-0200 27/01/2024

with regard to

Declaration of compliance with China RoHS – Components

We herewith declare the compliance of this product with the Chinese marking requirements. This product can be recycled and used safely during its environmentally friendly use period of 50 years. These articles will be sold as components only for manufacturing. According to the Electronic Industry Standard SJ/T 11364-2014 it needs not to be marked with Environmentally Friendly Use Period (EFUP) label. This product should be recycled after its environmental protection use period has expired because it may contain substances or elements as shown in the following table:

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Hazardous Substance</th>
<th>Lead (Pb)</th>
<th>Mercury (Hg)</th>
<th>Cadmium (Cd)</th>
<th>Hexavalent Chromium (Cr(VI))</th>
<th>Polybrominated biphenyls (PBB)</th>
<th>Polybrominated diphenyl ethers (PBDE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connectors</td>
<td></td>
<td>X</td>
<td>O</td>
<td>O</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

This table is prepared in accordance with the provisions of SJ/T 11364.

O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572

X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572

The table shows where these substances may be found in this Electrical and Electronic Product.

Please refer any questions to our Product Compliance Team:

Product-Compliance@binder-connector.de