

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [1205010002](#)  
**Status:** **Active**  
**Overview:** Brad M12 Power Connector System  
**Description:** Brad M12 Power Double-Ended Cordset, 4 Poles, Female (90°) to Male (Straight), F-Coded, 14 AWG, TC-ER (K18) Cable, 1.0m (3.78') Length

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-120500-001-001 \(PDF\)](#)

**General**

|                    |   |
|--------------------|---|
| Product Family     | Industrial Cordsets                             |
| Series             | <a href="#">120501</a>                          |
| Application        | Power   |
| Connector End A    | Ultra-Lock (M12)                                |
| Connector End B    | Ultra-Lock (M12)                                |
| IP Rating          | IP67  |
| Material - Contact | Copper Alloy                                    |
| Overview           | <a href="#">Brad M12 Power Connector System</a> |
| Product Name       | Brad M12 Power                                  |
| Protocol           | N/A   |
| Type               | Double Ended                                    |
| UPC                | 78172541840                                     |

**Physical**

|                               |                            |
|-------------------------------|----------------------------|
| Cable Diameter                | 17.53-22.35mm (.690-.880") |
| Cable Length                  | 1.0m (3.28')               |
| Color - Cable Jacket          | Black                      |
| Coupling Style                | Push to Lock               |
| Gender                        | Female-Male                |
| Keyway                        | F-coded                    |
| Material - Cable Jacket       | TPE                        |
| Material - Connector Body     | Nickel-plated Brass        |
| Material - Coupling Nut       | Nickel-plated Brass        |
| Material - O-Ring             | Fluoro-elastomer           |
| Material - Plating Mating     | Gold over Nickel           |
| Orientation                   | 90° to Straight            |
| Poles                         | 4                          |
| Temperature Range - Operating | -20°C to +90°C             |
| Wire Size AWG                 | 14                         |
| Wire/Cable Type               | TC-ER                      |

**Electrical**

|                               |            |
|-------------------------------|------------|
| Current - Maximum per Contact | 16.0A      |
| Voltage - Maximum             | 300V AC/DC |

**Material Info**

|                    |                |
|--------------------|----------------|
| Engineering Number | FFP4031K18M010 |
|--------------------|----------------|

**Reference - Drawing Numbers**

|                       |                   |
|-----------------------|-------------------|
| Product Specification | PS-120500-001-001 |
| Sales Drawing         | SD-120501-002     |

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant with Exemption 6(c)**

**REACH SVHC**

Not Contained Per - ED/108/2014 (17 Dec 2014)

**Halogen-Free**

**Status**

**Not Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

|                 |               |
|-----------------|---------------|
| China ROHS      | 50 Image      |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[120501](#) Series

**Mates With**

Brad M12 F-Coded Power Receptacles  
[120502](#)

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