

### Product type designation

**Power Connecting Cable M12-90/M12-90**  
 POWER CONNECTING CABLE M12-90/M12-90 FOR POWER  
 SUPPLY OF ET200, PREASSEMBLED CABLE W/ M12 CONNECT.  
 AND M12 FEM. CONN., A CODED, 4 WIRE 1.5 M



Figure similar

|   |                      |
|---|----------------------|
| Cable designation   | LI9YH-Y 4x0.75       |
| Wire length   | 1.5 m                |
| <b>Electrical data</b>  |                      |
| Operating voltage / RMS value                                 | 300 V                |
| Conductor cross section / of the power wire                   | 0.75 mm <sup>2</sup> |
| <b>Mechanical data</b>  |                      |
| Number of electrical cores                                    | 4                    |
| Type of electrical connection                                 | M12-180              |
| Outer diameter  |                      |
| • of inner conductor  | 1.1 mm               |
| • of the wire insulation                                      | 1.7 mm               |
| • of cable sheath   | 5.7 mm               |
| Symmetrical tolerance of the outer diameter / of cable sheath | 0.2 mm               |
| Design of stranding element                                   | Pairs                |
| Conductor class   | Cl.5                 |

|   |   |
|---|---|
| Material  |   |
| <ul style="list-style-type: none"> <li>• of the conductor</li> <li>• of the wire insulation</li> <li>• of cable sheath</li> </ul>               | <p>CU, blank</p> <p>PP</p> <p>PVC</p>           |
| Marking / of cores  | Color   |
| Color   |   |
| <ul style="list-style-type: none"> <li>• of the power wire insulation</li> <li>• of cable sheath</li> </ul>                                     | <p>brown / white / blue / black</p> <p>gray</p> |
| Bending radius  |   |
| <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul> | <p>57 mm</p> <p>57 mm</p>                       |
| Tensile load / maximum  | 15 N  |
| Weight per length   | 54 kg/km  |

#### connector

|  |         |
|--|---------|
| Type of plug interlock                           | screwed |
| Connector coding                                 | M12     |
| Connector coding / of the M12 circular connector | A coded |

#### Permitted ambient conditions

|   |  |
|---|--|
| Ambient temperature   |  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> <li>• Note</li> </ul> | <p>-25 ... +80 °C</p> <p>-25 ... +80 °C</p> <p>-25 ... +80 °C</p> <p>80 °C</p> <p>With moving applications, the permissible operating temperature range is -5 to +80 degrees Celsius</p> |
| Burning behavior  | Flame-resistant acc. to UL 758 (CSA FT 1)  |
| Chemical resistance   |  |
| <ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>   | <p>Conditional resistance</p> <p>Conditional resistance</p>  |
| Radiological resistance / to UV radiation   | not resistant  |
| Protection class IP   | IP65 / 67  |

#### Product properties, functions, components / general

|  |                      |
|--|----------------------|
| Product feature  |                      |
| <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul> | <p>No</p> <p>Yes</p> |

#### Standards, specifications, approvals

|   |     |
|---|-----|
| Certificate of suitability  |     |
| <ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul> | Yes |

#### Further Information / Internet Links

|               |  |
|---------------|--|
| Internet-Link |  |
|---------------|--|

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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