

## IE-C5DB4BB0100MCSMSA-X

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)



Assembled IE cables, railway cable, Cat.5, blue, M12

### General ordering data

|            |   |
|------------|---|
| Version    | System cable, M12 D-code – IP 67 straight pin, M12 D-code – IP 67 angled socket, Cat. 5e, Polyolefine, 10 m |
| Order No.  | <a href="#">2776740100</a>  |
| Type       | IE-C5DB4BB0100MCSMSA-X  |
| GTIN (EAN) | 4099987794763   |
| Qty.       | 1 items   |

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## Technical data

## Dimensions and weights

|            |        |                 |               |
|------------|--------|-----------------|---------------|
| Length     | 10 m   | Length (inches) | 393.7008 inch |
| Net weight | 1000 g |                 |               |

## Temperatures

|                     |                       |
|---------------------|-----------------------|
| Storage temperature | Operating temperature |
|---------------------|-----------------------|

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 67cf1078-beca-4687-860b-dc475a6ec24a |

## Cable specific standards

|   |   |                                  |   |
|---|---|----------------------------------|---|
| Flames propagate vertically on bundled cables | EN 60332-3-25,<br>According to UL1685, 12<br>(FT4 exp.) | Hydrogen halide content          | According to<br>EN-50267-2-1                  |
| Corrosiveness of fumes                        | EN 50267-2-2  | Fire safety for railway vehicles | According to EN 45545,<br>HL1 - HL3, NFPA 130 |
| Impervious to smoke                           | According to IEC 61034-2                                | Poisonous gases                  | EN 50305                                      |

## Electrical properties

|                 |       |
|-----------------|-------|
| Nominal voltage | 125 V |
|-----------------|-------|

## General standards

|                    |                 |
|--------------------|-----------------|
| Connector standard | IEC 61076-2-101 |
|--------------------|-----------------|

## Cable structure

|   |                                   |                              |                             |
|---|-----------------------------------|------------------------------|-----------------------------|
| Wire connection cross section AWG, max. | AWG 22                            | Sheathing colour             | blue                        |
| Cross-section                           | 4*AWG 22/7 - 0.32 mm <sup>2</sup> | Shielding                    | SF/UTP                      |
| Number of wires                         | 4                                 | Insulation                   | PE                          |
| Sheath diameter, max.                   | 6.8 mm                            | Sheath diameter, min.        | 6.4 mm                      |
| Material sheath                         | Polyolefine                       | Wire pair shielding          | Plastic foil                |
| Wire core insulation thickness          | 1.4 mm                            | Colour coding                | yellow, white, orange, blue |
| Wire material                           | tinned copper                     | Sheathing material thickness | 1 mm                        |

## Electrical properties of cable

|                                   |                         |                                     |          |
|-----------------------------------|-------------------------|-------------------------------------|----------|
| Category                          | Cat. 5e                 | Coupling attenuation up to 1000 MHz | 90 dB    |
| Coupling resistance at 10 MHz / m | 8.00 mΩ                 | Shield attenuation up to 1000 MHz   | 60.00 dB |
| Test voltage: wire-wire-shield    | 1000 Veff, 50 Hz, 1 min |                                     |          |

## Mechanical and material properties of cable

|                                 |                                     |                                |                    |
|---------------------------------|-------------------------------------|--------------------------------|--------------------|
| Resistance to oils              | in accordance with IEC<br>60811:404 | Halogen                        | No                 |
| Min. bending radius, repetitive | 6 * diameter                        | Min. bending radius, once only | 5 x cable diameter |
| Resistance to spread of flame   | in accordance with IEC<br>60332-1-2 | Corrosiveness of fumes         | EN 50267-2-2       |
| Impervious to smoke             | According to IEC 61034-2            |                                |                    |

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**Technical data****Plug, left**

Plug left M12, D-coded, Number of poles: 4, IP67, male contact, straight, plug, Plastic, shielded

**Plug, right**

Plug right M12, D-coded, Number of poles: 4, IP67, female contact, angled 0°, plug, Plastic, shielded

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | EC002599    | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 |             |             |

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**Drawings**

**Dimensioned drawing**



**Dimensioned drawing**



**Wiring diagram**

| M12 |        | M12 |
|-----|--------|-----|
| 1   | yellow | 1   |
| 2   | white  | 2   |
| 3   | orange | 3   |
| 4   | blue   | 4   |

**Detailed drawing**



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## Accessories

## Screwty® cable gland tool



The ideal tool for any application  
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

## General ordering data

|            |                            |         |   |
|------------|----------------------------|---------|---|
| Type       | SCREWTY SET                | Version |   |
| Order No.  | <a href="#">1910000000</a> |         | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436842              |         |   |
| Qty.       | 1 ST                       |         |   |

## Screwty® cable gland tool with torque function



The ideal tool for any application  
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## General ordering data

|            |                            |         |   |
|------------|----------------------------|---------|---|
| Type       | SCREWTY SET -DM            | Version |   |
| Order No.  | <a href="#">1920000000</a> |         | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436859              |         |   |
| Qty.       | 1 ST                       |         |   |

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## General ordering data

|            |                            |         |  |
|------------|----------------------------|---------|--|
| Type       | SCREWTY- M12               | Version |  |
| Order No.  | <a href="#">1900000000</a> |         | Cable gland tool for moulded M12 lines |
| GTIN (EAN) | 4032248375868              |         |  |
| Qty.       | 1 ST                       |         |  |

## Screwty® cable gland tool with torque function



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## General ordering data

|            |                            |         |  |
|------------|----------------------------|---------|--|
| Type       | SCREWTY-M12-DM             | Version |  |
| Order No.  | <a href="#">1900001000</a> |         | Cable gland tool for moulded M12 lines |
| GTIN (EAN) | 4032248436408              |         |  |
| Qty.       | 1 ST                       |         |  |