

**IE-C5IT4UG0020B2EB2E-X****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Assembled IE cables, PROFINET, Cat. 5, PUR, green, torsion-resistant, PushPull moulded plug-in connector according to IEC 61076-3-117 ver.14

**General ordering data**

|            |  |
|------------|--|
| Version    | Torsion cable, RJ45 IP 67 PushPull moulded V14 metal, RJ45 IP 67 PushPull moulded V14 metal, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2 m |
| Order No.  | <a href="#">1312690020</a>   |
| Type       | IE-C5IT4UG0020B2EB2E-X   |
| GTIN (EAN) | 4050118116441  |
| Qty.       | 1 pc(s).   |

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## Technical data

## Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Length     | 2 m   | Length (inches) | 78.74 inch |
| Net weight | 231 g |                 |            |

## Temperatures

|                          |                |                       |                |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature      | -40 °C...80 °C | Operating temperature | -40 °C...80 °C |
| Installation temperature | -40 °C...80 °C |                       |                |

## Cable specific standards

|                              |                          |                               |   |
|------------------------------|--------------------------|-------------------------------|---|
| Standard, assembly           | UL Style 21161           | Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) |
| Standard, shielding material | DIN EN 13602 Cu-ETP-A..B | Standard, wire material       | DIN EN 13602 Cu-ETP-A                             |

## General standards

|                    |                         |
|--------------------|-------------------------|
| Connector standard | IEC 61076-3-117 Var. 14 |
|--------------------|-------------------------|

## Standards

|                               |   |                              |                          |
|-------------------------------|---|------------------------------|--------------------------|
| Connector standard            | IEC 61076-3-117 Var. 14                           | Standard, assembly           | UL Style 21161           |
| Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |
| Standard, wire material       | DIN EN 13602 Cu-ETP-A                             |                              |                          |

## Cable structure

|                                |   |                                       |                                    |
|--------------------------------|---|---------------------------------------|------------------------------------|
| Arrangement of wire cores      | Star-quad   | Colour sequence or wires - wire pairs | white, yellow, blue, orange        |
| Complete shielding             | Plastic foil, Shielding braid made from copper wiring | Cross-section                         | 4*AWG 22/19 - 0.38 mm <sup>2</sup> |
| Diameter of inner sheathing    | 4.5 mm  | Insulation                            | PE                                 |
| Insulation cross-section       | 1.5 mm  | Material sheath                       | PUR                                |
| Number of wires                | 4   | Overlap of shielding braid            | 90 %                               |
| Sheath diameter, max.          | 6.7 mm  | Sheath diameter, min.                 | 6.3 mm                             |
| Sheathing colour               | green (RAL 6018)                                      | Sheathing material thickness          | 1 mm                               |
| Shielding                      | S/UTP   | Shielding braid thickness             | 0.13 mm                            |
| Standard designations          | 02YS C11Y<br>1X4X0.75/1.5-100 LI<br>VZN FRNC GN       | Strands                               | 19                                 |
| Wire core insulation thickness | 0.38 mm   | Wire material                         | Stranded tin-plated copper wire    |

## Electrical properties of cable

|                                |   |                          |                         |
|--------------------------------|---|--------------------------|-------------------------|
| Category                       | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) | Characteristic impedance | 100 ± 15 Ω at 1–100 MHz |
| Loop resistance                | 120 Ω/km                                    | Signal propagation time  | 4.8 ns/m                |
| Test voltage: wire-wire-shield | 700 V <sub>rms</sub> , 50 Hz, 1 min         |                          |                         |

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## Mechanical and material properties of cable

|                                 |  |                                |                                  |
|---------------------------------|--|--------------------------------|----------------------------------|
| Abrasion resistance             | very good                              | Fire propagation               | No                               |
| Halogen                         | halogen-free, according to IEC 60754-2 | Min. bending radius, once only | 5 x cable diameter               |
| Min. bending radius, repetitive | 10 x cable diameter                    | Resistance to oils             | in accordance with IEC 60811-2-1 |
| Resistance to spread of flame   | in accordance with IEC 60332-1         | Silicone-free                  | Yes                              |
| Torsion cycles                  | 1 mill.                                | Torsion resistance             | 180 °/m                          |
| UV-resistant                    | Yes                                    |                                |                                  |

## Plug, left

|           |   |
|-----------|---|
| Plug left | RJ45, IP67, male contact, straight, PushPull<br>V14 moulded, plug, Zinc diecast, shielded |
|-----------|---|

## Plug, right

|            |   |
|------------|---|
| Plug right | RJ45, IP67, male contact, straight, PushPull<br>V14 moulded, plug, Zinc diecast, shielded |
|------------|---|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ECLASS 9.0  | 27-06-03-08 | ECLASS 9.1  | 27-06-03-08 |
| ECLASS 10.0 | 27-06-03-08 | ECLASS 11.0 | 27-06-03-08 |
| ECLASS 12.0 | 27-06-03-08 | ECLASS 13.0 | 27-06-03-08 |

## Approvals

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

## Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">PROFINET Manufacturer's Declaration</a>   |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| User Documentation                          | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |
| Brochures                                   | <a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |

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[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Wiring**

| RJ45 |        | RJ45 |
|------|--------|------|
| 1    | yellow | 1    |
| 2    | orange | 2    |
| 3    | white  | 3    |
| 6    | blue   | 6    |

**Dimensioned drawing**

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Blank**

TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the PrintJet CONNECT, plotter or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

**General ordering data**

|            |                            |  |
|------------|----------------------------|--|
| Type       | TM-I 12 MC NE WS           | Version                                |
| Order No.  | <a href="#">1718411044</a> | TM-I, Insert markers, 12 x 4 mm, white |
| GTIN (EAN) | 4008190348977              |  |
| Qty.       | 320 pc(s).                 |  |

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**General ordering data**

|            |                            |  |
|------------|----------------------------|--|
| Type       | TM-I 18 MC NE WS           | Version                                |
| Order No.  | <a href="#">1718431044</a> | TM-I, Insert markers, 18 x 4 mm, white |
| GTIN (EAN) | 4008190349011              |  |
| Qty.       | 320 pc(s).                 |  |