

**Industrial Ethernet  
IE-C5IT4UG0050B2EB2E-X**

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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**

|            |                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Type       | IE-C5IT4UG0050B2EB2E-X                                                                                                                             |
| Order No.  | <a href="#">1312690050</a>                                                                                                                         |
| 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, 5 m |
| GTIN (EAN) | 4050118116526                                                                                                                                      |
| Qty.       | 1 pc(s).                                                                                                                                           |

# Industrial Ethernet

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### Technische Daten

#### Dimensions and weights

|        |     |            |     |
|--------|-----|------------|-----|
| Length | 5 m | Net weight | 0 g |
|--------|-----|------------|-----|

#### Temperatures

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

#### Electrical properties

|                       |           |
|-----------------------|-----------|
| Insulation resistance | 500.000 Ω |
|-----------------------|-----------|

#### Standards

|                               |                                                   |                         |                       |
|-------------------------------|---------------------------------------------------|-------------------------|-----------------------|
| Connector standard            | IEC 61076-3-107                                   | Standard, assembly      | UL Style 21161        |
| Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Standard, wire material | DIN EN 13602 Cu-ETP-A |
| Standard, shielding material  | DIN EN 13602 Cu-ETP-A..B                          |                         |                       |

#### Cable structure

|                                |                                                       |                                       |                                                 |
|--------------------------------|-------------------------------------------------------|---------------------------------------|-------------------------------------------------|
| Wire material                  | Stranded tin-plated copper wire                       | Standard designations                 | 02YS C11Y<br>1X4X0.75/1.5-100 LI<br>VZN FRNC GN |
| Strands                        | 19                                                    | Cross-section                         | 4* AWG 22/19 - 0.38 mm <sup>2</sup>             |
| Insulation                     | PE                                                    | Insulation cross-section              | 1.5 mm                                          |
| Wire core insulation thickness | 0.38 mm                                               | No. of wires                          | 4                                               |
| Arrangement of wire cores      | Star-quad                                             | Colour sequence or wires - wire pairs | white, yellow, blue, orange                     |
| Diameter of inner sheathing    | 4.5 mm                                                | Shielding                             | S/UTP                                           |
| Complete shielding             | Plastic foil, Shielding braid made from copper wiring | Shielding braid thickness             | 0.13 mm                                         |
| Overlap of shielding braid     | 85 %                                                  | Material sheath                       | PUR                                             |
| Sheath diameter, min.          | 6.3 mm                                                | Sheath diameter, max.                 | 6.7 mm                                          |
| Sheathing material thickness   | 1 mm                                                  | Sheathing colour                      | green (RAL 6018)                                |

#### Electrical properties of cable

|                          |                                             |                                                     |          |
|--------------------------|---------------------------------------------|-----------------------------------------------------|----------|
| Category                 | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) | Test voltage: wire-wire-shield, at RMS 50Hz, 1 min. | 700 V    |
| Characteristic impedance | 100 ± 15 Ω at 1-100 MHz                     | Loop resistance                                     | 120 Ω/km |
| Insulation resistance    | 500.000 Ω                                   | Signal propagation time                             | 4.8 ns/m |

#### Mechanical and material properties of cable

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

Erstellungs-Datum December 20, 2013 8:22:31 AM CET

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**Technische Daten****plug**

|                        |                                          |                         |                                          |
|------------------------|------------------------------------------|-------------------------|------------------------------------------|
| Version connector left | RJ45 IP 67 PushPull<br>moulded V14 metal | Version connector right | RJ45 IP 67 PushPull<br>moulded V14 metal |
|------------------------|------------------------------------------|-------------------------|------------------------------------------|

**Classifications**

|            |             |
|------------|-------------|
| eClass 6.2 | 27-06-91-90 |
|------------|-------------|

**Approvals**

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

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## Zeichnungen

### Wiring

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