

## IE-C6ES8UG0250A40A40-E

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

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



Assembled IE cables, patch cable Cabinet Line, various colours

### General ordering data

|            |   |
|------------|---|
| Version    | System cable, RJ45 IP 20, RJ45 IP 20, Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), PUR, 25 m |
| Order No.  | <a href="#">8909650250</a>  |
| Type       | IE-C6ES8UG0250A40A40-E  |
| GTIN (EAN) | 4032248667789   |
| Qty.       | 1 pc(s).  |

Creation date January 30, 2022 10:21:12 AM CET

Catalogue status 14.01.2022 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|            |         |                 |              |
|------------|---------|-----------------|--------------|
| Length     | 25 m    | Length (inches) | 984.252 inch |
| Net weight | 1,204 g |                 |              |

## Temperatures

|                          |                |                       |                |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature      | -40 °C...80 °C | Operating temperature | -40 °C...80 °C |
| Installation temperature | -15 °C...60 °C |                       |                |

## Cable specific standards

|                        |                           |  |                                       |
|------------------------|---------------------------|--|---------------------------------------|
| Corrosiveness of fumes | to IEC 60754-2            | Generic communication cable facilities | EN 50173-1:2007, ISO / IEC 11801:2002 |
| Standard, assembly     | UL-Style 20963 (80°C/30V) |  |                                       |

## General standards

|                    |                 |
|--------------------|-----------------|
| Connector standard | IEC 60603-7-5 1 |
|--------------------|-----------------|

## Standards

|  |                                       |                        |                           |
|--|---------------------------------------|------------------------|---------------------------|
| Connector standard                     | IEC 60603-7-5 1                       | Corrosiveness of fumes | to IEC 60754-2            |
| Generic communication cable facilities | EN 50173-1:2007, ISO / IEC 11801:2002 | Standard, assembly     | UL-Style 20963 (80°C/30V) |

## Cable structure

|                           |  |                                       |  |
|---------------------------|--|---------------------------------------|--|
| Arrangement of wire cores | Twisted pair                             | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| Complete shielding        | Shielding braid made from copper wiring  | Copper diameter                       | 0.48 mm  |
| Cross-section             | 4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup> | Insulation                            | PE   |
| Insulation cross-section  | 1.03 mm                                  | Material sheath                       | PUR  |
| Sheath diameter, max.     | 6.6 mm                                   | Sheath diameter, min.                 | 6.2 mm   |
| Sheathing colour          | green (RAL 6018)                         | Shielding                             | S/FTP  |
| Shielding braid thickness | 0.1 mm                                   | Standard designations                 | S/FTP, LIO2YSC11Y 4x2x0.15 PIMF FRNC GN                    |
| Strands                   | 7  | Wire material                         | Stranded tin-plated copper wire                            |
| Wire pair shielding       | Aluminium foil                           |                                       |  |

## Electrical properties of cable

|                          |  |                                |  |
|--------------------------|--|--------------------------------|--|
| Capacity at 1 kHz        | 45 nF/km   | Category                       | Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010) |
| Characteristic impedance | 100 ± 5 Ω at 100MHz                                    | Deviation                      | 3 ns/100m  |
| Loop resistance          | 290 Ω/km   | Signal propagation time        | 4.5 ns/m   |
| Speed                    | 10 GBit/s  | Test voltage: wire-wire-shield | 700 V AC   |
| Transfer impedance       | 15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz |                                |  |

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**Technical data**
**Mechanical and material properties of cable**

|                                 |  |                                |                                |
|---------------------------------|--|--------------------------------|--------------------------------|
| Abrasion resistance             | very good                              | Corrosiveness of fumes         | to IEC 60754-2                 |
| 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                    | Pulling force                  | ≤ 100 N                        |
| Resistance to oils              | in accordance with IEC 60811-2-1       | Resistance to spread of flame  | in accordance with IEC 60332-1 |
| Speed                           | 10 GBit/s                              |                                |                                |

**Plug, left**

|                |            |
|----------------|------------|
| Connector left | RJ45 IP 20 |
|----------------|------------|

**Plug, right**

|                 |            |
|-----------------|------------|
| Connector right | RJ45 IP 20 |
|-----------------|------------|

**plug**

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Connector left | RJ45 IP 20 | Connector right | RJ45 IP 20 |
|----------------|------------|-----------------|------------|

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ETIM 8.0    | 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 |             |             |

**Approvals**

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

**Downloads**

|                    |   |
|--------------------|---|
| 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> |

**Data sheet**

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**Drawings**

**Wiring**

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|      |   |                |   |      |
|------|---|----------------|---|------|
| RJ45 | 1 | white (orange) | 1 | RJ45 |
|      | 2 | orange         | 2 |      |
|      | 3 | white (green)  | 3 |      |
|      | 4 | blue           | 4 |      |
|      | 5 | white (blue)   | 5 |      |
|      | 6 | green          | 6 |      |
|      | 7 | white (brown)  | 7 |      |
|      | 8 | brown          | 8 |      |

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