

**Industrial Ethernet  
IE-C5ES8UG0650A40A40-E**

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Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5, 6 and 14
- Cat. 6 throughout<sub>A</sub> with **STEADYTEC**® technology
- pre-assembled cables and cables sold by the metre
- Copper and fibre-optic cables
- in IP20 and IP67
- all relevant industrial connections: RJ45, M12, SC, ...
- comprehensive range of accessories

**General ordering data**

|            |  |
|------------|--|
| Type       | IE-C5ES8UG0650A40A40-E   |
| Order No.  | <a href="#">8935660650</a>   |
| Version    | System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 65 m |
| GTIN (EAN) | 4050118356571  |
| Qty.       | 1 pc(s).   |

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**Technical data**
**Dimensions and weights**

|            |         |                          |            |
|------------|---------|--------------------------|------------|
| Length     | 65 m    | Length (inches)          | 2.559 inch |
| Net weight | 1,250 g | Insulation cross-section | 1 mm       |

**Temperatures**

|                             |                |                             |                |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 80 °C          | Operating temperature, min. | -40 °C         |
| Storage temperature, max.   | 80 °C          | Storage temperature, min.   | -40 °C         |
| Operating temperature       | -40 °C...80 °C | Storage temperature         | -40 °C...80 °C |
| Installation temperature    | -10 °C...60 °C |                             |                |

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**Standards**

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

**Cable structure**

|                                       |  |                           |  |
|---------------------------------------|--|---------------------------|--|
| Wire material                         | Stranded tin-plated copper wire                            | Standard designations     | SF/UTP, IE-7IC4x2xAWG23/1-PUR 02YSC 11Y PIMF |
| Strands                               | 7  | Cross-section             | 4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>     |
| Insulation                            | PE   | Insulation cross-section  | 1 mm   |
| No. of wires                          | 8  | Arrangement of wire cores | Twisted pair                                 |
| Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown | Shielding                 | SF/UTP                                       |
| Complete shielding                    | Aluminium foil, Shielding braid made from copper wiring    | Shielding braid thickness | 0.1 mm                                       |
| Material sheath                       | PUR  | Sheath diameter, min.     | 5.7 mm                                       |
| Sheath diameter, max.                 | 6.1 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 | 700 V AC |
| Characteristic impedance | 100 ± 5 Ω at 100MHz                         | Loop resistance                | 290 Ω/km |
| Deviation                | 25 ns/100m                                  | Capacity at 1 kHz              | 50 nF/km |
| Signal propagation time  | 4.85 ns/m                                   |                                |          |

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# Technical data

### Mechanical and material properties of cable

|                                |                                  |                                 |  |
|--------------------------------|----------------------------------|---------------------------------|--|
| Min. bending radius, once only | 5 x cable diameter               | Min. bending radius, repetitive | 10 x cable diameter                    |
| 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 |
| Corrosiveness of fumes         | to IEC 60754-2                   |                                 |  |

### plug

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

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001262    | ETIM 5.0   | EC000830    |
| ETIM 6.0   | EC002599    | UNSPSC     | 26-12-16-06 |
| eClass 5.1 | 27-06-18-02 | eClass 6.2 | 27-06-18-01 |
| eClass 7.1 | 27-06-18-01 | eClass 8.1 | 27-06-18-01 |
| eClass 9.0 | 27-06-03-08 | eClass 9.1 | 27-06-03-08 |

### Approvals

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

### Downloads

|                    |   |
|--------------------|---|
| Brochure/Catalogue | <a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |
| User Documentation | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>          |