

**Industrial Ethernet  
IE-C6ES8UG0010A40A40-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com



Assembled IE cables, patch cable Cabinet Line, various colours

**General ordering data**

|            |                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------|
| Type       | IE-C6ES8UG0010A40A40-E                                                                                         |
| Order No.  | <a href="#">8909650010</a>                                                                                     |
| Version    | System cable, RJ45 IP 20, RJ45 IP 20, Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), PUR, 1 m |
| GTIN (EAN) | 4050118473537                                                                                                  |
| Qty.       | 1 pc(s).                                                                                                       |

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## Technical data

### Dimensions and weights

|            |      |                          |            |
|------------|------|--------------------------|------------|
| Length     | 1 m  | Length (inches)          | 0.039 inch |
| Net weight | 61 g | Insulation cross-section | 1.03 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    | -15 °C...60 °C |                             |                |

### Environmental Product Compliance

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

### 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) |                                        |                                       |

### Cable structure

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

### Electrical properties of cable

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

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### Mechanical and material properties of cable

|                                |                                  |                                 |                                        |
|--------------------------------|----------------------------------|---------------------------------|----------------------------------------|
| Min. bending radius, once only | 5 x cable diameter               | Min. bending radius, repetitive | 10 x cable diameter                    |
| Pulling force                  | ≤ 100 N                          | Speed                           | 10 GBit/s                              |
| 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 | 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 6.0   | EC002599    |
| UNSPSC     | 26-12-16-06 | eClass 5.1 | 27-06-18-02 |
| eClass 6.2 | 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>          |

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## Drawings

### Wiring

|      |   |                |   |      |
|------|---|----------------|---|------|
| 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 |      |