

**IE-C6EL8UG0400U40XCS-E**

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

www.weidmueller.com



Assembled IE cables for EtherNet/IP applications with plug-in connector, type M12 X, cat. 6A, according to IEC 61076-2-109 and RJ45 plug-in connector for 10 GBit/s applications

**General ordering data**

|            |   |
|------------|---|
| Version    | System cable, RJ45 IP 20, M12 X-type IP 67 straight male, Cat.6A / Class EA (ISO/IEC 11801 2010), PUR, 40 m |
| Order No.  | <a href="#">1457580400</a>  |
| Type       | IE-C6EL8UG0400U40XCS-E  |
| GTIN (EAN) | 4050118392609   |
| Qty.       | 1 items   |

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## Technical data

## Approvals

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

## Dimensions and weights

|            |        |                 |                |
|------------|--------|-----------------|----------------|
| Length     | 40 m   | Length (inches) | 1574.8031 inch |
| Net weight | 1600 g |                 |                |

## Temperatures

|                          |                |                       |                |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature      | -40 °C...80 °C | Operating temperature | -40 °C...80 °C |
| Installation temperature | -20 °C...60 °C |                       |                |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 67cf1078-beca-4687-860b-dc475a6ec24a |

## Cable specific standards

|                    |                |                     |                        |
|--------------------|----------------|---------------------|------------------------|
| Standard, assembly | UL Style 20963 | Impervious to smoke | According to IEC 61034 |
|--------------------|----------------|---------------------|------------------------|

## Standards

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

## Cable structure

|                           |  |                                       |  |
|---------------------------|--|---------------------------------------|--|
| Strands                   | 7  | Sheathing colour                      | green (RAL 6018)   |
| Standard designations     | S/FTP, LIO2YSC11Y<br>4x2x0.15 PIMF FRNC GN | Cross-section                         | 4*2*AWG 26/7 -<br>4*2*0.128 mm <sup>2</sup>                      |
| Shielding                 | S/FTP                                      | Number of wires                       | 8  |
| Insulation cross-section  | 0.98 mm                                    | Insulation                            | PE   |
| Sheath diameter, max.     | 6.7 mm                                     | Sheath diameter, min.                 | 6.1 mm   |
| Material sheath           | PUR  | Wiring                                | EIA/TIA T568 B   |
| Copper diameter           | 0.48 µm                                    | Wire pair shielding                   | Aluminium foil   |
| Arrangement of wire cores | Twisted pair                               | Complete shielding                    | Shielding braid made from<br>copper wiring                       |
| Wire material             | Stranded tin-plated copper<br>wire         | Colour sequence or wires - wire pairs | white - blue, white -<br>orange, white - green,<br>white - brown |
| Shielding braid thickness | 0.1 mm                                     |                                       |  |

## Electrical properties of cable

|                         |  |                                |                        |
|-------------------------|--|--------------------------------|------------------------|
| Category                | Cat.6A / Class EA (ISO/<br>IEC 11801 2010)                   | Loop resistance                | 290 Ω/km               |
| Signal propagation time | 5.2 ns/m   | Test voltage: wire-wire-shield | 700 Vrms, 50 Hz, 1 min |
| Transfer impedance      | 15 mΩ/m at 1 MHz, 10<br>mΩ/m at 10 MHz, 30<br>mΩ/m at 30 MHz | Characteristic impedance       | 100 ± 5 Ω at 100MHz    |

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**Technical data**

**Mechanical and material properties of cable**

|                                 |                                  |                                |  |
|---------------------------------|----------------------------------|--------------------------------|--|
| Resistance to oils              | in accordance with IEC 60811-2-1 | Halogen                        | halogen-free, according to IEC 60754-1 |
| Min. bending radius, repetitive | 10 x cable diameter              | Min. bending radius, once only | 5 x cable diameter                     |
| Abrasion resistance             | very good                        | Resistance to spread of flame  | in accordance with IEC 60332-1-2       |
| Impervious to smoke             | According to IEC 61034           |                                |  |

**Plug, left**

|           |   |
|-----------|---|
| Plug left | RJ45, IP20, male contact, straight, plug, Plastic, shielded |
|-----------|---|

**Plug, right**

|            |   |
|------------|---|
| Plug right | M12, X-coded, IP67, male contact, straight, plug, Plastic, shielded |
|------------|---|

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | EC002599    | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 |             |             |

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**Drawings**

**Wiring**

|      |   |               |   |     |
|------|---|---------------|---|-----|
| RJ45 | 1 | White, Orange | 1 | M12 |
|      | 2 | Orange        | 2 |     |
|      | 3 | White, Green  | 3 |     |
|      | 4 | Blue          | 8 |     |
|      | 5 | White, Blue   | 7 |     |
|      | 6 | Green         | 4 |     |
|      | 7 | White, Brown  | 5 |     |
|      | 8 | Brown         | 6 |     |

**Pinning**

