

**IE-C6EL8UG0005U40XCS-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), PUR, 0.5 m |
| Order No.  | <a href="#">1457580005</a>                                                                                                           |
| Type       | IE-C6EL8UG0005U40XCS-E                                                                                                               |
| GTIN (EAN) | 4050118628678                                                                                                                        |
| Qty.       | 1 pc(s).                                                                                                                             |

Creation date April 15, 2021 3:05:00 PM CEST

Catalogue status 09.04.2021 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Length     | 0.5 m | Length (inches) | 19.685 inch |
| Net weight | 50 g  |                 |             |

## Temperatures

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

## Environmental Product Compliance

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

## Cable specific standards

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

## Standards

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

## Cable structure

|                           |                                          |                                       |                                                            |
|---------------------------|------------------------------------------|---------------------------------------|------------------------------------------------------------|
| Arrangement of wire cores |                                          | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
|                           | Twisted pair                             |                                       |                                                            |
| Complete shielding        | Shielding braid made from copper wiring  | Copper diameter                       | 0.48 µm                                                    |
| Cross-section             | 4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup> | Insulation                            | PE                                                         |
| Insulation cross-section  | 0.98 mm                                  | Material sheath                       | PUR                                                        |
| Number of wires           | 8                                        | Sheath diameter, max.                 | 6.7 mm                                                     |
| Sheath diameter, min.     | 6.1 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                                             |
| Wiring                    | EIA/TIA T568 B                           |                                       |                                                            |

## Electrical properties of cable

|                                |                                                    |                          |                                                        |
|--------------------------------|----------------------------------------------------|--------------------------|--------------------------------------------------------|
| Category                       | Cat.6A / Class E <sub>A</sub> (ISO/IEC 11801 2010) | Characteristic impedance | 100 ± 5 Ω at 100MHz                                    |
| Loop resistance                | 290 Ω/km                                           | Signal propagation time  | 5.2 ns/m                                               |
| Test voltage: wire-wire-shield | 700 V <sub>rms</sub> , 50 Hz, 1 min                | 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                        | Halogen                        | halogen-free, according to IEC 60754-1 |
| Impervious to smoke             | According to IEC 61034           | Min. bending radius, once only | 5 x cable diameter                     |
| Min. bending radius, repetitive | 10 x cable diameter              | Resistance to oils             | in accordance with IEC 60811-2-1       |
| Resistance to spread of flame   | in accordance with IEC 60332-1-2 |                                |                                        |

**Plug, left**

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

**Plug, right**

|                 |                                |
|-----------------|--------------------------------|
| Connector right | M12 X-type IP 67 straight male |
|-----------------|--------------------------------|

**plug**

|                |            |                 |                                |
|----------------|------------|-----------------|--------------------------------|
| Connector left | RJ45 IP 20 | Connector right | M12 X-type IP 67 straight male |
|----------------|------------|-----------------|--------------------------------|

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | 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**

|                    |                                          |
|--------------------|------------------------------------------|
| Brochure/Catalogue | <a href="#">Catalogues in PDF-format</a> |
|--------------------|------------------------------------------|

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|      |   |               |   |     |
|------|---|---------------|---|-----|
| 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**