

IE-C6EL8UG0050U40XCS-E

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

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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, 5 m |
| Order No. | 1457580050 |
| Type | IE-C6EL8UG0050U40XCS-E |
| GTIN (EAN) | 4050118264067 |
| Qty. | 1 items |

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Technical data

Approvals

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

Dimensions and weights

| | | | |
|------------|-------|-----------------|---------------|
| Length | 5 m | Length (inches) | 196.8504 inch |
| Net weight | 252 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 |
|--------------------|----------------|---------------------|------------------------|

General standards

| | |
|--------------------|----------------------------------|
| Connector standard | IEC 60603-7-5 1, IEC 61076-2-109 |
|--------------------|----------------------------------|

Standards

| | | | |
|---------------------|----------------------------------|--------------------|----------------|
| Connector standard | IEC 60603-7-5 1, IEC 61076-2-109 | Standard, assembly | UL Style 20963 |
| Impervious to smoke | According to IEC 61034 | | |

Cable structure

| | | | |
|---------------------------|--|---------------------------------------|--|
| Strands | 7 | Sheathing colour | green (RAL 6018) |
| Standard designations | S/FTP, LIO2YSC11Y 4x2x0.15 PIMF FRNC GN | Cross-section | 4*2*AWG 26/7 - 4*2*0.128 mm ² |
| 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 copper wiring |
| Wire material | Stranded tin-plated copper wire | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| Shielding braid thickness | 0.1 mm | | |

Electrical properties of cable

| | | | |
|-------------------|-----------|-------------------------|--|
| Transmission rate | 10 Gbit/s | Category | Cat.6A / Class EA (ISO/ IEC 11801 2010) |
| Loop resistance | 290 Ω/km | Signal propagation time | 5.2 ns/m |

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| Test voltage: wire-wire-shield | 700 Vrms, 50 Hz, 1 min | Transfer impedance | 15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz |
| Characteristic impedance | 100 ± 5 Ω at 100MHz | | |

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

