

## Industrial Ethernet IE-C5ES8VG0015M40M40-G

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



Assembled cables, patch cable Cabinet Line, Cat. 5, PVC, green

### General ordering data

|            |   |
|------------|---|
| Type       | IE-C5ES8VG0015M40M40-G  |
| Order No.  | <a href="#">1166020015</a>  |
| Version    | System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801), PVC, 1.5 m |
| GTIN (EAN) | 4032248956821   |
| Qty.       | 1 pc(s).  |

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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### Technical data

#### Dimensions and weights

|            |       |                          |            |
|------------|-------|--------------------------|------------|
| Length     | 1.5 m | Length (inches)          | 0.059 inch |
| Net weight | 72 g  | Insulation cross-section | 0.98 mm    |

#### Temperatures

|                             |                |                             |        |
|-----------------------------|----------------|-----------------------------|--------|
| Operating temperature, max. | 75 °C          | Operating temperature, min. | -40 °C |
| Operating temperature       | -40 °C...75 °C |                             |        |

#### Environmental Product Compliance

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

#### Cable specific standards

|  |   |                              |                          |
|--|---|------------------------------|--------------------------|
| Generic communication cable facilities | ISO / IEC 11801:2002, EN 50173-1:2007             | Standard, assembly           | UL-Style 2879 (80°C/30V) |
| Standard, insulating material          | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |
| Standard, wire material                | DIN EN 13602 Cu-ETP-A                             |                              |                          |

#### Electrical properties

|                     |                            |                   |       |
|---------------------|----------------------------|-------------------|-------|
| Insulation strength | 5000 MΩ                    | Operating voltage | 100 V |
| PoE / PoE+          | conforming to IEEE 802.3at |                   |       |

#### General standards

|                    |                 |
|--------------------|-----------------|
| Connector standard | IEC 60603-7-5 1 |
|--------------------|-----------------|

#### Cable structure

|                                |                                 |                                       |  |
|--------------------------------|---------------------------------|---------------------------------------|--|
| Wire material                  | Stranded tin-plated copper wire | Standard designations                 | LI02YSCY 4X2X0.15 PIMF GN, SF/UTP  |
| Strands                        | 7                               | Cross-section                         | 4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>   |
| Insulation                     | PE                              | Insulation cross-section              | 0.98 mm  |
| Wire core insulation thickness | 0.25 mm                         | Number of wires                       | 8  |
| Arrangement of wire cores      | Twisted pair                    | Diameter of wire pair                 | 2.4 mm   |
| Wire pair shielding            | Aluminium foil, Plastic foil    | Colour sequence or wires - wire pairs | white/blue - blue, white/<br>orange - orange, white/<br>green - green, white/<br>brown - brown |
| Shielding                      | SF/UTP                          | Complete shielding                    | Shielding braid made from copper wiring  |
| Shielding braid thickness      | 0.1 mm                          | Overlap of shielding braid            | 70 %   |
| Material sheath                | PVC                             | Sheath diameter, min.                 | 5.4 mm   |
| Sheath diameter, max.          | 5.8 mm                          | Sheathing material thickness          | 0.5 mm   |
| Sheathing colour               | green (RAL 6018)                |                                       |  |

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**Technical data**
**Electrical properties of cable**

|                               |  |                                |                     |
|-------------------------------|--|--------------------------------|---------------------|
| Category                      | Cat.5 (ISO/IEC 11801)                                  | Operating voltage              | 100 V               |
| Operating voltage (UL rating) | 30 V undefined   | Test voltage: wire-wire-shield | 750 V DC, 1 min     |
| Characteristic impedance      | 100 ± 5 Ω at 100MHz                                    | Loop resistance                | 150 Ω/km            |
| Deviation                     | 25 ns/100m   | Resistance differential        | 3 %                 |
| Transfer impedance            | 15 mΩ/m at 1 MHz, 20 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz | Shield attenuation             | 55 dB at 30–600 MHz |
| Insulation strength           | 5000 MΩ  | Capacity at 1 kHz              | 48 nF/km            |
| Signal propagation time       | 5.13 ns/m  |                                |                     |

**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            | good               | Resistance to spread of flame   | in accordance with IEC 60332-1 |

**plug**

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

**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 | UNSPSC     | 26-12-16-06 |

**Approvals**

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

**Downloads**

|                             |  |
|-----------------------------|--|
| Brochure/Catalogue          | <a href="#">CAT 9 IETH 18/19 EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |
| Product Change Notification | <a href="#">PCN-PB47-20180213-00-A_EN</a><br><a href="#">PCN-PB47-20180213-00-A_DE</a>                             |
| User Documentation          | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>   |

**Data sheet****Industrial Ethernet  
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**Drawings****Wiring**

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

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**Accessories**
**Blank**


TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are five different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the SMark laser printer, PrintJet ADVANCED, plotter, MC-Mobilo or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

**General ordering data**

| Type       | TM-I 18 MC NE WS           | Version                                |
|------------|----------------------------|--|
| Order No.  | <a href="#">1718431044</a> | TM-I, Insert markers, 18 x 4 mm, white |
| GTIN (EAN) | 4008190349011              |  |
| Qty.       | 320 pc(s).                 |  |

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**General ordering data**

| Type       | TM-I 12 MC NE WS           | Version                                |
|------------|----------------------------|--|
| Order No.  | <a href="#">1718411044</a> | TM-I, Insert markers, 12 x 4 mm, white |
| GTIN (EAN) | 4008190348977              |  |
| Qty.       | 320 pc(s).                 |  |