

IE-C5ES8VG0200M40M40-G**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

General ordering data

| | |
|------------|--|
| Version | System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801), PVC, 20 m |
| Order No. | 1166020200 |
| Type | IE-C5ES8VG0200M40M40-G |
| GTIN (EAN) | 4032248956883 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|-------|-----------------|--------------|
| Length | 20 m | Length (inches) | 787.402 inch |
| Net weight | 823 g | | |

Temperatures

| | |
|-----------------------|----------------|
| Operating temperature | -40 °C...75 °C |
|-----------------------|----------------|

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

| | |
|------------|----------------------------|
| PoE / PoE+ | conforming to IEEE 802.3at |
|------------|----------------------------|

General standards

| | |
|--------------------|----------------|
| Connector standard | IEC 60603-7-51 |
|--------------------|----------------|

Standards

| | | | |
|------------------------------|--------------------------|--|---|
| Connector standard | IEC 60603-7-51 | 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 |

Cable structure

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

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Technical data

Electrical properties of cable

| | | | |
|--------------------------------|----------------------------|-------------------------------|--|
| Capacity at 1 kHz | 48 nF/km | Category | Cat.5 (ISO/IEC 11801) |
| Characteristic impedance | 100 ± 5 Ω at 100MHz | Delay skew | 25 ns/100m |
| Loop resistance | 150 Ω/km | Operating voltage (UL rating) | 30 V |
| Operating voltage, UL | 30 V | Resistance differential | 3 % |
| Shield attenuation | 55 dB at 30–600 MHz | Signal propagation time | 5.13 ns/m |
| Test voltage: wire-wire-shield | | Transfer impedance | 15 mΩ/m at 1 MHz, 20 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz |
| | 750 V DC, 1 min | | |
| Transmission rate | 10/100 MBit/s, 1000 MBit/s | | |

Mechanical and material properties of cable

| | | | |
|--------------------------------|--------------------------------|---------------------------------|---------------------|
| Abrasion resistance | good | Halogen | Yes |
| Min. bending radius, once only | 5 x cable diameter | Min. bending radius, repetitive | 10 x cable diameter |
| Resistance to spread of flame | in accordance with IEC 60332-1 | | |

Plug

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

Plug, left

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

Plug, right

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002599 | ETIM 7.0 | EC002599 |
| ETIM 8.0 | EC002599 | ETIM 9.0 | 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 |
| ECLASS 12.0 | 27-06-03-08 | ECLASS 13.0 | 27-06-03-08 |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | / |
|------------|---|

Approvals

Approvals



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

Creation date July 3, 2024 11:43:28 AM CEST

Catalogue status 29.06.2024 / We reserve the right to make technical changes.

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Technical data

Downloads

| | |
|-----------------------------|---|
| Engineering Data | CAD data – STEP |
| Product Change Notification | PCN-PB47-20180213-00-A_EN PCN-PB47-20180213-00-A_DE |
| User Documentation | MAN IE GUIDE DE MAN IE GUIDE EN |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN PI PROFINET CABLING EN PI PROFINET CABLING EN |

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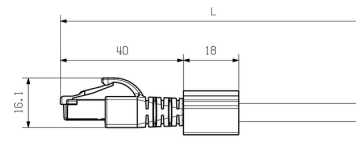
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www.weidmueller.com**Drawings****Wiring**

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

Dimensioned drawing

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www.weidmueller.com**Accessories****Blank**

TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various 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 PrintJet CONNECT, plotter 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. | 1718431044 | 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. | 1718411044 | TM-I, Insert markers, 12 x 4 mm, white |
| GTIN (EAN) | 4008190348977 | |
| Qty. | 320 pc(s). | |