

IE-C6GB8RB0300XCSXCS-E

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

www.weidmueller.com



Assembled IE cables, railway cable, Cat.7, blue, M12

General ordering data

| | |
|------------|--|
| Version | System cable, M12 X-type IP 67 straight male, M12 X-type IP 67 straight male, Cat.6A / Class EA (ISO/IEC 11801 2010), Radox EM 104, 30 m |
| Order No. | 2464200300 |
| Type | IE-C6GB8RB0300XCSXCS-E |
| GTIN (EAN) | 4050118478945 |
| Qty. | 1 items |

IE-C6GB8RB0300XCSXCS-E

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

www.weidmueller.com

Technical data

Approvals

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

Dimensions and weights

| | | | |
|------------|--------|-----------------|----------------|
| Length | 30 m | Length (inches) | 1181.1024 inch |
| Net weight | 2652 g | | |

Temperatures

| | | |
|--------------------------|-----------------------|----------------|
| Storage temperature | Operating temperature | -30 °C...70 °C |
| Installation temperature | | |

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

| | | | |
|--|---|---|---|
| Fluorine content | According to EN 60684-2 Section 45.2 | Flames propagate vertically on bundled cables | EN 50305, EN 60332-3-25, According to NF C32-070, 2.2, According to UL1685, 12 (FT4 exp.), in accordance with EN 50266 |
| Multi-wire metallic data and control cable | DIN EN 50288-4-2 | Hydrogen halide content | According to EN-50267-2-1 |
| Corrosiveness of fumes | to IEC 60754-2 | Fire safety for railway vehicles | According to EN 45545, HL1 - HL3, According to DIN 5510 1-4, According to NF F16-101, A1, A2, B, According to UNI CEI 11170, LR1-LR4, NFPA 130, According to BS 6853, GM/RT 2130, Ia,Ib, II |
| Impervious to smoke | According to BS 6853 Appendix D, According to IEC 61034-2, According to UL1685, 12 (FT4 exp.) | Poisonous gases | According to BS 6853 Appendix B |

Electrical properties

| | | | |
|-------------------|------|-----------------------|----------|
| Operating voltage | 50 V | Insulation resistance | ≥ 100 MΩ |
|-------------------|------|-----------------------|----------|

General standards

| | |
|--------------------|-----------------|
| Connector standard | IEC 61076-2-109 |
|--------------------|-----------------|

Cable structure

| | | | |
|---|--------|---------------|---------------------------------------|
| Wire connection cross section AWG, max. | AWG 24 | Strands | 7 |
| Sheathing colour | blue | Cross-section | 4*2*AWG24/7 - 4*2*0.2 mm ² |

IE-C6GB8RB0300XCSXCS-E

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

| | | | |
|--------------------------|---------------------------------|-----------------------|--|
| Shielding | S/FTP | Number of wires | 8 |
| Insulation cross-section | 1.35 mm | Insulation | PE |
| Sheath diameter, max. | 8.6 mm | Sheath diameter, min. | 7.6 mm |
| Material sheath | Radox EM 104 | Colour coding | white / orange, orange, white / green, green, white / brown, brown, white / blue, blue |
| Wire material | Stranded tin-plated copper wire | | |

Electrical properties of cable

| | | | |
|-----------------------|-----------|-------------------|--|
| Transmission rate | 10 Gbit/s | Operating voltage | 50 V |
| Insulation resistance | ≥ 100 MΩ | Category | Cat.6A / Class EA (ISO/IEC 11801 2010) |

Mechanical and material properties of cable

| | | | |
|---------------------------------|---|------------------------|----------------|
| Resistance to oils | in accordance with EN 50264-1 or EN 50306-1 | Halogen | No |
| Min. bending radius, repetitive | 4 x cable diameter | Abrasion resistance | very good |
| Resistance to spread of flame | in accordance with IEC 60332-1-2, According to NF C32-070, 2.1, NFPA 130 | Corrosiveness of fumes | to IEC 60754-2 |
| Impervious to smoke | According to BS 6853 Appendix D, According to IEC 61034-2, According to UL1685, 12 (FT4 exp.) | | |

Plug, left

| | |
|-----------|---|
| Plug left | M12, X-coded, Number of poles: 8, IP67, male contact, straight, plug, Plastic, shielded |
|-----------|---|

Plug, right

| | |
|------------|---|
| Plug right | M12, X-coded, Number of poles: 8, 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 | | |

IE-C6GB8RB0300XCSXCS-E

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

www.weidmueller.com

Drawings

Wiring

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

Pinning



IE-C6GB8RB0300XCSXCS-E

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

www.weidmueller.com

Accessories

Screwty® cable gland tool



The ideal tool for any application
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

| | | | |
|------------|----------------------------|---------|---|
| Type | SCREWTY SET | Version | |
| Order No. | 1910000000 | | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436842 | | |
| Qty. | 1 ST | | |

Screwty® cable gland tool with torque function



The ideal tool for any application
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

| | | | |
|------------|----------------------------|---------|---|
| Type | SCREWTY SET -DM | Version | |
| Order No. | 1920000000 | | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436859 | | |
| Qty. | 1 ST | | |

IE-C6GB8RB0300XCSXCS-E

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

www.weidmueller.com

Accessories

Screwty® cable gland tool



The ideal tool for any application
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | SCREWTY- M12 | Version | |
| Order No. | 1900000000 | | Cable gland tool for moulded M12 lines |
| GTIN (EAN) | 4032248375868 | | |
| Qty. | 1 ST | | |

Screwty® cable gland tool with torque function



The ideal tool for any application
 Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | SCREWTY-M12-DM | Version | |
| Order No. | 1900001000 | | Cable gland tool for moulded M12 lines |
| GTIN (EAN) | 4032248436408 | | |
| Qty. | 1 ST | | |