

IE-C7ES8VG-100**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Bulk stock, copper cable, flexible, Cat. 7

General ordering data

| | |
|------------|---|
| Version | System cable, Cat.7 (ISO/IEC 11801), PVC, 100 m |
| Order No. | 8813170000 |
| Type | IE-C7ES8VG-100 |
| GTIN (EAN) | 4032248513024 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|----------------|
| Length | 100 m | Length (inches) | 3,937.008 inch |
| Net weight | 4,460 g | | |

Temperatures

| | | | |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...75 °C | Operating temperature | -40 °C...75 °C |
| Installation temperature | 0 °C...50 °C | | |

Technical specifications for cable

| | | | |
|------------------|------------------|--------------------------------|--------------------------------|
| Insulation | PE | Number of poles | 8 |
| Number of wires | 8 | Resistance to spread of flame | in accordance with IEC 60332-1 |
| Sheathing colour | green (RAL 6018) | Test voltage: wire-wire-shield | 700 V AC |

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 | | |

Standards

| | | | |
|--|---|------------------------------|--------------------------|
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| 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 | | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| | Twisted pair | | |
| Complete shielding | Shielding braid made from copper wiring | Cross-section | 4*2*AWG 26/7 - 4*2*0.128 mm ² |
| Insulation | PE | Insulation cross-section | 1.04 mm |
| Material sheath | PVC | Number of wires | 8 |
| Overlap of shielding braid | 70 % | Sheath diameter, max. | 6.5 mm |
| Sheath diameter, min. | 6.1 mm | Sheathing colour | green (RAL 6018) |
| Sheathing material thickness | 0.5 mm | Shielding | S/FTP |
| Shielding braid thickness | | Standard designations | S/FTP, IE-7CC4x2xAWG26/7-PVC LI02YSCY PIMF E130266 (UL) AWM STYLE 2879 80°C 30V |
| | 0.1 mm | Wire core insulation thickness | 0.25 mm |
| Strands | 7 | Wire pair shielding | Plastic foil, Aluminium foil |
| Wire material | Stranded tin-plated copper wire | | |

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Electrical properties of cable

| | | | |
|--------------------------------|--------------------------------|-------------------------|---|
| Capacity at 1 kHz | 45 nF/km | Category | Cat. 7 (ISO/IEC 11801) |
| Characteristic impedance | 100 \pm 5 Ω at 100MHz | Delay skew | 3 ns/100m |
| Loop resistance | 290 Ω /km | Resistance differential | 3 % |
| Shield attenuation | 80 dB at 600 Mhz | Signal propagation time | 4.5 ns/m |
| Test voltage: wire-wire-shield | | Transfer impedance | 15 m Ω /m at 1 MHz, 10 m Ω /m at 10 MHz, 30 m Ω /m at 30 MHz |
| | 700 V AC | | |

Mechanical and material properties of cable

| | | | |
|---------------------------------|---------------------|--------------------------------|--------------------------------|
| Abrasion resistance | good | 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 |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000830 | ETIM 7.0 | EC003249 |
| ETIM 8.0 | EC003249 | ETIM 9.0 | EC003249 |
| ECLASS 9.0 | 27-06-18-05 | ECLASS 9.1 | 27-06-90-90 |
| ECLASS 10.0 | 27-06-18-01 | ECLASS 11.0 | 27-06-18-01 |
| ECLASS 12.0 | 27-06-18-01 | ECLASS 13.0 | 27-06-18-01 |

Approvals

Approvals



ROHS

Conform

Downloads

| | |
|--------------------|---|
| 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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Drawings

Detailed drawing



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www.weidmueller.com**Accessories****Tools**

The CST with blue blade cartridge produces the best stripping results. The blue double-stage blade cartridge is particularly suited for Ethernet cables. It saves time and also ensures optimal stripping results.

General ordering data

| | | |
|------------|----------------------------|----------------------------|
| Type | IE-CST | Version |
| Order No. | 9204350000 | Tools, Sheathing strippers |
| GTIN (EAN) | 4032248653072 | |
| Qty. | 1 pc(s). | |

Tools

Sheathing stripper for PVC cables

**General ordering data**

| | | |
|------------|----------------------------|----------------------------|
| Type | AM 12 | Version |
| Order No. | 9030060000 | Tools, Sheathing strippers |
| GTIN (EAN) | 4008190337827 | |
| Qty. | 1 pc(s). | |