

Industrial Ethernet IE-C5ES8VG0150A40A40-E

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Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5, 6 and 14
- Cat. 6 throughout_A with **STEADYTEC**® technology
- pre-assembled cables and cables sold by the metre
- Copper and fibre-optic cables
- in IP20 and IP67
- all relevant industrial connections: RJ45, M12, SC, ...
- comprehensive range of accessories

General ordering data

| | |
|------------|--|
| Type | IE-C5ES8VG0150A40A40-E |
| Order No. | 1142800000 |
| Version | System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 15 m |
| GTIN (EAN) | 4032248925995 |
| Qty. | 1 pc(s). |

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Technische Daten

Dimensions and weights

| | | | |
|--------|------|------------|----------|
| Length | 15 m | Net weight | 577.25 g |
|--------|------|------------|----------|

Temperatures

| | | | |
|--------------------------|-----------------|---------------------|-----------------|
| Operating temperature | -40 °C...+80 °C | Storage temperature | -40 °C...+80 °C |
| Installation temperature | -15 °C...+60 °C | | |

Electrical properties

| | |
|-------------------|-------|
| Operating voltage | 125 V |
|-------------------|-------|

Standards

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

Cable structure

| | | | |
|---------------------------|---|---------------------------------------|--|
| Wire material | Stranded tin-plated copper wire | Strands | 7 |
| Cross-section | 4*2*AWG 26/7 - 4*2*0.128 mm ² | Insulation | PE |
| Insulation cross-section | 1 mm | Wire core insulation thickness | 0.25 mm |
| No. of wires | 8 | Arrangement of wire cores | Twisted pair |
| Diameter of wire pair | 2 mm | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| Shielding | SF/UTP | Complete shielding | Aluminium foil, Shielding braid made from copper wiring |
| Shielding braid thickness | 0.1 mm | Overlap of shielding braid | 65 % |
| Material sheath | PVC | Sheath diameter, min. | 5.2 mm |
| Sheath diameter, max. | 5.8 mm | Sheathing colour | green (RAL 6018) |

Electrical properties of cable

| | | | |
|--|--|--------------------------|---------------------|
| Category | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) | Operating voltage | 125 V |
| Test voltage: wire-wire-shield, at RMS 50Hz, 1 min. | 1,000 V | Characteristic impedance | 100 ± 5 Ω at 100MHz |
| Loop resistance | 290 Ω/km | Deviation | 40 ns/100m |
| Resistance differential | 3 % | Transfer impedance | 10 mΩ/m at 10 MHz |
| Capacity at 1 kHz | 47 nF/km | Signal propagation time | 4.85 ns/m |

Mechanical and material properties of cable

| | | | |
|--------------------------------|-------------|---------------------------------|--------------------------------|
| Min. bending radius, once only | 5 *diameter | Min. bending radius, repetitive | 10 *diameter |
| Abrasion resistance | good | Resistance to spread of flame | in accordance with IEC 60332-1 |
| Fire propagation | No | | |

plug

| | | | |
|------------------------|------------|-------------------------|------------|
| Version connector left | RJ45 IP 20 | Version connector right | RJ45 IP 20 |
|------------------------|------------|-------------------------|------------|

Datenblatt**Industrial Ethernet
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Technische Daten**Classifications**

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC001262 | UNSPSC | 26-12-16-06 |
| eClass 5.1 | 27-06-18-02 | eClass 6.2 | 27-06-18-01 |
| eClass 7.1 | 27-06-91-90 | | |

Approvals

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