

**IE-C5ES8VG0500A40A40-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

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
- consistently Cat. 6<sub>A</sub> with **STEADYTEC®** technology
- in IP20 and IP67
- all relevant industrial connections: RJ45, SC, ...
- comprehensive range of accessories

**General ordering data**

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| Version    | System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 50 m |
| Order No.  | <a href="#">8934630500</a>                                                                   |
| Type       | IE-C5ES8VG0500A40A40-E                                                                       |
| GTIN (EAN) | 4050118300819                                                                                |
| Qty.       | 1 pc(s).                                                                                     |

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## Technical data

## Dimensions and weights

|            |         |                 |                |
|------------|---------|-----------------|----------------|
| Length     | 50 m    | Length (inches) | 1,968.504 inch |
| Net weight | 1,867 g |                 |                |

## Temperatures

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

## Environmental Product Compliance

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

## Cable structure

|                                |                                                         |                                       |                                                            |
|--------------------------------|---------------------------------------------------------|---------------------------------------|------------------------------------------------------------|
| Arrangement of wire cores      |                                                         | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
|                                | Twisted pair                                            |                                       |                                                            |
| Complete shielding             | Aluminium foil, Shielding braid made from copper wiring | Cross-section                         | 4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>                   |
| Diameter of wire pair          | 2 mm                                                    | Insulation                            | PE                                                         |
| Insulation cross-section       | 1 mm                                                    | Material sheath                       | PVC                                                        |
| Number of wires                | 8                                                       | Overlap of shielding braid            | 65 %                                                       |
| Sheath diameter, max.          | 5.8 mm                                                  | Sheath diameter, min.                 | 5.2 mm                                                     |
| Sheathing colour               | green (RAL 6018)                                        | Shielding                             | SF/UTP                                                     |
| Shielding braid thickness      | 0.1 mm                                                  | Strands                               | 7                                                          |
| Wire core insulation thickness | 0.25 mm                                                 | Wire material                         | Stranded tin-plated copper wire                            |

## Electrical properties of cable

|                          |                     |                                |                                             |
|--------------------------|---------------------|--------------------------------|---------------------------------------------|
| Capacity at 1 kHz        | 47 nF/km            | Category                       | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) |
| Characteristic impedance | 100 ± 5 Ω at 100MHz | Deviation                      | 40 ns/100m                                  |
| Loop resistance          | 290 Ω/km            | Resistance differential        | 3 %                                         |
| Signal propagation time  | 4.85 ns/m           | Test voltage: wire-wire-shield | 700 V AC                                    |
| Transfer impedance       | 10 mΩ/m at 10 MHz   |                                |                                             |

## Mechanical and material properties of cable

|                                |                                |                                 |                     |
|--------------------------------|--------------------------------|---------------------------------|---------------------|
| Abrasion resistance            | good                           | Fire propagation                | No                  |
| 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

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| 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 | ECLASS 11.0 | 27-06-03-08 |

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### Approvals

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

### Downloads

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| Engineering Data   | <a href="#">STEP</a>                                               |
| User Documentation | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a> |