

**IE-C6ES8UG0012A20A20-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.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), PUR, 1.2 m |
| Order No.  | <a href="#">1506870012</a>                                                                                       |
| Type       | IE-C6ES8UG0012A20A20-E                                                                                           |
| GTIN (EAN) | 4050118394047                                                                                                    |
| Qty.       | 1 pc(s).                                                                                                         |

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## Technical data

## Dimensions and weights

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Length     | 1.2 m | Length (inches) | 47.244 inch |
| Net weight | 79 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 specific standards

|                        |                           |                                        |                                       |
|------------------------|---------------------------|----------------------------------------|---------------------------------------|
| Corrosiveness of fumes | to IEC 60754-2            | Generic communication cable facilities | EN 50173-1:2007, ISO / IEC 11801:2002 |
| Standard, assembly     | UL-Style 20963 (80°C/30V) |                                        |                                       |

## Cable structure

|                           |                                         |                                       |                                                            |
|---------------------------|-----------------------------------------|---------------------------------------|------------------------------------------------------------|
| Arrangement of wire cores | Twisted pair                            | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| Complete shielding        | Shielding braid made from copper wiring | Cross-section                         | 4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>                   |
| Insulation                | PE                                      | Insulation cross-section              | 1.03 mm                                                    |
| Material sheath           | PUR                                     | Sheath diameter, max.                 | 6.6 mm                                                     |
| Sheath diameter, min.     | 6.2 mm                                  | Sheathing colour                      | green (RAL 6018)                                           |
| Shielding                 | S/FTP                                   | Shielding braid thickness             | 0.1 mm                                                     |
| Standard designations     | S/FTP, LIO2YSC11Y 4x2x0.15 PIMF FRNC GN | Strands                               | 7                                                          |
| Wire material             | Stranded tin-plated copper wire         | Wire pair shielding                   | Aluminium foil                                             |

## Electrical properties of cable

|                                |                     |                         |                                                        |
|--------------------------------|---------------------|-------------------------|--------------------------------------------------------|
| Capacity at 1 kHz              | 45 nF/km            | Category                | Cat.6A / Class E <sub>A</sub> (ISO/IEC 11801 2010)     |
| Characteristic impedance       | 100 ± 5 Ω at 100MHz | Deviation               | 3 ns/100m                                              |
| Loop resistance                | 290 Ω/km            | Signal propagation time | 4.5 ns/m                                               |
| Test voltage: wire-wire-shield | 700 V AC            | Transfer impedance      | 15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz |

## Mechanical and material properties of cable

|                                 |                                        |                                |                                |
|---------------------------------|----------------------------------------|--------------------------------|--------------------------------|
| Abrasion resistance             | very good                              | Corrosiveness of fumes         | to IEC 60754-2                 |
| Halogen                         | halogen-free, according to IEC 60754-2 | Min. bending radius, once only | 5 x cable diameter             |
| Min. bending radius, repetitive | 10 x cable diameter                    | Pulling force                  | ≤ 100 N                        |
| Resistance to oils              | in accordance with IEC 60811-2-1       | Resistance to spread of flame  | in accordance with IEC 60332-1 |

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

**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> |