Data sheet

# IE-C6ES8UG0018A20A20-E

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

www.weidmueller.com

## General ordering data

| | |
|---|---|
| Version | System cable, RJ45 IP 20, RJ45 IP 20, Cat.6A / Class EA (ISO/IEC 11801 2010), PUR, 1.8 m |
| Order No. | 1506870018 |
| Type | IE-C6ES8UG0018A20A20-E |
| GTIN (EAN) | 4050118393774 |
| Qty. | 1 items |

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# Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Length | 1.8 m | Length (inches) | 70.8661 inch |
| Net weight | 105 g | | |

### Temperatures

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

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 67cf1078-beca-4687-860b-dc475a6ec24a |

### Cable specific standards

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

### Cable structure

| | | | |
|---|---|---|---|
| Strands | 7 | Sheathing colour | green (RAL 6018) |
| Standard designations | S/FTP, LIO2YSC11Y 4x2x0.15 PIMF FRNC GN | Cross-section | 4*2*AWG 26/7 - 4*2*0.128 mm² |
| Shielding | S/FTP | Insulation cross-section | 1.03 mm |
| Insulation | PE | Sheath diameter, max. | 6.5 mm |
| Sheath diameter, min. | 6.1 mm | Material sheath | PUR |
| Wire pair shielding | Aluminium foil | Arrangement of wire cores | Twisted pair |
| Complete shielding | Shielding braid made from copper wiring | Wire material | Stranded tin-plated copper wire |
| Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown | Shielding braid thickness | 0.1 mm |

### Electrical properties of cable

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

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### Mechanical and material properties of cable

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

### Plug

| | | | |
|---|---|---|---|
| Plug right | RJ45, IP20, male contact, straight, Zinc diecast, shielded | Plug left | RJ45, IP20, male contact, straight, Zinc diecast, shielded |

### Plug, left

| | |
|---|---|
| Plug left | RJ45, IP20, male contact, straight, Zinc diecast, shielded |

### Plug, right

| | |
|---|---|
| Plug right | RJ45, IP20, male contact, straight, Zinc diecast, 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 | | |