

Industrial Ethernet IE-C5DD4UG0015MCAA20-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



Assembled IE cables, PROFINET, Cat. 5, PUR, green

General ordering data

| | |
|------------|--|
| Type | IE-C5DD4UG0015MCAA20-E |
| Order No. | 1059760015 |
| Version | Dragline cable, PROFINET, M12 D-code – IP 67 angled pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 1.5 m |
| GTIN (EAN) | 4032248808090 |
| Qty. | 1 pc(s). |

Industrial Ethernet IE-C5DD4UG0015MCAA20-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Dimensions and weights

| | | | |
|------------|-------|--------------------------|------------|
| Length | 1.5 m | Length (inches) | 0.059 inch |
| Net weight | 120 g | Insulation cross-section | 1.5 mm |

Temperatures

| | | | |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 70 °C | Operating temperature, min. | -40 °C |
| Storage temperature, max. | 70 °C | Storage temperature, min. | -50 °C |
| Operating temperature | -40 °C...70 °C | Storage temperature | -50 °C...70 °C |
| Installation temperature | -20 °C...60 °C | | |

Environmental Product Compliance

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

Electrical properties

| | |
|---------------------|-----------|
| Insulation strength | 500,000 Ω |
|---------------------|-----------|

Standards

| | | | |
|-------------------------|---------------------------------|-------------------------------|---|
| Connector standard | IEC 61076-2-101, IEC 60603-7-51 | Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) |
| Standard, wire material | DIN EN 13602 Cu-ETP-A | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |
| Certificate no. (cULus) | E316369 | | |

Cable structure

| | | | |
|--------------------------------|---------------------------------|---------------------------------------|---|
| Wire material | Stranded tin-plated copper wire | Standard designations | 2YH(ST)C11Y 2x2x0.75/1.5-100 LI VZN GN FRNC |
| Strands | 7 | Cross-section | 4*AWG 22/7 - 0.36 mm ² |
| Insulation | PE | Insulation cross-section | 1.5 mm |
| Wire core insulation thickness | 0.38 mm | No. of wires | 4 |
| Arrangement of wire cores | Star-quad | Colour sequence or wires - wire pairs | white, yellow, blue, orange |
| Diameter of inner sheathing | 3.9 mm | Filler | As central element |
| Shielding | SF/UTP | Complete shielding | Aluminium foil, Shielding braid made from copper wiring |
| Shielding braid thickness | 0.13 mm | Overlap of shielding braid | 85 % |
| Material sheath | PUR | Sheath diameter, min. | 6.3 mm |
| Sheath diameter, max. | 6.7 mm | Sheathing material thickness | 0.9 mm |
| Sheathing colour | green (RAL 6018) | | |

Electrical properties of cable

| | | | |
|--------------------------------|---|-------------------------------|-------------------------|
| Category | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) | Operating voltage (UL rating) | 600 V undefined |
| Test voltage: wire-wire-shield | 2000 V _{eff} , 50 Hz, 1 min | Characteristic impedance | 100 ± 15 Ω at 1-100 MHz |
| Loop resistance | 120 Ω/km | Deviation | 40 ns/100m |
| Resistance differential | 3 % | Transfer impedance | 20 mΩ/m at 10 MHz |
| Insulation strength | 500,000 Ω | Capacity at 1 kHz | 52 nF/km |
| Signal propagation time | 5.3 ns/m | Speed | 180 m/min |

Creation date March 7, 2019 10:36:27 AM CET

**Industrial Ethernet
IE-C5DD4UG0015MCAA20-E**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Technical data
Mechanical and material properties of cable

| | | | |
|---------------------------------|----------------------------------|--------------------------------|--|
| Bending cycles | 3 Mio | Min. bending radius, once only | 5 x cable diameter |
| Min. bending radius, repetitive | 7.5 x cable diameter | Pulling force | ≤ 150 N |
| Speed | 180 m/min | Acceleration | 4 m/s ² |
| Abrasion resistance | very good | Resistance to spread of flame | in accordance with IEC 60332-1 |
| Resistance to oils | in accordance with IEC 60811-2-1 | UV-resistant | Yes |
| Silicone-free | Yes | Halogen | halogen-free, according to IEC 60754-2 |
| Fire propagation | No | | |

plug

| | | | |
|----------------|-------------------------------|-----------------|------------|
| Connector left | M12 D-code – IP 67 angled pin | Connector right | RJ45 IP 20 |
|----------------|-------------------------------|-----------------|------------|

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000830 | ETIM 4.0 | EC000830 |
| ETIM 6.0 | EC002599 | eClass 6.2 | 27-06-91-90 |
| eClass 7.1 | 27-06-91-90 | eClass 8.1 | 27-06-91-90 |
| eClass 9.0 | 27-06-03-08 | eClass 9.1 | 27-06-03-08 |

Approvals

Approvals



ROHS Conform

Downloads

| | |
|--------------------|---|
| Brochure/Catalogue | FL FIELDWIRING EN PI PROFINET CABLING EN |
| User Documentation | MAN IE GUIDE DE MAN IE GUIDE EN |

Data sheet**Industrial Ethernet
IE-C5DD4UG0015MCAA20-E**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

| RJ45 | | M12 |
|------|--------|-----|
| 1 | yellow | 1 |
| 3 | white | 2 |
| 2 | orange | 3 |
| 6 | blue | 4 |
