

## IE-C5DS4VG0100MCSA20-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, M12 D-code - IP 67 straight pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 10 m
Order No.	<a href="#">1102200100</a>
Type	IE-C5DS4VG0100MCSA20-E
GTIN (EAN)	4050118315721
Qty.	1 pc(s).

Creation date March 23, 2021 12:12:17 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

## IE-C5DS4VG0100MCSA20-E

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

Length	10 m	Length (inches)	393.701 inch
Net weight	698 g		

## Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-40 °C...70 °C
Installation temperature	-20 °C...60 °C		

## Environmental Product Compliance

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

## Cable specific standards

Standard, additional standards	UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8	Standard, assembly	UL-Style 21694
Standard, insulating material	DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3)	Standard, shielding material	DIN EN 13602 Cu-ETP- A..B
Standard, wire material	DIN EN 13602 Cu-ETP-A		

## Electrical properties

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

## Cable structure

Arrangement of wire cores	Star-quad	Colour sequence or wires - wire pairs	white, yellow, blue, orange
Complete shielding	Aluminium foil, Shielding braid made from copper wiring	Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Diameter of inner sheathing	3.9 mm	Filler	As central element
Insulation	PE	Insulation cross-section	1.5 mm
Material sheath	PVC	Number of wires	4
Overlap of shielding braid	85 %	Sheath diameter, max.	6.7 mm
Sheath diameter, min.	6.3 mm	Sheathing colour	green (RAL 6018)
Sheathing material thickness	0.9 mm	Shielding	SF/UTP
Shielding braid thickness		Standard designations	2YY(ST)CY 2x2x0,75/1,5-100 LI VZN GN
Strands	0.13 mm 7	Wire material	Stranded tin-plated copper wire

## Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)		
Characteristic impedance	100 ± 15 Ω at 1-100 MHz		
Insulation strength	500,000 Ω		
Loop resistance	120 Ω/km		
Operating voltage (UL rating)	Operating voltage	600 V	
Operating voltage (UL rating)	600 V undefined		
Operating voltage, UL	600 V		
Signal propagation time	5.3 ns/m		
Test voltage: wire-wire-shield	2000 V <sub>eff</sub> , 50 Hz, 1 min		

Creation date March 23, 2021 12:12:17 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

## IE-C5DS4VG0100MCSA20-E

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

www.weidmueller.com

## Technical data

Transfer impedance 20 mΩ/m at 10 MHz

### Mechanical and material properties of cable

Abrasion resistance	good	Min. bending radius, once only	3.5 *diameter
Min. bending radius, repetitive	7.5 x cable diameter	Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1685

### plug

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

### Rating

Insulation strength 500,000 Ω

### 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

User Documentation [MAN IE GUIDE DE](#)  
[MAN IE GUIDE EN](#)