Industrial Ethernet
IE-C5DS4VG0200MCSA20-E

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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
- Cat. 6 throughout$_A$ with ***STEADY****TEC*® technolgy
- pre-assembled cables and cables sold by the metre
- Copper and fibre-optic cables
- in IP20 and IP67
- all relevant industrial connections: RJ45, M12, SC, ...
- comprehensive range of accessories

General ordering data

Available until	2014-05-20
Type	IE-C5DS4VG0200MCSA20-E
Order No.	1102200200
Version	System cable, M12 D-code – IP 67 straight pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 20 m
GTIN (EAN)	4050118009057
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	20 m	Length (inches)	0.787 inch
Net weight	1,376 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.	-40 °C
Operating temperature	-40 °C...70 °C	Storage temperature	-40 °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

Standard, assembly	UL-Style 21694	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
Standard, additional standards	UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8		

Cable structure

Wire material	Stranded tin-plated copper wire	Standard designations	2YY(ST)CY 2x2x0,75/1,5-100 LI VZN GN
Strands	7	Cross-section	4*AWG 22/7 - 0.36 mm²
Insulation	PE	Insulation cross-section	1.5 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	PVC
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	Transfer impedance	20 mΩ/m at 10 MHz
Insulation strength	500,000 Ω	Signal propagation time	5.3 ns/m

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Mechanical and material properties of cable

Min. bending radius, once only	3.5 *diameter	Min. bending radius, repetitive	7.5 x cable diameter
Abrasion resistance	good	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

Classifications

ETIM 3.0	EC001262	ETIM 6.0	EC002599
UNSPSC	26-12-16-06	eClass 5.1	27-06-19-01
eClass 6.2	27-06-03-90	eClass 9.0	27-06-03-08
eClass 9.1	27-06-03-08		

Approvals

ROHS	Conform

Downloads

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