

Industrial Ethernet IE-C5DS4VG0450A60A60-E

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General ordering data

Type	IE-C5DS4VG0450A60A60-E
Order No.	1522 100450
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 45 m
GTIN (EAN)	4050118464276
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	45 m	Length (inches)	1.772 inch
Net weight	1,000 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
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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
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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 mm ²
Insulation	PE	Insulation cross-section	1.5 mm
Number 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

Data sheet

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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	RJ45 IP 20	Connector right	RJ45 IP 20
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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	UNSPSC	26-12-16-06

Approvals

ROHS	Conform
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Downloads

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

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Drawings**Wiring**

RJ45		RJ45
1	yellow	1
2	orange	2
3	white	3
6	blue	6
