



- System cable for industrial areas
- CAT6A network cable, structure: 4 x 2 x AWG23/1 shielded
- Temperature range -60 °C to +80 °C
- Outer jacket material: PUR FHF – flame retardant, halogen-free

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The VB-CAM-CAT6A-SKD01-T Industrial is a system cable for connecting digital camera systems in industrial environments. Thanks to its PUR outer jacket, the cable is very robust and therefore ideally suited to the special conditions found in industrial environments. The cable is a high-speed cable for industrial Ethernet applications and is suitable for permanent installation in dry, wet or damp rooms. It meets the transmission characteristics of category 6A according to IEC 61156-5 Ed. 2 even at -60 °C. The cable has excellent mechanical strength, good resistance to oil and lubricants, and is halogen-free.

Technical Data

General

Version	CCTV cable
Description	System cable for digital industrial CCTV systems
Application areas	IEEE 802.3: Ethernet 10Base-T; Fast Ethernet 100Base-T; Gigabit Ethernet 1000Base-T; 10GBase-T IEEE 802.5: 16 MB; ISDN ; FDDI ; ATM ; cable sharing IEEE 802.3at: suitable for PoE
Standards	EN 50288-10-1; IEC 61156-5; EN 50173; ISO/IEC 11801 2. issue; EN 60332-1-2; IEC 60754-2; UL AWM 21586
RoHS Directive	2011/65/EU

Electrical Data

Loop resistance	max. 115 ohms/km according to VDE 0812
Insulation resistance	min. 5 GOhm x km at +20 °C
Insulation resistance	nom. 45 nF/km
Characteristic impedance at 100 MHz	100 ohms ± 5 ohms
Test voltage	700 V/AC
Propagation velocity	ca. 0.78 c
Signal propagation time	max. 425 ns/100 m
Runtime difference	< 8 ns/100 m
Shield attenuation up to 1000 MHz	> 85 dB
Coupling attenuation	> 90 dB
Coupling resistance	< 5 mOhm/m at 10 MHz

Ambient Conditions

Resistance	According to IEC 60811-2-1 (IRM 902, 4 h at 70 °C); UV-resistant
Temperature range cable fixed installation	-60 °C to +80 °C

Ambient Conditions

Temperature range cable during installation	-10 °C to +50 °C
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Mechanical Data

Outer and inner jacket	PUR FHF – polyurethane
Wire jacket colour	yellow green, RAL 6018
Outer diameter, cable	9.1 ± 0.2 mm
Thickness cable	1 ± 0.1 mm
Conductor	AWG 22/1, blank
Insulation, conductor	SFS-PE foamed
Outer diameter, wire	1.52 ± 0.02 mm
Colour code	according to IEC 708-1
Pair shielding	Plastic laminated aluminium foil
Shielding	Copper, tinned wire 0.10, optical cov. app. 85%
Bending radius	10 x outer diameter during installation 5 x outer diameter after installation
Max. tensile strength	140 N
Pressure resistance at 20 °C	14 bar

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