



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

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The VB-CAM-CAT6-SKD02-T Ex is a system cable for connecting digital camera systems and was developed for use in hazardous areas. It complies with the requirements for cables and wires in accordance with the DIN EN 60079-14 standard. The cable can be fed directly into rooms with pressure-resistant encapsulation using a suitable cable entry. The VB-CAM-CAT6-SKD02-T Ex is a high-speed cable for industrial Ethernet applications and is suitable for permanent installation in dry, wet or damp rooms. The cable meets the transmission characteristics of category 6A according to IEC 61156-5 Ed. 2 even at -60 °C. It has excellent mechanical stress resistance, good resistance to oil and lubricants, and is halogen-free.

Technical Data

General	
Version	CCTV cable
Description	System cable for digital hazardous area 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
Explosion Protection	
Standards	EN 60079-14:2014; IEC 60079-14:2013; 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. 140 ohms/km according to VDE 0812
Insulation resistance	min. 5 GOhm x km at +20 °C
Insulation resistance	nom. 50 nF/km
Characteristic impedance at 100 MHz	100 ohms ± 5 ohms
Test voltage	1000 V/AC
Signal propagation time	5.3 ns/m
Ambient Conditions	
Resistance	According to IEC 60811-2-1 (IRM 902, 4 h at 70 °C); UV and sludge resistant, flame retardant
Temperature range cable fixed installation	-60 °C to +80 °C
Temperature range cable during installation	-30 °C to +80 °C

Mechanical Data

Outer and inner jacket	PUR FHF – polyurethane
Wire jacket colour	yellow green, RAL 6018
Outer diameter, cable	8.9 ± 0.3 mm
Conductor	AWG 23/1, blank
Insulation, conductor	SFS-PE foamed
Outer diameter, wire	1.43 ± 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	8 x outer diameter during installation 4 x outer diameter after installation
Weight	102 kg/km

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