



- Armoured 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

MY R. STAHL



The VB-CAM-CAT6-ARM-ASKD02-T Ex is an armoured system cable for connecting digital camera systems and has been 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-ARM-ASKD02-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	Armoured 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	<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	max. 5.3 ns/m

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
Temperature range cable during installation	-30 °C to +80 °C

Mechanical Data

Outer and inner jacket	PUR – polyurethane
Wire jacket colour	yellow green, RAL 6018
Outer diameter, cable	12 ± 0.4 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	20 x outer diameter during installation 10 x outer diameter after installation
Mechanical protection	Steel braid with wire 0.2
Weight	179 kg/km

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