


SAMCON SKA02

Sectional View

1. Jacket
2. Video signal cable
3. Control signal cable
4. Power elements



SAMCON[®] SKA02

The cable **SKA02** is a system cable for connecting analog camera systems and was particularly developed to be used in hazardous areas. It meets the requirements for cables and wires according to DIN EN 60079-14. When using the applicable cable gland, it is possible to insert the cable directly into flameproof enclosures.

Data.

Standards:

EN 60079-14:2014 „Electrical installations design, selection and erection“ (q.v. declaration of conformity)
 IEC 60079-14:2013 „Electrical installations design, selection and erection“ (q.v. declaration of conformity)
 EN 50288-10-1; IEC 61156-5 ; EN 50173 ; ISO/IEC 11801 2. edition
 EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586

Hazardous areas characteristics:

The cable meets the requirements for cables in hazardous areas to avoid inter-zone gas-transfer in accordance to IEC/EN 60079-14 Appendix E.

Chemical characteristics:

The cable is flame retardant in accordance with IEC 60332-1-2 1 KW flame.
 The cable is oil resistant according to VDE 0472 Section 803.
 The cable is halogenfree, microben and hydrolysis resistant.
 The cable is UV-resistant.

Labeling:

„SAMCON GmbH SKA02 +Art.-Nr. 0001004033 / Koax 75OHM 2x2x0,25mm² +4x0,75mm²“

Design:

Outer jacket:	PUR
Color outer sheath:	black, similar to RAL 9005 matt
Color of the printing:	TSD white
Outer diameter:	ca. 9.4 ± 0.30 mm
Twisting:	coax. + Twisted Pair + Power + fleece banding + sheath


Video signal cable:

Typ:	coaxial
Core:	19x0.127 mm tinnend = AWG24
Dielectric material:	Polyolefine
Core diameter dielectric:	2.80 ± 0.10 mm
Color dielectric:	nature
Shield:	plated copper braid, 90% density
Sheath material:	TPE-black
Sheath diameter:	4.00 mm
Impedance:	75 Ohm
Capacitance:	58 pF/m


Control signal cable:

Typ:	Twisted Pair
Conductor:	2x2x0.25 mm ² closed Cu shielded per conductor: plain copper 19x0.127 mm; br,gb; or,gn double wrapping foil
Sheath:	


Power elements:

Typ:	single conductors
Conductors:	4x0.75 mm ² per conductor: 42x0.15 mm blank
Isolation:	Polyolefine
Color of conductors:	rd, bk, gr, wh



Mechanical characteristics:

Temperature range:	-40°C to +80°C
Fix installed:	-40°C to +80°C
During installation:	-20°C to +80°C
Bending radius:	>12 x diameter



Electrical characteristics:

Conductor resistance Koax/ 0.25 mm ² :	Max. 78 Ohm / km
Conductor resistance Koax/ 0.75 mm ² :	Max. 28 Ohm / km
Insulation resistance:	>200 Ohm x km
Capacity:	61 pF / m
Characteristic impedance:	73 Ohm
Test voltage Sparktest:	2.5 kV
Test voltage A/C:	0.8 kV

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