



FABBRICA CAVI - ANTENNE - ACCESSORI TV

# SGM 50892 GAS

BROADCASTING VIDEO CABLE

DIGITAL 6 Gb/s UHDTV - 3 Gb/s HD-SDI

Class CPR **E<sub>ca</sub>**

CATEGORY

**A**  
EN 50117

CU 7 x 0,40 mm    PEG ø 4,95 mm    LTA ø 5,05 mm    CS ø 5,55 mm    PVC2 ø 6,95 mm



## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCT.</b>	PLAIN COPPER	7 x 0,40 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 4,95 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALUMINIUM + POLYESTER + ALUMINIUM TAPE - COVERAGE	h. 18 mm 100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER - COVERAGE	144 x 0,12 mm 89%
<b>E</b>	<b>SHEATH</b>	SOFT NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 6,95 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>## METER ## SIVA SGM 50892 75 Ohm CATEGORY A</b>	

### MINIMUM BENDING RADIUS ( mm )

- SINGLE	ø EXTERNAL X 5
- REPEATED	ø EXTERNAL X 10
<b>TEMPERATURE RANGE</b>	-35 °C / +70 °C

### CABLE WEIGHT ( Kg/Km )

- COPPER	27,1
- PLASTIC	28,7
- TOTAL	57,5

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE</b>	75 ± 3 Ohm	<b>RESISTANCE</b>	
<b>CAPACITANCE</b>	53 pF/m	- INNER CONDUCT.	20,5 Ohm/Km
<b>VELOCITY RATIO</b>	84%	- BRAID	9,6 Ohm/Km
		<b>TENSION</b>	
		- SHEATH	3,5 kV
		<b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

5 MHz	1,5	135 MHz	6,9	750 MHz	17,2	2500 MHz	34,1
71,5 MHz	5,1	180 MHz	8,3	1000 MHz	20,5	3000 MHz	38,2
88,5 MHz	5,6	360 MHz	11,7	1500 MHz	25,6	6000 MHz	57,8

### MAXIMUM TRANSMISSION DISTANCE CALCULATED - meters

SMPTE ST 259				SMPTE ST 292	SMPTE ST 424	SMPTE ST		
143 Mb/s	177 Mb/s	270 Mb/s	360 Mb/s	1,5 Gb/s	3,0 Gb/s	425-4	2081-1	2082-1
Composite NTSC	Composite PAL	Comp. 4:3 SD-SDI	Widescreen 16:9 SD-SDI	HD-SDI 1080i 1,5G-SDI	HD-SDI 1080p 3G-SDI	3,0 Gb/s	6,0 Gb/s	12,0 Gb/s
						UHDTV1		
						UHDTV2		
588	536	435	361	116	78	156	105	69

### STRUCTURAL RETURN LOSS dB

30 ÷ 470 MHz	>27	3000 ÷ 4500 MHz	>18
470 ÷ 862 MHz	>25	4500 ÷ 6000 MHz	>14
862 ÷ 2150 MHz	>22	6000 ÷ 12000 MHz	-
2150 ÷ 3000 MHz	>20		

### SCREENING EFFECTIVENESS dB

EN 50117 STANDARD		
5 ÷ 30 MHz	<5	mOhm/m
30 ÷ 1000 MHz	>90	dB
1000 ÷ 2000 MHz	>80	dB
2000 ÷ 3000 MHz	>70	dB

The producer reserves himself to make modification on the item without any notice.