



FABBRICA CAVI - ANTENNE - ACCESSORI TV

SAT 51900 ZH

BROADCASTING VIDEO CABLE

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

COMPLIANCE IEC 60754-1 IEC 60754-2 IEC 61034-2

Class CPR **E_{ca}**

CATEGORY

A+

EN 50117

CU ø 1,15 mm PEG ø 5,10 mm LTA ø 5,20 mm CS ø 5,60 mm LSZH ø 6,80 mm



A | B | C | D | E

MECHANICAL DATA

A	INNER CONDUCT.	PLAIN COPPER	ø 1,15 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 5,10 ± 0,10 mm
C	SHIELD	ALUMINIUM + POLYESTER + ALUMINIUM TAPE	h. 18 mm
	- COVERAGE		100%
D	BRAID	TINNED COPPER	216 x 0,10 mm
	- COVERAGE		90%
E	SHEATH	FLAME RETARDANT NON-CORROSIVE THERMOPLASTIC FREE OF HALOGENS	ø 6,80 ± 0,10 mm
	- COLOUR	VIOLET - RAL 4001	
	- PRINTING	## METER ## SIVA SAT 51900 ZH HD PRO CABLE 75 OHM LSZH MADE IN ITALY CE 56 WEEK/YEAR EN 50575:2014 + A1:2016 Eca	

MINIMUM BENDING RADIUS (mm)

- SINGLE	ø EXTERNAL X 5
- REPEATED	ø EXTERNAL X 10
TEMPERATURE RANGE	-40 °C / +80 °C

CABLE WEIGHT (Kg/Km)

- COPPER	26,0
- PLASTIC	26,5
- TOTAL	54,2

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE	75 ± 3 Ohm	RESISTANCE	
CAPACITANCE	53 pF/m	- INNER CONDUCT.	16,6 Ohm/Km
VELOCITY RATIO	84%	- BRAID	9,5 Ohm/Km
		TENSION	
		- SHEATH	3,0 kV
		SPARK TESTING	

ATTENUATIONS dB/100 m.

5 MHz	1,0	135 MHz	6,0	750 MHz	15,0	2500 MHz	29,4
71,5 MHz	4,3	180 MHz	7,2	1000 MHz	17,5	3000 MHz	33,1
88,5 MHz	4,8	360 MHz	10,3	1500 MHz	22,2	6000 MHz	51,3

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		
698	625	500	417	133	90	180	121	78

STRUCTURAL RETURN LOSS dB

30 ÷ 470 MHz	>29	3000 ÷ 4500 MHz	>20
470 ÷ 862 MHz	>27	4500 ÷ 6000 MHz	>15
862 ÷ 2150 MHz	>24	6000 ÷ 12000 MHz	-
2150 ÷ 3000 MHz	>21		

SCREENING EFFECTIVENESS dB

EN 50117 STANDARD			
5 ÷ 30 MHz	<5	mOhm/m	
30 ÷ 1000 MHz	>95	dB	
1000 ÷ 2000 MHz	>90	dB	
2000 ÷ 3000 MHz	>80	dB	

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