

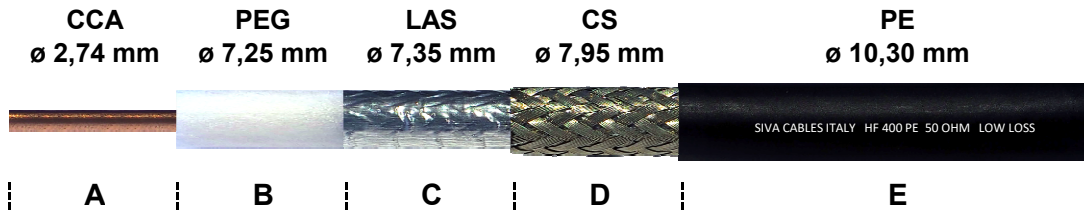


FABBRICA CAVI - ANTENNE - ACCESSORI TV

# HF 400 PE

HIGH PERFORMANCE BROADBAND LOW LOSS 50 OHM COAXIAL  
COMMUNICATION CABLE DESIGNED FOR USE IN WIRELESS APPLICATIONS

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



## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER CLAD ALUMINIUM	.....	<b>ø 2,74 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE		<b>ø 7,25 ± 0,18 mm</b>
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE		<b>h. 27 mm</b>
		- COVERAGE	.....	<b>100%</b>
<b>D</b>	<b>BRAID</b>	TINNED COPPER	.....	<b>168 x 0,15 mm</b>
		- COVERAGE	.....	<b>90%</b>
<b>E</b>	<b>SHEATH</b>	CARBON BLACK FREE OF HALOGENS	.....	<b>ø 10,30 ± 0,18 mm</b>
		UV RESISTANT POLYETHYLENE		
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ## HF 400 PE HIGH PERFORMANCE LOW LOSS CABLE 50 OHM</b>		
		<b>2,74 / 7,25 / 10,30 MADE IN ITALY CE 58 WEEK/YEAR</b>		

### MINIMUM BENDING RADIUS ( mm )

- **SINGLE** ø EXTERNAL X 5
- **REPEATED** ø EXTERNAL X 10

### CABLE WEIGHT ( Kg/Km )

- **COPPER** 35,3
- **ALUMINIUM** 21,4
- **PLASTIC** 44,2
- **TOTAL** 104,2

**TEMPERATURE RANGE** -40 °C / +75 °C

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE @ 200 MHz</b>	<b>50 ± 1,5 Ohm</b>	<b>RESISTANCE</b>	
		- <b>INNER CONDUCT.</b>	4,7 Ohm/Km
<b>CAPACITANCE</b>	80 pF/m	- <b>BRAID</b>	5,0 Ohm/Km
<b>VELOCITY RATIO</b>	84%	<b>TENSION</b>	
		- <b>SHEATH</b>	8,5 kV
		- <b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	1,0	8202
10	MHz	1,4	5800
30	MHz	2,2	3349
50	MHz	2,8	2594
150	MHz	4,7	1498
220	MHz	5,9	1237
450	MHz	8,6	865

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
600	MHz	10,0	749
800	MHz	11,6	648
900	MHz	12,4	611
1000	MHz	13,1	580
1500	MHz	16,3	474
1800	MHz	18,1	432
2000	MHz	19,2	410

		<b>dB</b>	<b>W</b>
2500	MHz	21,5	367
3000	MHz	23,6	335
5200	MHz	32,8	254
5800	MHz	34,8	241
6000	MHz	35,4	237
8000	MHz	41,9	205
10000	MHz	48,3	183

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>34	3000 ÷ 4000	MHz	>22
450 ÷ 1000	MHz	>30	4000 ÷ 5800	MHz	>18
1000 ÷ 2000	MHz	>28	5800 ÷ 8000	MHz	>16
2000 ÷ 3000	MHz	>24	8000 ÷ 10000	MHz	>15

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>100
900 ÷ 2000	MHz	>95
2000 ÷ 3000	MHz	>85

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