



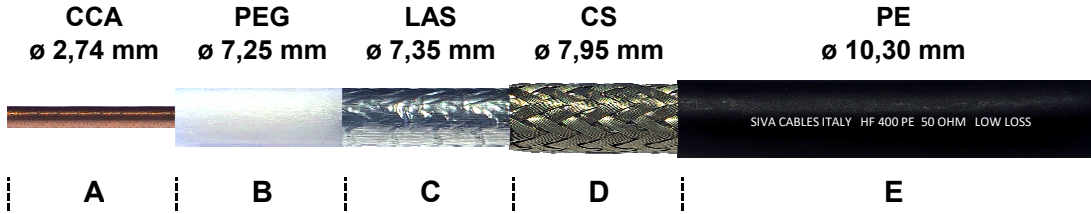
FABBRICA CAVI - ANTENNE - ACCESSORI TV



# 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>192 x 0,15 mm</b>     |
|          |                        | - COVERAGE  | ..... | <b>90%</b>               |
| <b>E</b> | <b>SHEATH</b>          | CARBON BLACK POLYETHYLENE   | ..... | <b>ø 10,30 ± 0,18 mm</b> |
|          | - 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

**TEMPERATURE RANGE**                      -40 °C / +75 °C

### CABLE WEIGHT ( Kg/Km )

- **COPPER**                      56,0
- **PLASTIC**                      44,2
- **TOTAL**                        103,5

## 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 | 1,3       | 5800     |
| 30  | MHz | 2,1       | 3349     |
| 50  | MHz | 2,8       | 2594     |
| 150 | MHz | 4,7       | 1498     |
| 220 | MHz | 5,7       | 1237     |

### MAX. POWER RATING W

|      |     | <b>dB</b> | <b>W</b> |
|------|-----|-----------|----------|
| 450  | MHz | 8,4       | 865      |
| 600  | MHz | 9,8       | 749      |
| 800  | MHz | 11,4      | 648      |
| 900  | MHz | 12,1      | 611      |
| 1000 | MHz | 12,8      | 580      |
| 1500 | MHz | 16,0      | 474      |

|      |     | <b>dB</b> | <b>W</b> |
|------|-----|-----------|----------|
| 1800 | MHz | 17,7      | 432      |
| 2000 | MHz | 18,9      | 410      |
| 2500 | MHz | 21,1      | 367      |
| 3000 | MHz | 23,4      | 335      |
| 5200 | MHz | 32,7      | 254      |
| 5800 | MHz | 34,7      | 241      |

### STRUCTURAL RETURN LOSS dB

|             |     |     |             |     |     |
|-------------|-----|-----|-------------|-----|-----|
| 30 ÷ 450    | MHz | >27 | 2000 ÷ 3000 | MHz | >22 |
| 450 ÷ 1000  | MHz | >26 | 3000 ÷ 4000 | MHz | >21 |
| 1000 ÷ 2000 | MHz | >23 | 4000 ÷ 5800 | MHz | >20 |

### SCREENING EFFECTIVENESS dB

|             |     |     |
|-------------|-----|-----|
| 100 ÷ 900   | MHz | >95 |
| 900 ÷ 2000  | MHz | >85 |
| 2000 ÷ 3000 | MHz | >75 |

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