



FABBRICA CAVI - ANTENNE - ACCESSORI TV

# HF 200 PE

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

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

**CU**      **PEG**      **LAS**      **CS**      **PE**  
 ø 1,13 mm    ø 2,95 mm    ø 3,05 mm    ø 3,30 mm    ø 5,00 mm



|| A || B || C || D || E ||

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	.....	<b>ø 1,13 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	<b>ø 2,95 ± 0,10 mm</b>
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	.....	<b>h. 12 mm</b>
		- COVERAGE	.....	<b>100%</b>
<b>D</b>	<b>BRAID</b>	TINNED COPPER	.....	<b>144 x 0,10 mm</b>
		- COVERAGE	.....	<b>92%</b>
<b>E</b>	<b>SHEATH</b>	CARBON BLACK POLYETHYLENE	.....	<b>ø 5,00 ± 0,10 mm</b>
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ## HF 200 PE HIGH PERFORMANCE LOW LOSS CABLE 50 OHM</b>		
		<b>1,13 / 2,95 / 5,00 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**      19,6
- **PLASTIC**      12,7
- **TOTAL**      33,8

## ELECTRICAL PROPERTIES at 20°C

**IMPEDANCE @ 200 MHz**      **50 ± 1,5 Ohm**

**CAPACITANCE**      80 pF/m

**VELOCITY RATIO**      82%

### RESISTANCE

- **INNER CONDUCT.**      17,2 Ohm/Km
- **BRAID**      12,4 Ohm/Km

### TENSION

- **SHEATH**      5,5 kV
- **SPARK TESTING**

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	2,6	2263
10	MHz	3,6	1600
30	MHz	5,6	924
50	MHz	7,5	716
150	MHz	12,0	413
220	MHz	14,8	341

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	21,7	239
600	MHz	25,1	207
800	MHz	28,9	179
900	MHz	31,4	169
1000	MHz	33,3	160
1500	MHz	40,9	131

		<b>dB</b>	<b>W</b>
1800	MHz	45,0	119
2000	MHz	48,1	113
2500	MHz	53,9	101
3000	MHz	58,6	92
5200	MHz	81,1	70
5800	MHz	85,3	66

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>29	2000 ÷ 3000	MHz	>24
450 ÷ 1000	MHz	>28	3000 ÷ 4000	MHz	>23
1000 ÷ 2000	MHz	>25	4000 ÷ 5800	MHz	>22

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>95
900 ÷ 2000	MHz	>90
2000 ÷ 3000	MHz	>80

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