



FABBRICA CAVI - ANTENNE - ACCESSORI TV

# HF 300 PVC

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

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

**CU**      **PEG**      **LAS**      **CS**      **PVC2**  
 ø 1,78 mm    ø 4,85 mm    ø 4,95 mm    ø 5,45 mm    ø 7,60 mm



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

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	.....	ø 1,78 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	ø 4,85 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	.....	h. 18 mm
		- COVERAGE	.....	100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER	.....	144 x 0,12 mm
		- COVERAGE	.....	82%
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	ø 7,60 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ## HF 300 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM</b>		
		1,78 / 4,85 / 7,60 MADE IN ITALY CE 58 SETT/ANNO EN 50575:2014 + A1:2016 Eca		

### MINIMUM BENDING RADIUS ( mm )

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

TEMPERATURE RANGE -30 °C / +70 °C

### CABLE WEIGHT ( Kg/Km )

- COPPER 38,5
- PLASTIC 39,3
- TOTAL 80,0

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE @ 200 MHz</b>	50 ± 1,5 Ohm	<b>RESISTANCE</b>	
		- INNER CONDUCT.	7,0 Ohm/Km
<b>CAPACITANCE</b>	80 pF/m	- BRAID	11,2 Ohm/Km
<b>VELOCITY RATIO</b>	84%	<b>TENSION</b>	
		- SHEATH	5,5 kV
		- SPARK TESTING	

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,3	5020
10	MHz	1,9	3550
30	MHz	3,0	2050
50	MHz	4,1	1588
150	MHz	6,9	917
220	MHz	8,9	757
450	MHz	13,0	529

### MAX. POWER RATING W

		dB	W
600	MHz	15,1	458
800	MHz	17,4	397
900	MHz	18,8	374
1000	MHz	20,0	355
1500	MHz	24,8	290
1800	MHz	27,2	265
2000	MHz	28,9	251

		dB	W
2500	MHz	33,0	225
3000	MHz	36,5	205
5200	MHz	50,9	156
5800	MHz	54,0	147
6000	MHz	55,2	144
8000	MHz	65,5	126
10000	MHz	75,3	112

### STRUCTURAL RETURN LOSS dB

30 ÷ 450 MHz	>26	3000 ÷ 4000 MHz	>20
450 ÷ 1000 MHz	>25	4000 ÷ 5800 MHz	>19
1000 ÷ 2000 MHz	>22	5800 ÷ 8000 MHz	>18
2000 ÷ 3000 MHz	>21	8000 ÷ 10000 MHz	>17

### 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.