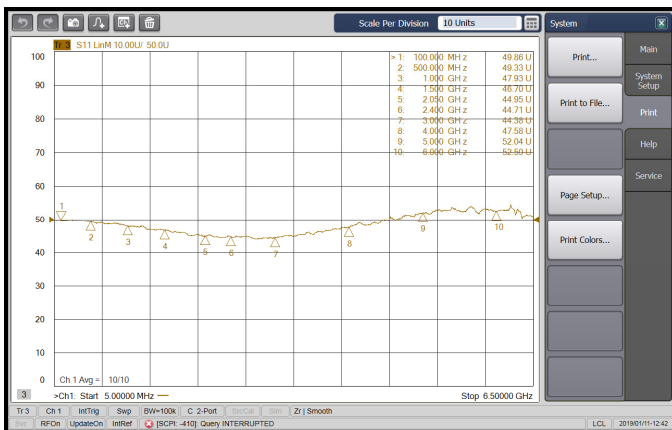


Dear Sirs,

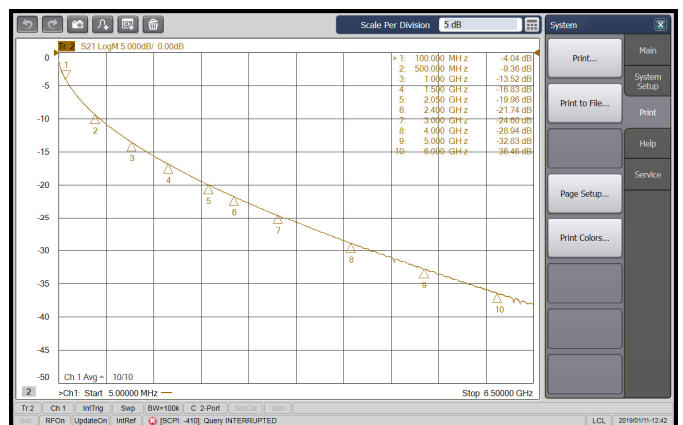
We have the pleasure to inform you, that SIVA introduces in his production, a new range of **HIGH QUALITY WIRELESS 50 OHM LOW LOSS CABLES**.

The code of these cables is **HF ...** and it means **HIGH FREQUENCIES**.

In fact, they have been studied and manufactured with the purpose to have perfect and constant electrical performance till 5 Mhz to 5.8 Ghz.



Impedance graphic



Attenuations graphic

### SKIN – FOAM – SKIN GAS INJECTED DIELECTRIC

Thanks to this extrusion technique, we are able to combine the merits of solid polythene “Duration and resistant to mechanical stress” with the merits of expanded polythene “Low Attenuation”.

The dielectric presents:

A first layer of skin-solid polythene film that seals to the inner conductor allowing protection against humidity.

A second layer of perfectly homogeneous expanded foam cells guaranteeing inner conductor concentricity in the case of curvature and bending.

A third external layer of skin-solid polythene film that protects the cable from humidity ensuring the mechanical and electrical characteristics over time.

### TRIPLEX ALUMINIUM TAPE BONDED TO THE DIELECTRIC

Thanks to this composite aluminum multi-laminated tape we guarantee a screening effectiveness > 90dB, and this tape acts as a second barrier against humidity.

## HF ... PVC

which thanks to its flexibility makes it suitable for indoor installations.

## HF ... PE

For places with high humidity and for underground installations a PE sheath can be used.

It is more rigid but more waterproof and so it is suitable for the external environment.

## HF ... ZH

This particular thermoplastic is used for installation in public places or with high concentration of people such as schools, banks, airports, underground metro, commercial centres, hospitals and so on primarily to ensure safety in case of fire.

The characteristics are the followings:

- Low smoke emissions.
- No emissions of halogen gases.
- No propagation of fire and flame.

They are tested in according to:

**IEC 60754-1:2011** – Test of gases evolved during combustion of materials from cables.

**Part 1: determination of the halogen acid gas content.**

**IEC 60754-2:2011** – Test of gases evolved during combustion of materials from cables.

**Part 2: determination of acidity and conductivity.**

HF coaxial cables are used everywhere high performance and low losses are required, in applications like:

- Jumpers assemblies in Wireless Communications Systems
- Automotive and Marine Antenna solutions ( 5G CBRE, 4G LTE / 3G / 2G )
- Mobile phone networks ( LTE antennas )
- Wireless Internet service provider ( WISP )
- SCADA Telemetry – Supervisory Control and Data Acquisition, like a distributed IT system for electronic monitoring of physical systems
- Railway transmission and control systems
- Broadband transmission
- Oil & Gas
- Military and Defense

We are at your disposal for any further information request and we should be glad to submit you our best offer.

Looking forward to hearing from you we remain

Yours faithfully

SI.VA SRL



FABBRICA CAVI - ANTENNE - ACCESSORI TV



# HF 195 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 0,95 mm    ø 2,80 mm    ø 2,90 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	.....	ø 0,95 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	ø 2,80 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	.....	h. 12 mm
		- COVERAGE	.....	100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER	.....	144 x 0,10 mm
		- COVERAGE	.....	94%
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	ø 5,00 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ##</b> HF 195 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM		
		0,95 / 2,80 / 5,00 MADE IN ITALY CE 58 WEEK/YEAR 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**      16,9
- **PLASTIC**      19,6
- **TOTAL**      38,0

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE @ 200 MHz</b>	<b>50 ± 1,5 Ohm</b>	<b>RESISTANCE</b>	
		- <b>INNER CONDUCT.</b>	25,2 Ohm/Km
<b>CAPACITANCE</b>	84 pF/m	- <b>BRAID</b>	11,9 Ohm/Km
<b>VELOCITY RATIO</b>	80%	<b>TENSION</b>	
		- <b>SHEATH</b>	4,0 kV
		- <b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	2,7	1980
10	MHz	3,6	1400
30	MHz	6,0	808
50	MHz	7,7	626
150	MHz	12,5	361
220	MHz	15,2	298

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	22,2	209
600	MHz	26,0	181
800	MHz	30,3	157
900	MHz	32,2	148
1000	MHz	34,4	140
1500	MHz	43,1	114

		<b>dB</b>	<b>W</b>
1800	MHz	47,6	104
2000	MHz	50,6	99
2500	MHz	56,7	89
3000	MHz	62,4	81
5200	MHz	85,9	61
5800	MHz	91,4	58

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>25	2000 ÷ 3000	MHz	>19
450 ÷ 1000	MHz	>23	3000 ÷ 4000	MHz	>16
1000 ÷ 2000	MHz	>22	4000 ÷ 5800	MHz	>13

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>90
900 ÷ 2000	MHz	>80
2000 ÷ 3000	MHz	>70

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



FABBRICA CAVI - ANTENNE - ACCESSORI TV



# HF 195 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 0,95 mm    ø 2,80 mm    ø 2,90 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 .....	ø 0,95 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 2,80 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	h. 12 mm
		- COVERAGE .....	100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER .....	144 x 0,10 mm
		- COVERAGE .....	94%
<b>E</b>	<b>SHEATH</b>	CARBON BLACK POLYETHYLENE .....	ø 5,00 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>## METER ## HF 195 PE HIGH PERFORMANCE LOW LOSS CABLE 50 OHM</b>	
		<b>0,95 / 2,80 / 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**      16,9
- **PLASTIC**      13,7
- **TOTAL**      32,1

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE @ 200 MHz</b>	<b>50 ± 1,5 Ohm</b>	<b>RESISTANCE</b>	
		- <b>INNER CONDUCT.</b>	25,2 Ohm/Km
<b>CAPACITANCE</b>	84 pF/m	- <b>BRAID</b>	11,9 Ohm/Km
<b>VELOCITY RATIO</b>	80%	<b>TENSION</b>	
		- <b>SHEATH</b>	6,0 kV
		- <b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	2,7	1980
10	MHz	3,6	1400
30	MHz	6,0	808
50	MHz	7,7	626
150	MHz	12,5	361
220	MHz	15,2	298

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	22,2	209
600	MHz	26,0	181
800	MHz	30,3	157
900	MHz	32,2	151
1000	MHz	34,4	140
1500	MHz	43,1	114

		<b>dB</b>	<b>W</b>
1800	MHz	47,6	104
2000	MHz	50,6	99
2500	MHz	56,7	89
3000	MHz	62,4	81
5200	MHz	85,9	61
5800	MHz	91,4	58

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>25	2000 ÷ 3000	MHz	>19
450 ÷ 1000	MHz	>23	3000 ÷ 4000	MHz	>16
1000 ÷ 2000	MHz	>22	4000 ÷ 5800	MHz	>13

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>90
900 ÷ 2000	MHz	>80
2000 ÷ 3000	MHz	>70

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



FABBRICA CAVI - ANTENNE - ACCESSORI TV



# HF 195 FX-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**      **LTA**      **CS**      **PVC2**  
7 x 0,32 mm    ø 2,80 mm    ø 2,90 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>7 x 0,32 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	<b>ø 2,80 ± 0,10 mm</b>
<b>C</b>	<b>SHIELD</b>	ALUMINIUM + POLYESTER + ALUMINIUM 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>94%</b>
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	<b>ø 5,00 ± 0,10 mm</b>
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ## HF 195 FX - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM</b>		
		<b>7x0,32 / 2,80 / 5,00 MADE IN ITALY CE 58 SETT/ANNO EN 50575:2014 + A1:2016 Eca</b>		

### 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**      15,6
- **PLASTIC**      19,7
- **TOTAL**      36,3

## ELECTRICAL PROPERTIES at 20°C

**IMPEDANCE @ 200 MHz**      **50 ± 2 Ohm**

**CAPACITANCE**      84 pF/m

**VELOCITY RATIO**      80%

### RESISTANCE

- **INNER CONDUCT.**      32,0 Ohm/Km
- **BRAID**      11,9 Ohm/Km

### TENSION

- **SHEATH SPARK TESTING**      4,0 kV

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	2,7	1768
10	MHz	3,6	1250
30	MHz	6,3	722
50	MHz	8,1	559
150	MHz	13,1	323
220	MHz	15,9	267

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	23,1	186
600	MHz	27,2	161
800	MHz	31,7	140
900	MHz	33,8	132
1000	MHz	36,1	125
1500	MHz	45,4	102

		<b>dB</b>	<b>W</b>
1800	MHz	50,2	93
2000	MHz	53,3	88
2500	MHz	59,9	80
3000	MHz	65,8	72
5200	MHz	90,3	55
5800	MHz	95,9	52

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>23	2000 ÷ 3000	MHz	>17
450 ÷ 1000	MHz	>21	3000 ÷ 4000	MHz	>14
1000 ÷ 2000	MHz	>20	4000 ÷ 5800	MHz	>11

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>85
900 ÷ 2000	MHz	>75
2000 ÷ 3000	MHz	>65

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



FABBRICA CAVI - ANTENNE - ACCESSORI TV



# HF 200 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 1,13 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>	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	<b>ø 5,00 ± 0,10 mm</b>
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ## HF 200 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM</b>		
		<b>1,13 / 2,95 / 5,00 MADE IN ITALY CE 58 WEEK/YEAR EN 50575:2014 + A1:2016 Eca</b>		

### 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**      19,6
- **PLASTIC**      18,2
- **TOTAL**      39,3

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE @ 200 MHz</b>	<b>50 ± 1,5 Ohm</b>	<b>RESISTANCE</b>	
		- <b>INNER CONDUCT.</b>	17,2 Ohm/Km
<b>CAPACITANCE</b>	80 pF/m	- <b>BRAID</b>	12,4 Ohm/Km
<b>VELOCITY RATIO</b>	82%	<b>TENSION</b>	
		- <b>SHEATH</b>	4,0 kV
		- <b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	2,6	2263
10	MHz	3,5	1600
30	MHz	5,7	924
50	MHz	7,3	716
150	MHz	11,8	413
220	MHz	14,3	341

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	20,8	239
600	MHz	24,3	207
800	MHz	28,5	179
900	MHz	30,2	169
1000	MHz	32,2	160
1500	MHz	40,3	131

		<b>dB</b>	<b>W</b>
1800	MHz	44,6	119
2000	MHz	47,5	113
2500	MHz	52,8	101
3000	MHz	58,1	92
5200	MHz	79,7	70
5800	MHz	84,5	66

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>26	2000 ÷ 3000	MHz	>23
450 ÷ 1000	MHz	>25	3000 ÷ 4000	MHz	>22
1000 ÷ 2000	MHz	>24	4000 ÷ 5800	MHz	>21

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>90
900 ÷ 2000	MHz	>80
2000 ÷ 3000	MHz	>70

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



FABBRICA CAVI - ANTENNE - ACCESSORI TV



# HF 240 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 1,40 mm    ø 3,80 mm    ø 3,90 mm    ø 4,30 mm    ø 6,10 mm



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

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	.....	<b>ø 1,40 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	<b>ø 3,80 ± 0,10 mm</b>
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	.....	<b>h. 15 mm</b>
		- COVERAGE	.....	<b>100%</b>
<b>D</b>	<b>BRAID</b>	TINNED COPPER	.....	<b>128 x 0,10 mm</b>
		- COVERAGE	.....	<b>77%</b>
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	<b>ø 6,10 ± 0,10 mm</b>
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ## HF 240 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM</b>		
		<b>1,40 / 3,80 / 6,10 MADE IN ITALY CE 58 WEEK/YEAR EN 50575:2014 + A1:2016 Eca</b>		

### 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**      23,3
- **PLASTIC**      26,0
- **TOTAL**      51,1

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE @ 200 MHz</b>	<b>50 ± 1,5 Ohm</b>	<b>RESISTANCE</b>	
		- <b>INNER CONDUCT.</b>	11,5 Ohm/Km
<b>CAPACITANCE</b>	80 pF/m	- <b>BRAID</b>	16,2 Ohm/Km
<b>VELOCITY RATIO</b>	84%	<b>TENSION</b>	
		- <b>SHEATH</b>	4,5 kV
		- <b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	1,8	3536
10	MHz	2,5	2500
30	MHz	4,1	1443
50	MHz	5,2	1118
150	MHz	8,9	645
220	MHz	10,9	533

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	16,2	373
600	MHz	18,7	323
800	MHz	21,9	280
900	MHz	22,9	264
1000	MHz	24,5	250
1500	MHz	30,8	204

		<b>dB</b>	<b>W</b>
1800	MHz	34,1	186
2000	MHz	36,7	177
2500	MHz	40,9	158
3000	MHz	45,5	144
5200	MHz	63,4	110
5800	MHz	67,6	104

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>32	2000 ÷ 3000	MHz	>23
450 ÷ 1000	MHz	>29	3000 ÷ 4000	MHz	>23
1000 ÷ 2000	MHz	>26	4000 ÷ 5800	MHz	>14

### 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.





FABBRICA CAVI - ANTENNE - ACCESSORI TV

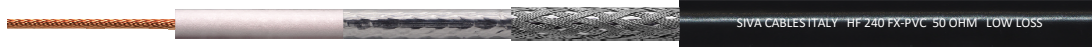


# HF 240 FX-PVC

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

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

<b>CU</b> 7 x 0,47 mm	<b>PEG</b> ø 3,80 mm	<b>LTA</b> ø 3,90 mm	<b>CS</b> ø 4,30 mm	<b>PVC2</b> ø 6,10 mm
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|| A || B || C || D || E ||

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	7 x 0,47 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 3,80 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALUMINIUM + POLYESTER + ALUMINIUM TAPE	h. 15 mm
	- COVERAGE		100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER	128 x 0,10 mm
	- COVERAGE		77%
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 6,10 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>## METER ## HF 240 FX - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM</b>	
		7x0,47 / 3,80 / 6,10 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	20,4
- PLASTIC	26,0
- TOTAL	47,8

## ELECTRICAL PROPERTIES at 20°C

IMPEDANCE @ 200 MHz 50 ± 2 Ohm

CAPACITANCE 80 pF/m

VELOCITY RATIO 84%

### RESISTANCE

- INNER CONDUCT.	15,5 Ohm/Km
- BRAID	16,2 Ohm/Km

### TENSION

- SHEATH SPARK TESTING	4,5 kV
------------------------	--------

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	2,3	3253
10	MHz	3,1	2300
30	MHz	5,1	1328
50	MHz	6,5	1029
150	MHz	10,7	594
220	MHz	13,0	490

### MAX. POWER RATING W

		dB	W
450	MHz	19,1	343
600	MHz	22,3	297
800	MHz	26,0	257
900	MHz	27,5	242
1000	MHz	29,3	230
1500	MHz	36,6	188

		dB	W
1800	MHz	40,5	171
2000	MHz	43,3	163
2500	MHz	48,2	145
3000	MHz	53,4	133
5200	MHz	74,4	101
5800	MHz	79,1	96

### STRUCTURAL RETURN LOSS dB

30 ÷ 450 MHz	>30	2000 ÷ 3000 MHz	>21
450 ÷ 1000 MHz	>27	3000 ÷ 4000 MHz	>21
1000 ÷ 2000 MHz	>24	4000 ÷ 5800 MHz	>12

### SCREENING EFFECTIVENESS dB

100 ÷ 900 MHz	>90
900 ÷ 2000 MHz	>80
2000 ÷ 3000 MHz	>70

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





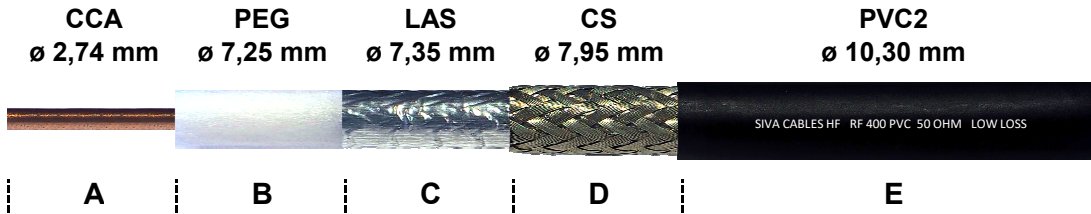
FABBRICA CAVI - ANTENNE - ACCESSORI TV



# HF 400 PVC

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

Class CPR **E<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>	NON-CONTAMINATING POLYVINYL-CHLORIDE		<b>ø 10,30 ± 0,18 mm</b>
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>## METER ## HF 400 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM</b>		
		<b>2,74 / 7,25 / 10,30 MADE IN ITALY CE 58 WEEK/YEAR EN 50575:2014 + A1:2016 Eca</b>		

### 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** 56,0
- **PLASTIC** 62,2
- **TOTAL** 121,5

## 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>	6,0 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.



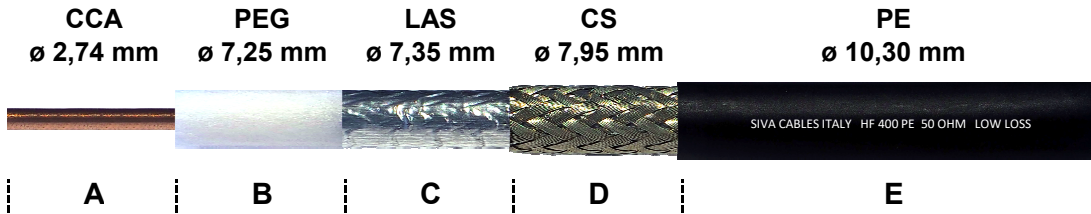
FABBRICA CAVI - ANTENNE - ACCESSORI TV



# 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.



FABBRICA CAVI - ANTENNE - ACCESSORI TV

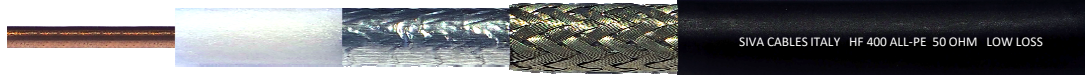


# HF 400 ALL-PE

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

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

CCA      PEG      LAS      ALL      PE  
ø 2,74 mm    ø 7,25 mm    ø 7,35 mm    ø 8,00 mm    ø 10,30 mm



A      B      C      D      E

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER CLAD ALUMINIUM .....	ø 2,74 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 7,25 ± 0,18 mm
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	h. 27 mm
		- COVERAGE .....	100%
<b>D</b>	<b>BRAID</b>	ALUMINIUM .....	168 x 0,16 mm
		- COVERAGE .....	88%
<b>E</b>	<b>SHEATH</b>	CARBON BLACK POLYETHYLENE .....	ø 10,30 ± 0,18 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>## METER ## HF 400 ALL - 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      21,4
- ALUMINIUM    10,8
- PLASTIC      43,7
- TOTAL        79,2

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>	
		- INNER CONDUCT.	4,7 Ohm/Km
<b>CAPACITANCE</b>	80 pF/m	- BRAID	6,0 Ohm/Km
<b>VELOCITY RATIO</b>	84%	<b>TENSION</b>	
		- SHEATH	8,5 kV
		- SPARK TESTING	

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,0	8202
10	MHz	1,3	5800
30	MHz	2,1	3349
50	MHz	2,8	2594
150	MHz	4,8	1498
220	MHz	5,8	1237

### MAX. POWER RATING W

		dB	W
450	MHz	8,6	865
600	MHz	10,2	749
800	MHz	11,8	648
900	MHz	12,6	611
1000	MHz	13,4	580
1500	MHz	16,7	474

		dB	W
1800	MHz	18,5	432,0
2000	MHz	19,7	410,0
2500	MHz	22,2	367,0
3000	MHz	24,6	335,0
5200	MHz	34,1	254,0
5800	MHz	36,2	241,0

### 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.



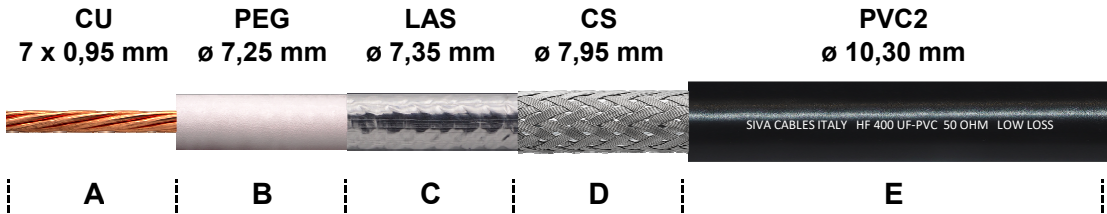
FABBRICA CAVI - ANTENNE - ACCESSORI TV



# HF 400 UF-PVC

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

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



## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	7 x 0,95 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 7,25 ± 0,18 mm
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	h. 27 mm
		- COVERAGE	100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER	192 x 0,15 mm
		- COVERAGE	90%
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 10,30 ± 0,18 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>## METER ## HF 400 UF - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM</b>	
		7x0,95 / 7,25 / 10,30 MADE IN ITALY CE 58 WEEK/YEAR EN 50575:2014 + A1:2016 Eca	

### MINIMUM BENDING RADIUS ( mm )

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

### TEMPERATURE RANGE

-30 °C / +70 °C

### CABLE WEIGHT ( Kg/Km )

- COPPER 78,7
- PLASTIC 62,5
- TOTAL 144,5

## ELECTRICAL PROPERTIES at 20°C

**IMPEDANCE @ 200 MHz** 50 ± 3 Ohm

**CAPACITANCE** 80 pF/m

**VELOCITY RATIO** 84%

### RESISTANCE

- INNER CONDUCT. 4,0 Ohm/Km
- BRAID 5,0 Ohm/Km

### TENSION

- SHEATH SPARK TESTING 6,0 kV

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,1	7778
10	MHz	1,4	5500
30	MHz	2,2	3175
50	MHz	3,0	2460
150	MHz	5,0	1420
220	MHz	6,1	1173

### MAX. POWER RATING W

		dB	W
450	MHz	9,0	820
600	MHz	10,7	710
800	MHz	12,4	615
900	MHz	13,2	580
1000	MHz	14,1	550
1500	MHz	17,4	449

		dB	W
1800	MHz	19,3	410
2000	MHz	20,5	389
2500	MHz	23,3	348
3000	MHz	25,8	318
5200	MHz	35,5	241
5800	MHz	37,7	228

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>25	2000 ÷ 3000	MHz	>20
450 ÷ 1000	MHz	>24	3000 ÷ 4000	MHz	>19
1000 ÷ 2000	MHz	>21	4000 ÷ 5800	MHz	>18

### 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.