

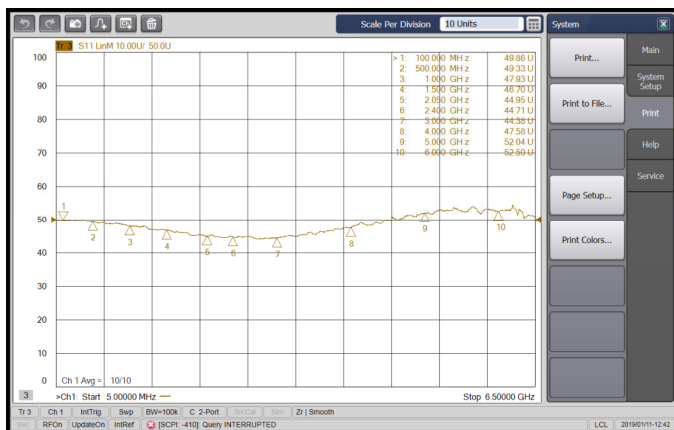


Dear Sirs,

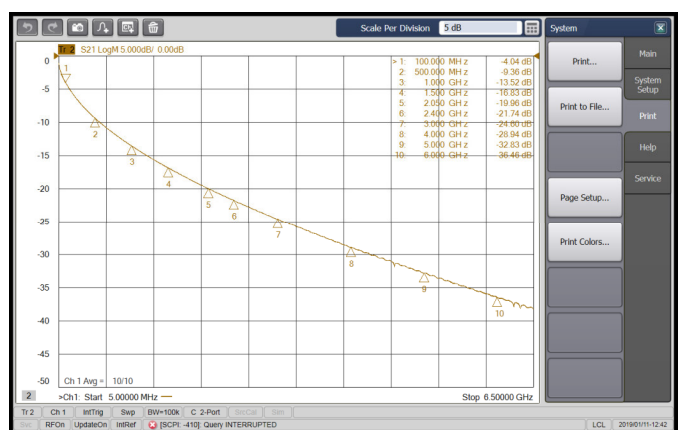
We have the pleasure to inform you, that SIVA introduces in his production, a new range of **HIGH QUALITY WIRELESS 50 OHM LOW LOSS CABLES**.

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_{ca}**

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

A	INNER CONDUCTOR	PLAIN COPPER	.....	ø 0,95 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	ø 2,80 ± 0,10 mm
C	SHIELD	ALL + PET + ALL ADHESIVE TAPE	.....	h. 12 mm
		- COVERAGE	.....	100%
D	BRAID	TINNED COPPER	.....	144 x 0,10 mm
		- COVERAGE	.....	94%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	ø 5,00 ± 0,10 mm
	- COLOUR	BLACK - RAL 9004		
	- PRINTING	## METER ## 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

IMPEDANCE @ 200 MHz	50 ± 1,5 Ohm	RESISTANCE	
		- INNER CONDUCT.	25,2 Ohm/Km
CAPACITANCE	86 pF/m	- BRAID	11,9 Ohm/Km
VELOCITY RATIO	77%	TENSION	
		- SHEATH	4,0 kV
		- SPARK TESTING	

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	2,9	1980
10	MHz	3,9	1400
30	MHz	6,3	808
50	MHz	8,1	626
150	MHz	13,0	361
220	MHz	15,8	298

MAX. POWER RATING W

		dB	W
450	MHz	23,0	209
600	MHz	26,9	181
800	MHz	31,3	157
900	MHz	33,3	148
1000	MHz	35,5	140
1500	MHz	44,3	114

		dB	W
1800	MHz	48,9	104
2000	MHz	52,0	99
2500	MHz	58,3	89
3000	MHz	64,1	81
5200	MHz	87,9	61
5800	MHz	93,4	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_{ca}**

CU 7 x 0,32 mm	PEG ø 2,80 mm	LTA ø 2,90 mm	CS ø 3,30 mm	PVC2 ø 5,00 mm
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|| A || B || C || D || E ||

MECHANICAL DATA

A	INNER CONDUCTOR	PLAIN COPPER	7 x 0,32 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 2,80 ± 0,10 mm
C	SHIELD	ALUMINIUM + POLYESTER + ALUMINIUM TAPE	h. 12 mm
	- COVERAGE		100%
D	BRAID	TINNED COPPER	144 x 0,10 mm
	- COVERAGE		94%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 5,00 ± 0,10 mm
	- COLOUR	BLACK - RAL 9004	
	- PRINTING	## METER ## HF 195 FX - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM	
		7x0,32 / 2,80 / 5,00 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	15,6
- PLASTIC	19,7
- TOTAL	36,3

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE @ 200 MHz	50 ± 2 Ohm	RESISTANCE	
CAPACITANCE	86 pF/m	- INNER CONDUCT.	32,0 Ohm/Km
VELOCITY RATIO	77%	- BRAID	11,9 Ohm/Km
		TENSION	
		- SHEATH	4,0 kV
		SPARK TESTING	

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	3,0	1768
10	MHz	4,1	1250
30	MHz	6,8	722
50	MHz	8,8	559
150	MHz	14,1	323
220	MHz	17,1	267

MAX. POWER RATING W

		dB	W
450	MHz	24,8	186
600	MHz	29,0	161
800	MHz	33,8	140
900	MHz	36,1	132
1000	MHz	38,4	125
1500	MHz	48,0	102

		dB	W
1800	MHz	53,0	93
2000	MHz	56,3	88
2500	MHz	63,1	80
3000	MHz	69,1	72
5200	MHz	97,4	55
5800	MHz	103,4	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 ZH

HIGH PERFORMANCE BROADBAND LOW LOSS 50 OHM COAXIAL
COMMUNICATION CABLE DESIGNED FOR USE IN WIRELESS APPLICATIONS
IN ACCORDANCE TO : IEC 60754-1 IEC 60754-2 IEC 61034-2

Class CPR **E_{ca}**

CU **PEG** **LAS** **CS** **LSZH**
 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

A	INNER CONDUCTOR	PLAIN COPPER	.....	ø 1,13 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	ø 2,95 ± 0,10 mm
C	SHIELD	ALL + PET + ALL ADHESIVE TAPE	.....	h. 12 mm
	- COVERAGE	.....		100%
D	BRAID	TINNED COPPER	.....	144 x 0,10 mm
	- COVERAGE	.....		92%
E	SHEATH	FLAME RETARDANT NON-CORROSIVE THERMOPLASTIC FREE OF HALOGENS	.....	ø 5,00 ± 0,10 mm
	- COLOUR	BLACK - RAL 9004		
	- PRINTING	## METER ## HF 200 ZH HIGH PERFORMANCE LOW LOSS CABLE LSZH 50 OHM 1,13 / 2,95 / 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 -40 °C / +80 °C

CABLE WEIGHT (Kg/Km)

- **COPPER** 19,6
- **PLASTIC** 18,7
- **TOTAL** 39,8

ELECTRICAL PROPERTIES at 20°C

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

ATTENUATIONS dB/100 m.

		dB	W
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

		dB	W
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

		dB	W
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 214 UF-PVC

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

Class CPR **E_{ca}**

CU 19 x 0,28 mm	PEG ø 3,80 mm	LTA ø 3,90 mm	CS ø 4,30 mm	PVC2 ø 5,40 mm
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|| A || B || C || D || E ||

MECHANICAL DATA

A	INNER CONDUCTOR	PLAIN COPPER	19 x 0,28 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 3,80 ± 0,10 mm
C	SHIELD	ALUMINIUM + POLYESTER + ALUMINIUM TAPE - COVERAGE	h. 15 mm 100%
D	BRAID	TINNED COPPER - COVERAGE	128 x 0,10 mm 77%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 5,40 ± 0,10 mm
	- COLOUR	BLACK - RAL 9004	
	- PRINTING	## METER ## HF 214 UF - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM 19x0,28 / 3,80 / 5,40 MADE IN ITALY CE 61 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	20,3
- PLASTIC	16,6
- TOTAL	38,3

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE @ 200 MHz	50 ± 3 Ohm	RESISTANCE	
CAPACITANCE	80 pF/m	- INNER CONDUCT.	15,5 Ohm/Km
VELOCITY RATIO	84%	- BRAID	16,2 Ohm/Km
		TENSION	
		- SHEATH	2,5 kV
		SPARK TESTING	

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	2,5	3253
10	MHz	3,3	2300
30	MHz	5,4	1328
50	MHz	6,9	1029
150	MHz	11,3	594
220	MHz	13,7	490

MAX. POWER RATING W

		dB	W
450	MHz	20,0	343
600	MHz	23,3	297
800	MHz	27,3	257
900	MHz	28,9	242
1000	MHz	30,8	230
1500	MHz	38,5	188

		dB	W
1800	MHz	42,6	171
2000	MHz	45,4	163
2500	MHz	50,5	145

STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>28	2000 ÷ 3000	MHz	>19
450 ÷ 1000	MHz	>25	3000 ÷ 4000	MHz	>19
1000 ÷ 2000	MHz	>22	4000 ÷ 5800	MHz	>10

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_{ca}**

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

A	INNER CONDUCTOR	PLAIN COPPER	.....	ø 1,40 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	ø 3,80 ± 0,10 mm
C	SHIELD	ALL + PET + ALL ADHESIVE TAPE	.....	h. 15 mm
		- COVERAGE	.....	100%
D	BRAID	TINNED COPPER	.....	128 x 0,10 mm
		- COVERAGE	.....	77%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	ø 6,10 ± 0,10 mm
	- COLOUR	BLACK - RAL 9004		
	- PRINTING	## METER ## HF 240 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM		
		1,40 / 3,80 / 6,10 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** 23,3
- **PLASTIC** 26,0
- **TOTAL** 51,1

ELECTRICAL PROPERTIES at 20°C

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

ATTENUATIONS dB/100 m.

		dB	W
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

		dB	W
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

		dB	W
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.



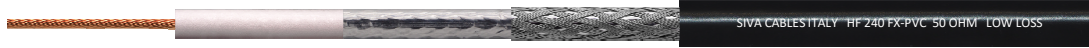
FABBRICA CAVI - ANTENNE - ACCESSORI TV

HF 240 FX-PVC

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

Class CPR **E_{ca}**

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

MECHANICAL DATA

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

		dB	W
5	MHz	2,1	3253
10	MHz	2,9	2300
30	MHz	4,7	1328
50	MHz	5,9	1029
150	MHz	9,9	594
220	MHz	12,2	490

MAX. POWER RATING W

		dB	W
450	MHz	18,2	343
600	MHz	21,1	297
800	MHz	24,5	257
900	MHz	25,8	242
1000	MHz	27,5	230
1500	MHz	34,1	188

		dB	W
1800	MHz	37,7	171
2000	MHz	40,5	163
2500	MHz	45,4	145
3000	MHz	50,3	133
5200	MHz	69,4	101
5800	MHz	73,8	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 287 FX - PVC

DOUBLE SCREENED 50 OHM
RF COAXIAL CABLE

Class CPR **E_{ca}**

CU **PEG** **LRP** **CU** **PVC2**
7 x 0,65 mm ø 5,00 mm ø 5,10 mm ø 5,60 mm ø 7,30 mm



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

MECHANICAL DATA

A	INNER CONDUCTOR	PLAIN COPPER	7 x 0,65 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 5,00 ± 0,10 mm
C	SHIELD	COPPER + POLYESTER TAPE	h. 18 mm
	- COVERAGE		100%
D	BRAID	PLAIN COPPER	120 x 0,12 mm
	- COVERAGE		72%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 7,30 ± 0,10 mm
	- COLOUR	BLACK - RAL 9004	
	- PRINTING	## METER ## HF 287 FX - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM	
		7x0,65 / 5,00 / 7,30 MADE IN ITALY CE 62 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** 34,7
- **PLASTIC** 32,6
- **TOTAL** 71,3

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE 50 ± 2 Ohm

CAPACITANCE 80 pF/m

VELOCITY RATIO 84%

RESISTANCE

- **INNER CONDUCT.** 7,8 Ohm/Km
- **BRAID** 11,0 Ohm/Km

TENSION

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

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,5	3111
10	MHz	2,0	2200
30	MHz	3,3	1270
50	MHz	4,2	984
150	MHz	7,2	568
220	MHz	8,8	469

MAX. POWER RATING W

		dB	W
450	MHz	12,9	328
600	MHz	15,0	284
800	MHz	17,7	246
900	MHz	18,5	232
1000	MHz	19,7	220
1500	MHz	24,7	180

		dB	W
1800	MHz	27,3	164
2000	MHz	29,5	156
2500	MHz	32,6	139
3000	MHz	36,4	127
5200	MHz	50,8	96
5800	MHz	54,1	91

STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>30	2000 ÷ 3000	MHz	>18
450 ÷ 1000	MHz	>27	3000 ÷ 4000	MHz	>15
1000 ÷ 2000	MHz	>22	4000 ÷ 5800	MHz	>11

SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>80
900 ÷ 2000	MHz	>70
2000 ÷ 3000	MHz	>60

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



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_{ca}**

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

A	INNER CONDUCTOR	PLAIN COPPER	.....	ø 1,78 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	ø 4,85 ± 0,10 mm
C	SHIELD	ALL + PET + ALL ADHESIVE TAPE	.....	h. 18 mm
		- COVERAGE	.....	100%
D	BRAID	TINNED COPPER	.....	144 x 0,12 mm
		- COVERAGE	.....	82%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	ø 7,60 ± 0,10 mm
	- COLOUR	BLACK - RAL 9004		
	- PRINTING	## METER ## HF 300 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM		
		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

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

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,5	5020
10	MHz	2,0	3550
30	MHz	3,3	2050
50	MHz	4,3	1588
150	MHz	7,3	917
220	MHz	9,0	757

MAX. POWER RATING W

		dB	W
450	MHz	13,2	529
600	MHz	15,4	458
800	MHz	18,2	397
900	MHz	19,0	374
1000	MHz	20,3	355
1500	MHz	25,3	290

		dB	W
1800	MHz	28,0	265
2000	MHz	30,2	251
2500	MHz	33,5	225
3000	MHz	37,4	205
5200	MHz	51,9	156
5800	MHz	55,3	147

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.

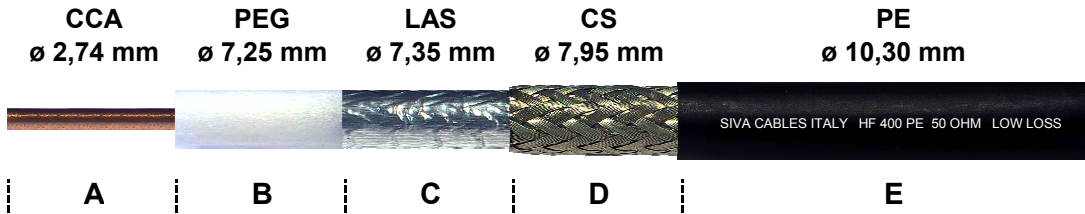


FABBRICA CAVI - ANTENNE - ACCESSORI TV

HF 400 PE

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

Class CPR **F_{ca}**



MECHANICAL DATA

A	INNER CONDUCTOR	PLAIN COPPER CLAD ALUMINIUM	ø 2,74 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 7,25 ± 0,18 mm
C	SHIELD	ALL + PET + ALL ADHESIVE TAPE	h. 27 mm
		- COVERAGE	100%
D	BRAID	TINNED COPPER	192 x 0,15 mm
		- COVERAGE	90%
E	SHEATH	CARBON BLACK POLYETHYLENE	ø 10,30 ± 0,18 mm
	- COLOUR	BLACK - RAL 9004	
	- PRINTING	## METER ## HF 400 PE HIGH PERFORMANCE LOW LOSS CABLE 50 OHM	
		2,74 / 7,25 / 10,30 MADE IN ITALY CE 58 WEEK/YEAR	

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

IMPEDANCE @ 200 MHz	50 ± 1,5 Ohm	RESISTANCE	
		- INNER CONDUCT.	4,7 Ohm/Km
CAPACITANCE	80 pF/m	- BRAID	5,0 Ohm/Km
VELOCITY RATIO	84%	TENSION	
		- 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	4,7	1498
220	MHz	5,7	1237

MAX. POWER RATING W

		dB	W
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

		dB	W
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.

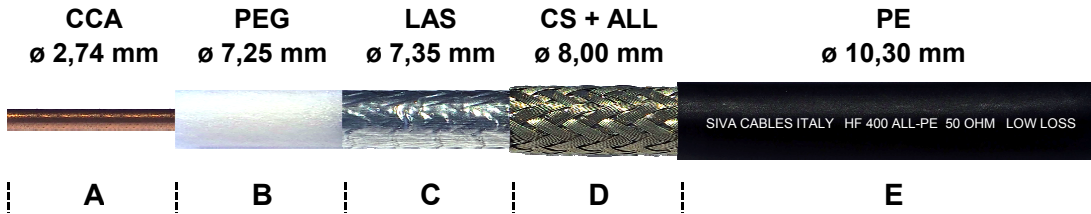


FABBRICA CAVI - ANTENNE - ACCESSORI TV

HF 400 ALL-PE

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

Class CPR **F_{ca}**



MECHANICAL DATA

A	INNER CONDUCTOR	PLAIN COPPER CLAD ALUMINIUM	.....	ø 2,74 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE		ø 7,25 ± 0,18 mm
C	SHIELD	ALL + PET + ALL ADHESIVE TAPE		h. 27 mm
		- COVERAGE	.....	100%
D	BRAID	ALUMINIUM	.....	84 x 0,16 mm
		TINNED COPPER	.....	84 x 0,15 mm
		- COVERAGE	.....	88%
E	SHEATH	CARBON BLACK POLYETHYLENE	.....	ø 10,30 ± 0,18 mm
	- COLOUR	BLACK - RAL 9004		
	- PRINTING	## METER ## HF 400 ALL-PE HIGH PERFORMANCE LOW LOSS CABLE 50 OHM		
		2,74 / 7,25 / 10,30 MADE IN ITALY CE 58 WEEK/YEAR		

MINIMUM BENDING RADIUS (mm)

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

CABLE WEIGHT (Kg/Km)

- **COPPER** 15,6
- **ALUMINIUM** 26,8
- **PLASTIC** 43,7
- **TOTAL** 89,4

TEMPERATURE RANGE -40 °C / +75 °C

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE @ 200 MHz	50 ± 1,5 Ohm	RESISTANCE	
		- INNER CONDUCT.	4,7 Ohm/Km
CAPACITANCE	80 pF/m	- BRAID	6,0 Ohm/Km
VELOCITY RATIO	84%	TENSION	
		- 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
2000	MHz	19,7	410
2500	MHz	22,2	367
3000	MHz	24,6	335
5200	MHz	34,1	254
5800	MHz	36,2	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.

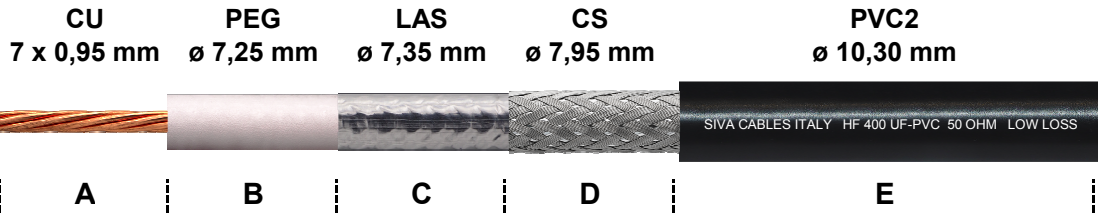


FABBRICA CAVI - ANTENNE - ACCESSORI TV

HF 400 UF-PVC

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

Class CPR **E_{ca}**



MECHANICAL DATA

A	INNER CONDUCTOR	PLAIN COPPER	7 x 0,95 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 7,25 ± 0,18 mm
C	SHIELD	ALL + PET + ALL ADHESIVE TAPE	h. 27 mm
		- COVERAGE	100%
D	BRAID	TINNED COPPER	192 x 0,15 mm
		- COVERAGE	90%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 10,30 ± 0,18 mm
	- COLOUR	BLACK - RAL 9004	
	- PRINTING	## METER ## HF 400 UF - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM	
		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

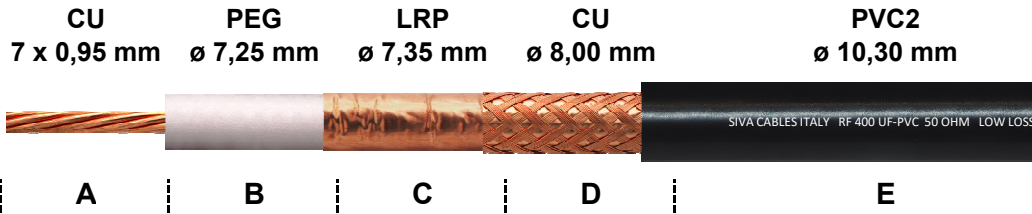
100 ÷ 900	MHz	>95
900 ÷ 2000	MHz	>85
2000 ÷ 3000	MHz	>75

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

RF 400 UF - PVC

DOUBLE SCREENED 50 OHM
RF COAXIAL CABLE

Class CPR **E_{ca}**



MECHANICAL DATA

A	INNER CONDUCTOR	PLAIN COPPER	.....	7 x 0,95 mm
B	DIELECTRIC	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	.....	ø 7,25 ± 0,18 mm
C	SHIELD	COPPER + POLYESTER TAPE	.....	h. 27 mm
		- COVERAGE	.....	100%
D	BRAID	PLAIN COPPER	.....	112 x 0,16 mm
		- COVERAGE	.....	73%
E	SHEATH	NON-CONTAMINATING POLYVINYL-CHLORIDE	.....	ø 10,30 ± 0,18 mm
	- COLOUR	BLACK - RAL 9004		
	- PRINTING	## METER ##	RF 400 UF 50 OHM LOW LOSS FLEXIBLE CABLE	7x0,95/7,25/10,30
		MADE IN ITALY CE 56 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** 76,1
- **PLASTIC** 63,8
- **TOTAL** 139,9

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE 50 ± 3 Ohm

CAPACITANCE 80 pF/m

VELOCITY RATIO 84%

RESISTANCE

- **INNER CONDUCT.** 4,0 Ohm/Km
- **BRAID** 7,4 Ohm/Km

TENSION

- **SHEATH SPARK TESTING** 5,5 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	>80
900 ÷ 2000	MHz	>70
2000 ÷ 3000	MHz	>60

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