



FABBRICA CAVI - ANTENNE - ACCESSORI TV



# RG 223 U

DOUBLE SCREENED 50 OHM RF COAXIAL CABLE  
MANUFACTURED IN COMPLIANCE WITH MIL-C-17F STANDARDS

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

CA PE CA CA PVC2  
ø 0,90 mm ø 2,95 mm ø 3,50 mm ø 4,00 mm ø 5,40 mm



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

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	SILVERED COPPER .....	ø 0,90 ± 0,025 mm
<b>B</b>	<b>DIELECTRIC</b>	LOW DENSITY POLYETHYLENE .....	ø 2,95 ± 0,10 mm
<b>C</b>	<b>1° BRAID</b>	SILVERED COPPER .....	112 x 0,13 mm
		- COVERAGE .....	98%
<b>D</b>	<b>2° BRAID</b>	SILVERED COPPER .....	112 x 0,13 mm
		- COVERAGE .....	97%
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 5,40 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>M17/84-RG223 MIL-C-17F RG 223 U 50 Ohm</b>	

**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 38,5
- PLASTIC 21,4
- TOTAL 59,9

## ELECTRICAL PROPERTIES at 20°C

**IMPEDANCE** 50 ± 2 Ohm

**CAPACITANCE** 100 pF/m

**VELOCITY RATIO** 66%

### RESISTANCE

- INNER CONDUCT. 28 Ohm/Km
- BRAID 8 Ohm/Km

### TENSION

- SHEATH SPARK TESTING 3,5 kV

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	2,6	
10	MHz	3,7	
50	MHz	9,0	
100	MHz	13,0	
200	MHz	19,3	
400	MHz	28,1	

### MAX. POWER RATING W

		dB	W
500	MHz	31,9	
600	MHz	35,3	
800	MHz	42,3	
1000	MHz	48,5	
1350	MHz	57,4	
1500	MHz	61,3	

		dB	W
1750	MHz	66,9	
2150	MHz	75,9	
2250	MHz	77,7	
2500	MHz	82,5	
2750	MHz	87,0	
3000	MHz	91,2	

### STRUCTURAL RETURN LOSS dB

30 ÷ 300	MHz	>32	1000 ÷ 2000	MHz	>19
300 ÷ 600	MHz	>28	2000 ÷ 3000	MHz	>18
600 ÷ 1000	MHz	>23	..... ÷ .....	MHz	-

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>78
900 ÷ 2000	MHz	-
2000 ÷ 3000	MHz	-

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