



FABBRICA CAVI - ANTENNE - ACCESSORI TV



# RG 223 U-ZH

DOUBLE SCREENED 50 OHM RF COAXIAL CABLE  
MANUFACTURED IN COMPLIANCE WITH MIL-C-17F STANDARDS  
COMPLIANCE IEC 60754-1 IEC 60754-2 IEC 61034-2

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

CA PE CA CA Pet LSZH  
ø 0,90 mm ø 2,95 mm ø 3,50 mm ø 4,00 mm h. 16 mm ø 5,40 mm



A B C D E F

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	SILVERED COPPER	.....	<b>ø 0,90 ± 0,025 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	LOW DENSITY POLYETHYLENE	.....	<b>ø 2,95 ± 0,10 mm</b>
<b>C</b>	<b>1° BRAID</b>	SILVERED COPPER	.....	<b>112 x 0,13 mm</b>
	- COVERAGE		.....	<b>98%</b>
<b>D</b>	<b>2° BRAID</b>	SILVERED COPPER	.....	<b>112 x 0,13 mm</b>
	- COVERAGE		.....	<b>97%</b>
<b>E</b>	<b>NON-MIGRATING</b>	POLYESTER TAPE	.....	<b>h. 16 mm</b>
<b>F</b>	<b>SHEATH</b>	FLAME RETARDANT NON-CORROSIVE THERMOPLASTIC FREE OF HALOGENS		<b>ø 5,40 ± 0,10 mm</b>
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>M17/84-RG223 MIL-C-17G RG 223 U-ZH 50 Ohm LSZH</b>		
		<b>MADE IN ITALY CE 56 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 -40 °C / +80 °C

### CABLE WEIGHT ( Kg/Km )

- COPPER 38,5
- PLASTIC 21,9
- TOTAL 60,7

## ELECTRICAL PROPERTIES at 20°C

IMPEDANCE 50 ± 2 Ohm

CAPACITANCE 100 pF/m

VELOCITY RATIO 66%

### RESISTANCE

- INNER CONDUCT. 28,0 Ohm/Km
- BRAID 8,0 Ohm/Km

### TENSION

- SHEATH SPARK TESTING 3,5 kV

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	2,6	1131
10	MHz	3,8	800
30	MHz	7,1	462
50	MHz	9,2	358
150	MHz	16,6	207
220	MHz	20,3	171

### MAX. POWER RATING W

		dB	W
450	MHz	30,1	119
600	MHz	35,4	103
800	MHz	41,6	89
900	MHz	44,5	84
1000	MHz	47,4	80
1500	MHz	60,5	65

		dB	W
1800	MHz	67,4	60
2000	MHz	72,2	57
2500	MHz	82,6	51
3000	MHz	90,5	46
5200	MHz	126,3	35
5800	MHz	136,7	34

### STRUCTURAL RETURN LOSS dB

30 ÷ 450 MHz	>28	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	>78
900 ÷ 2000 MHz	
2000 ÷ 3000 MHz	

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