



FABBRICA CAVI - ANTENNE - ACCESSORI TV

# RG 214 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  
7 x 0,75 mm ø 7,25 mm ø 7,90 mm ø 8,60 mm ø 10,8 mm



A B C D E

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	SILVERED COPPER	.....	<b>7 x 0,75 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	LOW DENSITY POLYETHYLENE	.....	<b>ø 7,25 ± 0,18 mm</b>
<b>C</b>	<b>1° BRAID</b>	SILVERED COPPER	.....	<b>144 x 0,16 mm</b>
		- COVERAGE	.....	<b>96%</b>
<b>D</b>	<b>2° BRAID</b>	SILVERED COPPER	.....	<b>168 x 0,16 mm</b>
		- COVERAGE	.....	<b>98%</b>
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE		<b>ø 10,8 ± 0,18 mm</b>
		- COLOUR	<b>BLACK - RAL 9004</b>	
		- PRINTING	<b>M17/75-RG214 MIL-C-17F RG 214 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 119,7
- PLASTIC 87,6
- TOTAL 207,3

## ELECTRICAL PROPERTIES at 20°C

IMPEDANCE 50 ± 2 Ohm

CAPACITANCE 100 pF/m

VELOCITY RATIO 66%

### RESISTANCE

- INNER CONDUCT. 6 Ohm/Km
- BRAID 4,2 Ohm/Km

### TENSION

- SHEATH SPARK TESTING 5,5 kV

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,3	2828
10	MHz	1,9	2000
30	MHz	3,5	1155
50	MHz	4,5	894
150	MHz	8,5	516
220	MHz	10,5	426

### MAX. POWER RATING W

		dB	W
450	MHz	15,4	298
600	MHz	17,8	258
800	MHz	21,3	224
900	MHz	22,7	211
1000	MHz	24,3	200
1500	MHz	31,7	163

		dB	W
1800	MHz	35,7	149
2000	MHz	38,3	141
2500	MHz	44,7	126
3000	MHz	51,3	115
5200	MHz	79,9	88
5800	MHz	87,0	83

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>22	2000 ÷ 3000	MHz	>19
450 ÷ 1000	MHz	>20	3000 ÷ 4000	MHz	>18
1000 ÷ 2000	MHz	>19	4000 ÷ 5800	MHz	>17

### 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.

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