



FABBRICA CAVI - ANTENNE - ACCESSORI TV

# RG 174 AU

50 OHM RF COAXIAL CABLE

MANUFACTURED IN COMPLIANCE WITH MIL-C-17F STANDARDS

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

CW 7 x 0,16 mm    PE ø 1,50 mm    CS ø 1,90 mm    PVC2 ø 2,80 mm



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

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	COPPERWELD .....	<b>7 x 0,16 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	LOW DENSITY POLYETHYLENE .....	<b>ø 1,50 ± 0,08 mm</b>
<b>C</b>	<b>BRAID</b>	TINNED COPPER .....	<b>64 x 0,10 mm</b>
		- COVERAGE .....	<b>88%</b>
<b>D</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE .....	<b>ø 2,80 ± 0,13 mm</b>
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>M17/119-RG174 MIL-C-17F RG 174 AU 50 Ohm</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

-30 °C / +70 °C

### CABLE WEIGHT ( Kg/Km )

- COPPER 5,9
- PLASTIC 6,6
- TOTAL 12,5

## ELECTRICAL PROPERTIES at 20°C

**IMPEDANCE** 50 ± 2 Ohm

**CAPACITANCE** 100 pF/m

**VELOCITY RATIO** 66%

### RESISTANCE

- **INNER CONDUCT.** 282 Ohm/Km
- **BRAID** 39 Ohm/Km

### TENSION

- **SHEATH SPARK TESTING** 2,0 kV

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	7,4	226
10	MHz	9,5	160
30	MHz	13,3	92
50	MHz	17,5	72
150	MHz	33,0	41
220	MHz	40,3	34

### MAX. POWER RATING W

		dB	W
450	MHz	58,7	24
600	MHz	68,6	21
800	MHz	77,0	18
900	MHz	82,8	17
1000	MHz	87,5	16
1500	MHz	122,5	13

		dB	W
1800	MHz	135,0	12
2000	MHz	145,0	11
2500	MHz	165,5	10
3000	MHz	184,5	9
5200	MHz	267,5	7
5800	MHz	292,0	7

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>27	2000 ÷ 3000	MHz	>17
450 ÷ 1000	MHz	>23	3000 ÷ 4000	MHz	>17
1000 ÷ 2000	MHz	>21	4000 ÷ 5800	MHz	>16

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>52
900 ÷ 2000	MHz	
2000 ÷ 3000	MHz	

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

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