



FABBRICA CAVI - ANTENNE - ACCESSORI TV

# RG 174 AU-ZH

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>**

CW PE CS LSZH  
7 x 0,16 mm ø 1,50 mm ø 1,90 mm 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>	FLAME RETARDANT NON-CORROSIVE		<b>ø 2,80 ± 0,13 mm</b>
		FREE OF HALOGENS UV RESISTANT THERMOPLASTIC		
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	<b>M17/119-RG174 MIL-C-17G RG 174 AU-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 5,9
- PLASTIC 6,7
- TOTAL 12,6

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE</b>	50 ± 2 Ohm	<b>VOLTAGE</b>	
<b>CAPACITANCE</b>	100 pF/m	- OPERATING	≤ 1,5 kV
<b>VELOCITY RATIO</b>	66%	TEST ( 50 Hz / 1 min )	≤ 3 kV
<b>RESISTANCE</b>		<b>TENSION</b>	
- INNER CONDUCT.	315 Ohm/Km	- SHEATH	2,0 kV
- BRAID	39 Ohm/Km	<b>SPARK TESTING</b>	

### 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.