



FABBRICA CAVI - ANTENNE - ACCESSORI TV

# RG 58 CU

50 OHM RF COAXIAL CABLE

MANUFACTURED IN COMPLIANCE WITH MIL-C-17F STANDARDS

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

CS PE CS PVC2  
19 x 0,18 mm ø 2,95 mm ø 3,50 mm ø 5,00 mm



A B C D

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	TINNED COPPER	19 x 0,18 mm
<b>B</b>	<b>DIELECTRIC</b>	LOW DENSITY POLYETHYLENE	ø 2,95 ± 0,10 mm
<b>C</b>	<b>BRAID</b>	TINNED COPPER	112 x 0,13 mm
		- COVERAGE	96%
<b>D</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 5,00 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>	
	- PRINTING	<b>M17/28-RG058 MIL-C-17G RG 58 CU 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 19,2
- PLASTIC 21,2
- TOTAL 40,4

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE</b>	50 ± 2 Ohm	<b>VOLTAGE</b>	
<b>CAPACITANCE</b>	100 pF/m	- OPERATING	≤ 2,5 kV
<b>VELOCITY RATIO</b>	66%	TEST ( 50 Hz / 1 min )	≤ 5 kV
<b>RESISTANCE</b>		<b>TENSION</b>	
- INNER CONDUCT.	36,5 Ohm/Km	- SHEATH	4,0 kV
- BRAID	14 Ohm/Km	<b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	2,9	849
10	MHz	4,3	600
30	MHz	7,9	346
50	MHz	10,2	268
150	MHz	18,2	155
220	MHz	22,2	128

### MAX. POWER RATING W

		dB	W
450	MHz	33,0	89
600	MHz	38,9	77
800	MHz	45,8	67
900	MHz	48,9	63
1000	MHz	52,4	60
1500	MHz	67,0	49

		dB	W
1800	MHz	74,7	44
2000	MHz	79,8	43
2500	MHz	96,6	38
3000	MHz	111,0	35
5200	MHz	175,3	26
5800	MHz	191,7	25

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>27	2000 ÷ 3000	MHz	>18
450 ÷ 1000	MHz	>25	3000 ÷ 4000	MHz	>15
1000 ÷ 2000	MHz	>20	4000 ÷ 5800	MHz	>11

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>57
900 ÷ 2000	MHz	
2000 ÷ 3000	MHz	

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

SI.VA S.R.L. Via Vittorio Veneto 63 24040 Bonate Sotto ( Bergamo ) Italia  
Tel. 0039 035 991085 / 86 <http://www.sivacavi.it> [siva@sivacavi.it](mailto:siva@sivacavi.it)

Date  
31/05/2025 - REV 1