

# RG 71 BU

DOUBLE SCREENED 93 OHM RF COAXIAL CABLE  
MANUFACTURED IN COMPLIANCE WITH MIL-C-17F STANDARDS

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

**CW**      **PEA**      **CU**      **CS**      **PE**  
 ø 0,64 mm    ø 3,70 mm    ø 4,35 mm    ø 4,85 mm    ø 6,20 mm



|| **A** || **B** || **C** || **D** || **E** ||

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	COPPERWELD	.....	<b>ø 0,64 ± 0,025 mm</b>
<b>B</b>	<b>DIELECTRIC</b>	AIRED POLYETHYLENE	.....	<b>ø 3,70 ± 0,13 mm</b>
<b>C</b>	<b>1° BRAID</b>	PLAIN COPPER	.....	<b>112 x 0,16 mm</b>
		- COVERAGE	.....	<b>96%</b>
<b>D</b>	<b>2° BRAID</b>	TINNED COPPER	.....	<b>144 x 0,13 mm</b>
		- COVERAGE	.....	<b>93%</b>
<b>E</b>	<b>SHEATH</b>	CARBON BLACK POLYETHYLENE	.....	<b>ø 6,20 ± 0,13 mm</b>
		- COLOUR	<b>BLACK - RAL 9004</b>	
		- PRINTING	<b>M - 17/90 RG 71 MIL-C-17F RG 71 BU 93 OHM</b>	

### MINIMUM BENDING RADIUS ( mm )

- **SINGLE**      ø EXTERNAL X 5
- **REPEATED**    ø EXTERNAL X 10

### TEMPERATURE RANGE

-40 °C / +75 °C

### CABLE WEIGHT ( Kg/Km )

- **COPPER**      44,0
- **PLASTIC**      17,7
- **TOTAL**        61,7

## ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE</b>	93 ± 5 Ohm	<b>RESISTANCE</b>	
		- <b>INNER CONDUCT.</b>	130 Ohm/Km
<b>CAPACITANCE</b>	44 pF/m	- <b>BRAID</b>	7 Ohm/Km
		<b>TENSION</b>	
<b>VELOCITY RATIO</b>	84%	- <b>SHEATH</b>	4,5 kV
		- <b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	1,9	
10	MHz	2,4	
50	MHz	5,8	
100	MHz	8,1	
200	MHz	11,7	
400	MHz	16,8	

### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
500	MHz	18,7	
600	MHz	20,8	
800	MHz	24,0	
1000	MHz	27,3	
1350	MHz	32,4	
1500	MHz	34,2	

		<b>dB</b>	<b>W</b>
1750	MHz	37,8	
2150	MHz	42,5	
2250	MHz	43,2	
2500	MHz	46,8	
2750	MHz	49,0	
3000	MHz	52,0	

### STRUCTURAL RETURN LOSS dB

30 ÷ 300	MHz	>17	1000 ÷ 2000	MHz	>16
300 ÷ 600	MHz	>17	2000 ÷ 3000	MHz	>14
600 ÷ 1000	MHz	>17	..... ÷ .....	MHz	-

### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>70
900 ÷ 2000	MHz	-
2000 ÷ 3000	MHz	-

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