

# RF 240

HIGH PERFORMANCE BROADBAND LOW LOSS 50 OHM COAXIAL  
COMMUNICATION CABLE DESIGNED FOR USE IN WIRELESS APPLICATIONS

Class CPRE<sub>ca</sub>

CU                      PEG                      LAS                      CS                      PVC2  
 ø 1,40 mm    ø 3,80 mm    ø 3,90 mm    ø 4,30 mm    ø 6,10 mm



A                      B                      C                      D                      E

## MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	ø 1,40 mm
<b>B</b>	<b>DIELECTRIC</b>	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	ø 3,80 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE	h. 15 mm
		• COVERAGE                      100%	
<b>D</b>	<b>BRAID</b>	TINNED COPPER	128 x 0,10 mm
		• COVERAGE                      77%	
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE	ø 6,10 ± 0,10 mm

- COLOUR
- PRINTING

**BLACK - RAL 9004**

**## METER ## F 240 PVC HIGH PERFORMANCE LOW LOSS CABLE 50 OHM**  
 1,40 / 3,80 / 6,10 MADE IN EUROPE CE 58 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                      23,3
- PLASTIC                      26,0
- TOTAL                      51,1

## ELECTRICAL PROPERTIES at 20°C

IMPEDANCE @ 200 MHz                      50 ± 1,5 Ohm

CAPACITANCE                      80 pF/m

VELOCITY RATIO                      84%

## RESISTANCE

- INNER CONDUCT.                      11,5 Ohm/Km
- BRAID                      16,2 Ohm/Km

## TENSION

- SHEATH                      4,5 kV

## SPARK TESTING

## ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,8	3536
10	MHz	2,5	2500
30	MHz	4,1	1443
50	MHz	5,2	1118
150	MHz	8,9	645
220	MHz	10,9	533

## MAX. POWER RATING W

		dB	W
450	MHz	16,2	373
600	MHz	18,7	323
800	MHz	21,9	280
900	MHz	22,9	264
1000	MHz	24,5	250
1500	MHz	30,8	204

		dB	W
1800	MHz	34,1	186
2000	MHz	36,7	177
2500	MHz	40,9	158
3000	MHz	45,5	144
5200	MHz	63,4	110
5800	MHz	67,6	104

## STRUCTURAL RETURN LOSS dB

30 ÷ 450                      MHz                      >32  
 450 ÷ 1000                      MHz                      >29  
 1000 ÷ 2000                      MHz                      >26

2000 ÷ 3000                      MHz                      >23  
 3000 ÷ 4000                      MHz                      >21  
 4000 ÷ 5800                      MHz                      >12

## SCREENING EFFECTIVENESS dB

100 ÷ 900                      MHz                      >95  
 900 ÷ 2000                      MHz                      >85  
 2000 ÷ 3000                      MHz                      >75

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