



# RANGEFUL



## RG 58 U

DOUBLE SCREENED 50 OHM  
RF COAXIAL CABLE

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

<b>CU</b> ø 1,00 mm	<b>PEE</b> ø 2,95 mm	<b>LTA</b> ø 3,05 mm	<b>CS</b> ø 3,45 mm	<b>PVC2</b> ø 5,00 mm
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	<b>A</b>		<b>B</b>		<b>C</b>		<b>D</b>		<b>E</b>	
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### MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	.....	ø 1,00 mm
<b>B</b>	<b>DIELECTRIC</b>	FOAM POLYETHYLENE	.....	ø 2,95 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALUMINIUM + POLYESTER + ALUMINIUM TAPE		h. 12 mm
	-	COVERAGE	.....	100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER	.....	96 x 0,10 mm
	-	COVERAGE	.....	75%
<b>E</b>	<b>SHEATH</b>	NON-CONTAMINATING POLYVINYL-CHLORIDE		ø 5,00 ± 0,10 mm
	-	COLOUR	<b>BLACK - RAL 9004</b>	
	-	PRINTING	<b>## METER ## RANGEFUL RG58/U 50 OHM CU UV PVC LOW LOSS CABLE</b>	
			<b>CE WEEK/YEAR EN 50575:2014 + A1:2016 Eca MADE IN ITALY</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** 14,2
- **PLASTIC** 18,3
- **TOTAL** 33,5

### ELECTRICAL PROPERTIES at 20°C

**IMPEDANCE** 50 ± 3 Ohm

**CAPACITANCE** 80 pF/m

**VELOCITY RATIO** 80%

#### RESISTANCE

- **INNER CONDUCT.** 22,5 Ohm/Km
- **BRAID** 20,5 Ohm/Km

#### TENSION

- **SHEATH** 4,0 kV

#### SPARK TESTING

#### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
5	MHz	2,6	2121
10	MHz	3,5	1500
30	MHz	5,8	866
50	MHz	7,5	671
150	MHz	12,2	387
220	MHz	14,8	320

#### MAX. POWER RATING W

		<b>dB</b>	<b>W</b>
450	MHz	21,6	224
600	MHz	25,2	194
800	MHz	29,5	168
900	MHz	31,3	158
1000	MHz	33,4	150
1500	MHz	42,0	122

		<b>dB</b>	<b>W</b>
1800	MHz	46,4	112
2000	MHz	49,4	106
2500	MHz	55,2	95
3000	MHz	60,8	87
5200	MHz	84,1	66
5800	MHz	89,5	62

#### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>22	2000 ÷ 3000	MHz	>17
450 ÷ 1000	MHz	>20	3000 ÷ 4000	MHz	>16
1000 ÷ 2000	MHz	>19	4000 ÷ 5800	MHz	>15

#### SCREENING EFFECTIVENESS dB

100 ÷ 900	MHz	>80
900 ÷ 2000	MHz	>70
2000 ÷ 3000	MHz	>60

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