



# RANGEFUL



## HF 240 PVC

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

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

<b>CU</b> ø 1,40 mm	<b>PEG</b> ø 3,80 mm	<b>LAS</b> ø 3,90 mm	<b>CS</b> ø 4,30 mm	<b>PVC2</b> ø 6,10 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 1,40 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	<b>BLACK - RAL 9004</b>		
	- PRINTING	## METER ## RANGEFUL HF240 50 OHM CU UV PVC LOW LOSS CABLE CE WEEK/YEAR EN 50575:2014 + A1:2016 Eca MADE IN ITALY		

#### 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

<b>IMPEDANCE @ 200 MHz</b>	50 ± 1,5 Ohm	<b>RESISTANCE</b>	
		- <b>INNER CONDUCT.</b>	11,5 Ohm/Km
<b>CAPACITANCE</b>	80 pF/m	- <b>BRAID</b>	16,2 Ohm/Km
<b>VELOCITY RATIO</b>	84%	<b>TENSION</b>	
		- <b>SHEATH</b>	4,5 kV
		- <b>SPARK TESTING</b>	

#### ATTENUATIONS dB/100 m.

		<b>dB</b>	<b>W</b>
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

		<b>dB</b>	<b>W</b>
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

		<b>dB</b>	<b>W</b>
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	2000 ÷ 3000	MHz	>23
450 ÷ 1000	MHz	>29	3000 ÷ 4000	MHz	>23
1000 ÷ 2000	MHz	>26	4000 ÷ 5800	MHz	>14

#### 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.