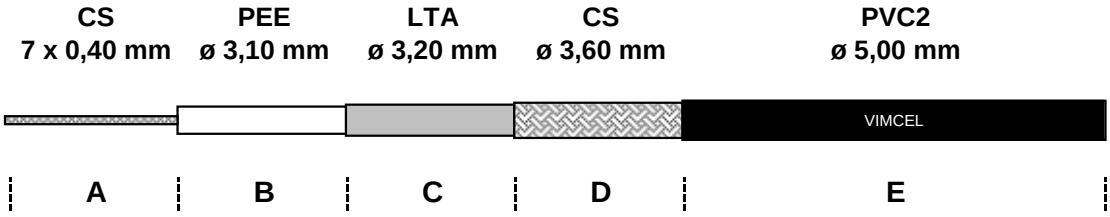
HF 50 Low Loss

DOUBLE SCREENED 50 OHM RF COAXIAL CABLE



MECHANICAL DATA

A	**INNER CONDUCTOR**	TINNED COPPER	**7 x 0,40 mm**
B	**DIELECTRIC**	FOAM POLYETHYLENE	**ø 3,10 ± 0,10 mm**
C	**SHIELD**	ALUMINIUM + POLYESTER + ALUMINIUM TAPE	**h. 12 mm**
	- COVERAGE		**100%**
D	**BRAID**	TINNED COPPER	**96 x 0,10 mm**
	- COVERAGE		**72%**
E	**SHEATH**	NON-CONTAMINATING POLYVINYL-CHLORIDE	**ø 5,00 ± 0,10 mm**
	- COLOUR	**BLACK - RAL 9004**	
	- PRINTING	**VIMCEL HF 50 Low Loss**	

MINIMUM BENDING RADIUS (mm)

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

TAMPERATURE RANGE -30 °C / +70 °C

CABLE WEIGHT (Kg/Km)

- **COPPER** 15.3
- **PLASTIC** 17.6
- **TOTAL** 33.9

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE 50 ± 3 Ohm

CAPACITANCE 80 pF/m

VELOCITY RATIO 80%

RESISTANCE

- **INNER CONDUCTOR** 20,5 Ohm/Km
- **BRAID** 20,0 Ohm/Km

TENSION

- **SHEATH SPARK TESTING** 3,5 kV

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	3.2	
10	MHz	4.4	
50	MHz	9.6	
100	MHz	12.8	
200	MHz	17.9	
300	MHz	22.1	

MAX. POWER RATING W

		dB	W
400	MHz	25.6	
600	MHz	32.1	
800	MHz	37.5	
1000	MHz	42.4	
1350	MHz	49.8	
1500	MHz	54.5	

		dB	W
1750	MHz	59.0	
2150	MHz	66.6	
2250	MHz	67.9	
2500	MHz	74.1	
2750	MHz	77.3	
3000	MHz	82.9	

STRUCTURAL RETURN LOSS dB

30 ÷ 300	MHz	>28	1000 ÷ 2000	MHz	>16
300 ÷ 600	MHz	>24	2000 ÷ 3000	MHz	>15
600 ÷ 1000	MHz	>22	é .. ÷ é ..	MHz	-

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.

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