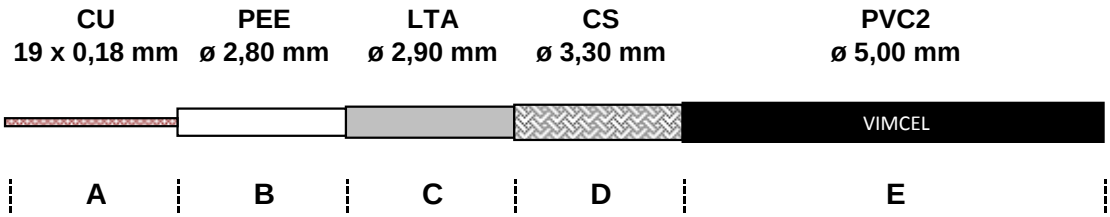
HF 50 Low Loss

DOUBLE SCREENED 50 OHM RF COAXIAL CABLE



MECHANICAL DATA

A	**INNER CONDUCTOR**	PLAIN COPPER	**19 x 0,18 mm**
B	**DIELECTRIC**	FOAM POLYETHYLENE	**ø 2,80 ± 0,10 mm**
C	**SHIELD**	ALUMINIUM + POLYESTER + ALUMINIUM TAPE	**h. 12 mm**
	- COVERAGE		**100%**
D	**BRAID**	TINNED COPPER	**96 x 0,10 mm**
	- COVERAGE		**76%**
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)		**CABLE WEIGHT (Kg/Km)**	
- **SINGLE**	ø EXTERNAL X 5	- **COPPER**	11.7
- **REPEATED**	ø EXTERNAL X 10	- **PLASTIC**	19.8
TEMPERATURE RANGE	-30 °C / +70 °C	- **TOTAL**	32.5

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE	50 ± 5 Ohm	**RESISTANCE**	
		- **INNER CONDUCT.**	36,5 Ohm/Km
CAPACITANCE	80 pF/m	- **BRAID**	20,0 Ohm/Km
		TENSION	
VELOCITY RATIO	80%	- **SHEATH SPARK TESTING**	4,0 kV

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	3.3	
10	MHz	4.5	
50	MHz	9.8	
100	MHz	13.0	
200	MHz	18.2	
400	MHz	26.3	

MAX. POWER RATING W

		dB	W
500	MHz	29.8	
600	MHz	32.7	
800	MHz	38.1	
1000	MHz	43.1	
1350	MHz	50.6	
1500	MHz	55.3	

		dB	W
1750	MHz	59.9	
2150	MHz	67.6	
2250	MHz	68.9	
2500	MHz	75.2	
2750	MHz	78.5	
3000	MHz	84.1	

STRUCTURAL RETURN LOSS dB

30 ÷ 300	MHz	>25	1000 ÷ 2000	MHz	>15	100 ÷ 900	MHz	>85
300 ÷ 600	MHz	>22	2000 ÷ 3000	MHz	>14	900 ÷ 2000	MHz	>75
600 ÷ 1000	MHz	>17	é .. ÷ é ..	MHz	-	2000 ÷ 3000	MHz	>65

SCREENING EFFECTIVENESS dB

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

VIMCOM AG Trockenloostrasse 29 CH-8105 Regensdorf
Tel. 0041 44 751 77 00 Fax 0041 44 751 77 10 Home page: http://www.vimcom.ch E-mail: info@vimcom.ch