HF 300 / 5D-FB

HIGH PERFORMANCE BROADBAND LOW LOSS 50 OHM COAXIAL COMMUNICATION CABLE DESIGNED FOR USE IN WIRELESS APPLICATIONS IN ACCORDANCE TO : IEC 60754-1 IEC 60754-2 IEC 61034-2

Class CPR E_{ca}

CU	PEG	LAS	CS	PVC2
ø 1,78 mm	ø 4,85 mm	ø 4,95 mm	ø 5,45 mm	ø 7,60 mm



A	B	C	D	E

MECHANICAL DATA

A	**INNER CONDUCTOR**	PLAIN COPPER	**ø 1,78 mm**
B	**DIELECTRIC**	GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE	**ø 4,85 ± 0,10 mm**
C	**SHIELD**	ALL + PET + ALL ADHESIVE TAPE	**h. 18 mm**
		- COVERAGE	**100%**
D	**BRAID**	TINNED COPPER	**144 x 0,12 mm**
		- COVERAGE	**82%**
E	**SHEATH**	NON-CONTAMINATING POLYVINYL-CHLORIDE	**ø 7,60 ± 0,10 mm**

- COLOUR **BLACK - RAL 9004**
- PRINTING **## METER ## RANGEFUL HF300 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 ESTERNO X 5
- **REPEATED** ø ESTERNO X 10

TEMPERATURE RANGE -40 °C / +80 °C

CABLE WEIGHT (Kg/Km)
- **COPPER** 38,5
- **PLASTIC** 40,3
- **TOTAL** 81,0

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE @ 200 MHz **50 ± 1,5 Ohm**

CAPACITANCE 80 pF/m

VELOCITY RATIO 84%

RESISTANCE
- **INNER CONDUCT.** 7,0 Ohm/Km
- **BRAID** 11,2 Ohm/Km

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

ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,5	5020
10	MHz	2,0	3550
30	MHz	3,3	2050
50	MHz	4,3	1588
150	MHz	7,3	917
220	MHz	9,0	757

MAX. POWER RATING W

		dB	W
450	MHz	13,2	529
600	MHz	15,4	458
800	MHz	18,2	397
900	MHz	19,0	374
1000	MHz	20,3	355
1500	MHz	25,3	290

		dB	W
1800	MHz	28,0	265
2000	MHz	30,2	251
2500	MHz	33,5	225
3000	MHz	37,4	205
5200	MHz	51,9	156
5800	MHz	55,3	147

STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>32	2000 ÷ 3000	MHz	>23	100 ÷ 900	MHz	>95
450 ÷ 1000	MHz	>29	3000 ÷ 4000	MHz	>23	900 ÷ 2000	MHz	>85
1000 ÷ 2000	MHz	>26	4000 ÷ 5800	MHz	>14	2000 ÷ 3000	MHz	>75

SCREENING EFFECTIVENESS dB

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

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