



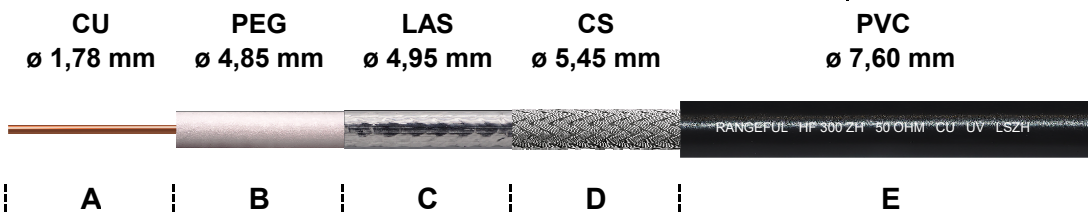
RANGEFUL



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}**



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
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.