



FABBRICA CAVI - ANTENNE - ACCESSORI TV

HF 300 PE

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

Class CPR **F_{ca}**

CU **PEG** **LAS** **CS** **PE**
 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 | CARBON BLACK POLYETHYLENE | | ø 7,60 ± 0,10 mm |
| | - COLOUR | BLACK - RAL 9004 | | |
| | - PRINTING | ## METER ## HF 300 PE HIGH PERFORMANCE LOW LOSS CABLE 50 OHM | | |
| | | 1,78 / 4,85 / 7,60 MADE IN ITALY CE 58 SETT/ANNO | | |

MINIMUM BENDING RADIUS (mm)

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

TEMPERATURE RANGE -40 °C / +75 °C

CABLE WEIGHT (Kg/Km)

- **COPPER** 38,5
- **PLASTIC** 27,4
- **TOTAL** 68,1

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** 8,0 kV
- **SPARK TESTING**

ATTENUATIONS dB/100 m.

| | | dB | W |
|-----|-----|-----------|----------|
| 5 | MHz | 1,3 | 5020 |
| 10 | MHz | 1,9 | 3550 |
| 30 | MHz | 3,0 | 2050 |
| 50 | MHz | 4,1 | 1588 |
| 150 | MHz | 6,9 | 917 |
| 220 | MHz | 8,9 | 757 |
| 450 | MHz | 13,0 | 529 |

MAX. POWER RATING W

| | | dB | W |
|------|-----|-----------|----------|
| 600 | MHz | 15,1 | 458 |
| 800 | MHz | 17,4 | 397 |
| 900 | MHz | 18,8 | 374 |
| 1000 | MHz | 20,0 | 355 |
| 1500 | MHz | 24,8 | 290 |
| 1800 | MHz | 27,2 | 265 |
| 2000 | MHz | 28,9 | 251 |

| | | dB | W |
|-------|-----|-----------|----------|
| 2500 | MHz | 33,0 | 225 |
| 3000 | MHz | 36,5 | 205 |
| 5200 | MHz | 50,9 | 156 |
| 5800 | MHz | 54,0 | 147 |
| 6000 | MHz | 55,2 | 144 |
| 8000 | MHz | 65,5 | 126 |
| 10000 | MHz | 75,3 | 112 |

STRUCTURAL RETURN LOSS dB

| | | | | | |
|-------------|-----|-----|--------------|-----|-----|
| 30 ÷ 450 | MHz | >26 | 3000 ÷ 4000 | MHz | >20 |
| 450 ÷ 1000 | MHz | >25 | 4000 ÷ 5800 | MHz | >19 |
| 1000 ÷ 2000 | MHz | >22 | 5800 ÷ 8000 | MHz | >18 |
| 2000 ÷ 3000 | MHz | >21 | 8000 ÷ 10000 | MHz | >17 |

SCREENING EFFECTIVENESS dB

| | | |
|-------------|-----|------|
| 100 ÷ 900 | MHz | >100 |
| 900 ÷ 2000 | MHz | >95 |
| 2000 ÷ 3000 | MHz | >85 |

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