



FABBRICA CAVI - ANTENNE - ACCESSORI TV

HF 240 FX-PVC

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

Class CPR **E_{ca}**

| | | | | |
|--------------------------|-------------------------|-------------------------|------------------------|--------------------------|
| CU 7 x 0,47 mm | PEG ø 3,80 mm | LTA ø 3,90 mm | CS ø 4,30 mm | PVC2 ø 6,10 mm |
|--------------------------|-------------------------|-------------------------|------------------------|--------------------------|



|| A || B || C || D || E ||

MECHANICAL DATA

| | | | |
|----------|------------------------|--|------------------|
| A | INNER CONDUCTOR | PLAIN COPPER | 7 x 0,47 mm |
| B | DIELECTRIC | GAS INJECTED SKIN-FOAM-SKIN POLYETHYLENE | ø 3,80 ± 0,10 mm |
| C | SHIELD | ALUMINIUM + POLYESTER + ALUMINIUM TAPE | h. 15 mm |
| | - COVERAGE | | 100% |
| D | BRAID | TINNED COPPER | 128 x 0,10 mm |
| | - COVERAGE | | 77% |
| E | SHEATH | NON-CONTAMINATING POLYVINYL-CHLORIDE | ø 6,10 ± 0,10 mm |
| | - COLOUR | BLACK - RAL 9004 | |
| | - PRINTING | ## METER ## HF 240 FX - PVC HIGH PERFORMANCE LOW LOSS FLEXIBLE CABLE 50 OHM | |
| | | 7x0,47 / 3,80 / 6,10 MADE IN ITALY CE 58 SETT/ANNO EN 50575:2014 + A1:2016 Eca | |

MINIMUM BENDING RADIUS (mm)

| | |
|--------------------------|-----------------|
| - SINGLE | ø EXTERNAL X 5 |
| - REPEATED | ø EXTERNAL X 10 |
| TEMPERATURE RANGE | -30 °C / +70 °C |

CABLE WEIGHT (Kg/Km)

| | |
|-----------|------|
| - COPPER | 20,4 |
| - PLASTIC | 26,0 |
| - TOTAL | 47,8 |

ELECTRICAL PROPERTIES at 20°C

| | | | |
|----------------------------|------------|----------------------|-------------|
| IMPEDANCE @ 200 MHz | 50 ± 2 Ohm | RESISTANCE | |
| CAPACITANCE | 80 pF/m | - INNER CONDUCT. | 15,5 Ohm/Km |
| VELOCITY RATIO | 84% | - BRAID | 16,2 Ohm/Km |
| | | TENSION | |
| | | - SHEATH | 4,5 kV |
| | | SPARK TESTING | |

ATTENUATIONS dB/100 m.

| | | dB | W |
|-----|-----|-----------|----------|
| 5 | MHz | 1,9 | 3253 |
| 10 | MHz | 2,8 | 2300 |
| 30 | MHz | 4,5 | 1328 |
| 50 | MHz | 6,0 | 1029 |
| 150 | MHz | 9,6 | 594 |
| 220 | MHz | 12,2 | 490 |

MAX. POWER RATING W

| | | dB | W |
|------|-----|-----------|----------|
| 450 | MHz | 18,0 | 343 |
| 600 | MHz | 20,9 | 297 |
| 800 | MHz | 23,9 | 257 |
| 900 | MHz | 25,9 | 242 |
| 1000 | MHz | 27,4 | 230 |
| 1500 | MHz | 33,9 | 188 |

| | | dB | W |
|------|-----|-----------|----------|
| 1800 | MHz | 37,5 | 171 |
| 2000 | MHz | 40,0 | 163 |
| 2500 | MHz | 45,4 | 145 |
| 3000 | MHz | 50,0 | 133 |
| 5200 | MHz | 72,1 | 101 |
| 5800 | MHz | 76,2 | 96 |

STRUCTURAL RETURN LOSS dB

| | | | | | |
|-------------|-----|-----|-------------|-----|-----|
| 30 ÷ 450 | MHz | >24 | 2000 ÷ 3000 | MHz | >19 |
| 450 ÷ 1000 | MHz | >23 | 3000 ÷ 4000 | MHz | >18 |
| 1000 ÷ 2000 | MHz | >20 | 4000 ÷ 5800 | MHz | >17 |

SCREENING EFFECTIVENESS dB

| | | |
|-------------|-----|-----|
| 100 ÷ 900 | MHz | >95 |
| 900 ÷ 2000 | MHz | >90 |
| 2000 ÷ 3000 | MHz | >80 |

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