

*Camerano, January 2021*

## *Certificate of Conformity*

### **ELANFIRE CR1 C1**

We, ELAN SRL, **CERTIFY** that the cables marked with:

**"ELANFIRE CR1 C1 "Sect." – CEI 20-22/3-5 – CEI EN60332-3-25 – CEI 20-36 - CEI 20-37 - EN 50200 (PH120) – CEI 20-105 – UNI 9795 – CEI 36762 C-4 (U<sub>0</sub>=400) – CE "**

are manufactured in accordance with the following requirements:

Fire-resistant according to NF C 32-070 standard, CR1 test (voltage 300/500 V).

Fire-resistant according to IEC 60331-21 90 minutes (voltage 600/1000 V).

Fire retardant according to NF C 32-070 standard C1, IEC 60332-3-22, IEC 60332-3-24. Flame retardant according to NF C 32-070 test C2 and IEC 60332-1-1. Halogen free according to IEC 60754-1. No smoke corrosiveness according to IEC 60754-2. Low smoke opacity according to IEC 61034-2.

These cables correspond to the demands of System Circuit Integrity E30-E60-E90 in accordance with DIN 4102-12 and VDE 0472 part 814 (FE180).



#### MANUFACTURING TECHNICAL FEATURES

##### **1. UNIPOLAR WIRES:**

Unipolar wires (1.50 flex and 0.8 rigid) are insulated in glass/mica fire resistant tape and LSZH crosslinked compound E4 type. They have good resistance to low and high temperatures and they are fire resistant according to CEI 20-36; IEC 60331; BS 6387; EN50200 (PH120). They pass the test of voltage according to CEI 20-20 standard: 5 minutes with 2000 V. in dry current without any crack of insulation covering.

##### **2. SHIELDING:**

The wires are twisted and the shielding is made of:

- Coupled ribbon of aluminium/polyester foil 9/12 microns.
- Drainage wire in tinned copper braid conductors.
- Polyester ribbon 12 micron thick placed on joined cables according to CEI 46-5 standard.

##### **3. JACKET:**

The jacket is in ORANGE **LSZH** compound and it is fire retardant according to CEI 20-22/III (IEC 60332-3; BSEN 50265) Standards and with low smoke and zero halogen according CEI 20-37 (IEC 60754; IEC 61034; BSEN 50267; BSEN 50268).

Cables marked as C-4 (U<sub>0</sub>=400V) owing to their technical characteristics and the positive results obtained by passing the tests, can be installed with electrical power cables marked both 450/750V, and 0,6/1 Kv according to CEI UNEL 36762 and can be used in outdoor applications.

*Elan Srl*



FIRE RESISTANT



LOW SMOKE  
EMISSION



HALOGEN FREE



ESTERNO /  
OUTDOOR



FIRE RETARDANT



CON CAVI Elett.  
WITH POWER CABLES