



INNOVCABLE FIRE ALARM BF - 600V - NBR 17240



- 1) **Stranded conductor formed by electrolytic bare copper wires, soft temper, class 2 NBR NM 280 stranding.**
- 2) **Insulation in thermoplastic compound based on thermoplastic compound based on polyvinyl chloride (PVC/A) 70° C.**
- 3) **Conductors in pairs or suits.**
Pair: Black / Red.
Tern: Black / Red / White.



4) *Pitch of twist: 50 to 65mm*

5) *Separator in polyester tape and collective shield in aluminized polyester tape, with flexible drain conductor of section 0,5 mm², formed by tinned electrolytic copper wires.*

6) *Covering in thermoplastic compound based on polyvinyl chloride (PVC/E) 105° C in red colour.*

- *Insulation voltage: 600V - NBR 6148*

- *Routine tests:*

Electrical resistance of the conductor at 20°C

Alternating current electric tension

Insulation resistance.

Identification

INNOVCABLE FIRE ALARM BF X X mm² 600V 70°C NBR 17240 OF:XXXX/YEAR.

Applicable Specifications

NBR - 6880 - Copper conductors for insulated cables - standardization

NBR - 6148 - Conductors with extruded polyvinyl chloride (PVC) insulation for voltages up to 750V - specification.

NBR - 9441 - Execution of fire detection and fire alarm systems

NBR 17240 - Fire detection and fire alarm systems - Design, installation, commissioning and maintenance of fire detection and fire alarm systems - Requirements



NBR - 10898 - Emergency lighting system

NBR - 13848 - Add manual

NBR - 11836 - Smoke detector

Applications

They are used in fixed installations of fire alarm systems for conducting analog (4 - 20mA) and digital signals, point-to-point instrumentation, Hart ® protocol, connections of various sensors and meters, power supply to conventional and electronic relays, in industrial environments generally related to fire alarm and detection systems, intruder security systems, remote measurement systems and emergency lighting systems.

FIRE ALARM BF 600V cables are recommended for those cases in which excellent levels of protection against external electromagnetic interferences are required, and maximum immunity against the appearance of "crosstalk" (diaphonia) between the various pairs/pairs, providing electrical discharge of the same. Cable constructed to comply with NBR 17240.

Excellent flexibility, resistance to chemicals, humidity and UV rays, anti-flame and self-extinguishing complying with the vertical flame propagation tests, according to NBR NM IEC 60332-3-23, category B.

Maximum Conductor Temperature

Conductor temperature under continuous regime: 70°C (PVC/A)

Temperature of the external layer: 105°C (PVC/E).

- Can be made with other insulations:

Vein insulation material / other temperatures:

PVC/A -70 °C



XLPE - 125 °C or 90 °C

HEPR - 90 °C

PE - 80 °C

Notes

OTHER CONFIGURATIONS CAN BE MANUFACTURED ON REQUEST:

1- Tinned copper conductor.

Class 1, 4 or 5 stranding.

Quad formation.

2- Different sections and number of veins.

3- Vein insulation material / other temperatures:

PVC/E -105 °C

XLPE - 125 °C or 90 °C

HEPR - 90 °C

PE - 80 °C

4- Material of the intermediate layer and the cover:

PE

PVC/ST1

PVC/ST2

Special PVC resistant to oils, grease and other chemical products.

LSZH (non-halogenated polyolefin compound)

5- Cover perfectly cylindrical for applications with cable glands in classified areas (Ex)

6- Insulation voltage: 300V, 750V or 0,6/1KV.

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DIMENSIONAIS

Bitola	Isolação	Espessura	Cobertura	Peso
(mm ²)	Nominal	Nominal	Nominal	liq./Km
1Px0.32	1.84	0.60	4.90	32.0
1Px0.50	2.01	0.60	5.10	37.0
1Px0.75	2.22	0.60	5.50	45.0
1Px1.00	2.35	0.60	5.90	52.0
1Px1.50	2.49	0.60	6.30	59.0
1P X 2.50	2.58	0.60	6.60	64.0

CARACTERÍSTICAS ELÉTRICAS

Secção	Fio	Resistência Ohmica	Resistência Isolação	Centelhamento
(mm ²)	Nominal	(Ω/Km máx.)	(MΩ/Km a 500v min.)	KVAC
0.30	643	62.20	84.4	5.0
0.50	813	35.00	72.7	5.0
0.75	1.024	24.80	62.4	5.0
1.00	1.150	18.20	57.4	5.0
1.35	1.290	13.80	52.8	5.0
1.50	1.380	12.20	50.2	5.0
2.50	15 x 0.455	8.21	45.9	6.0