

Cabos FIPEX ALBF MT - 15/25 kV

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Nexans ref.: Cabos FIPEX ALBF MT - 15 até 25 kV

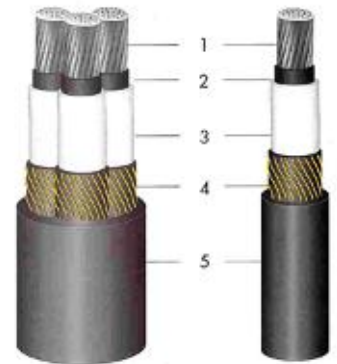
Cabos FIPEX ALBF MT - 15/25 kV

DESCRIPTION

The FIPEX BF cables are used in power supply circuits and distribution enrgía in substations, industrial and commercial facilities and can be instalados outdoors, in ducts, channels, directly buried in the ground, bank ducts or trays.

Constructive description

1. **Conductor aluminum:** Class 2
2. **Conductor shield:** thermoset compound semiconductor
3. **Insulation:**Composed of thermosetting Cross-linked Polyethylene (XLPE) for operating temperature of 90 ° C conductor, meeting the physical requirements perscritos by NBR 6251
4. **Insulation shield :** non-metallic shield to the base compound semiconductor thermoset and metal shield on bare copper wires, annealed, aplecados helicoidalmente with nominal section of 6 mm²
5. **Coverage:** Polyvinyl thermoplastic compound chloride (PVC) in black, taking into account physical requirements prescribed by NBR 6251 type ST2



STANDARDS

National ABNT NBR 6251 ;
ABNT NBR 7287 ;
ABNT NBR NM 280

Notes

- **Identification of conductors:**three-pole cable in the identification of the phases is made by means of narrow ribbon white, black and red, veins and marking applied on Phase A, Phase B and Phase C on the cover
- **Section of the metal shield:** for shielded cables section than 6 mm² due to particular conditions of short circuit Terra Phase X or in the case of tinned copper wires, should be asked specific cable design.
- **Installation in conduits:**we recommend a preliminary study of the occupancy rate and duct mateial, including induction effects when metal.

Maximum conductor temperatures

90 °C in continuous service

130 °C overcharging

250 °C shorted

Specifications

NBR 7287 - Power cables with extruded insulation of cross-linked polyethylene (XLPE) for voltages of 1 kV to 35 kV - Performance requirements.

NBR NM 280 - Conductors of insulated cables.

NBR 6251 - Power cables with extruded insulation for rated voltages from 1 kV to 35 kV - building requirements



Mechanical resistance to impacts
Good



Bending factor when laying
12 (xD)



Fire resistant
IEC 60332-1



Ambient installation T°C range
-5 .. 60 °C



Weather resistance
Good



Max. conductor temp.in service
90 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics

Conductor material	Aluminum
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Dimensional characteristics

Number of cores	1
Conductor cross-section	50 mm ²
Conductor diameter	8.11 mm
Nominal insulation thickness	6.8 mm
Diameter over insulation	24.0 mm
Protective Covering Nominal Thickness	1.7 mm
Outer Diameter	30 mm
Approximate weight	834 kg/km

Mechanical characteristics

Mechanical resistance to impacts	Good
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Usage characteristics

Bending factor when laying	12 (xD)
Fire resistant	IEC 60332-1
Ambient installation temperature, range	-5 .. 60 °C
Weather resistance	Good
Max. conductor temperature in service	90 °C
Overload maximum core temperature	130 °C
Short-circuit max. conductor temperature	250 °C

CURRENT CARRYING CAPACITY FOR RATED VOLTAGE OF 15/25 KV

Conductors in open air - conductor temperature: 90°C - Ambient temperature: 30°C

Conductor cross-section [mm ²]	 AI	 AI	 AI	 AI	 AI	 AI	 AI	 AI	 AI
50	201	174	174	172	154	154	129	129	129
70	251	217	217	212	190	190	159	159	159
95	306	264	264	256	230	230	192	192	192
120	354	306	306	293	264	264	220	220	220
150	402	348	348	330	299	299	248	248	248
185	465	400	400	377	341	341	283	283	283
240	550	472	472	440	399	399	333	333	333
300	630	541	541	498	454	454	378	378	378
400	740	634	634	575	525	525	437	437	437
500	858	733	733	657	601	601	501	501	501

 In tray	 In tray	 In tray
 Cable trunking	 Cable trunking	 Cable trunking
 In conduit	 In conduit	 In conduit

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CURRENT CARRYING CAPACITY FOR RATED VOLTAGE OF 15/25 KV

Conductors directly in the ground; Conductor temperature: 90° C; Ambient temperature: 20 °C; Soil thermal resistivity: 2,5 k.m/W

Conductor cross-section [mm²]	 AI	 AI	 AI	 AI	 AI	 AI
50	115	100	100	137	117	117
70	141	121	121	166	143	143
95	168	145	145	196	170	170
120	191	164	164	221	193	193
150	213	183	183	246	216	216
185	241	207	207	276	244	244
240	280	239	239	316	282	282
300	315	269	269	352	317	-
400	361	306	306	399	363	-
500	410	347	347	448	412	-
 In duct bank	 In duct bank	 In duct bank				
 Cables direct in the ground	 Cables direct in the ground	 Cables direct in the ground				

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