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Evolucable Industria de Cabos Especiais
Av. Minasa, 25 - Galpão B1 - Condomínio Industrial
Business Park -Sumaré/SP - Cep 13.180-400
Sumaré/SP (Fábrica): +55 19 3090-3350
São Paulo/SP: +55 11 3090-6855
Rio de Janeiro/RJ: +55 21 2042-0087

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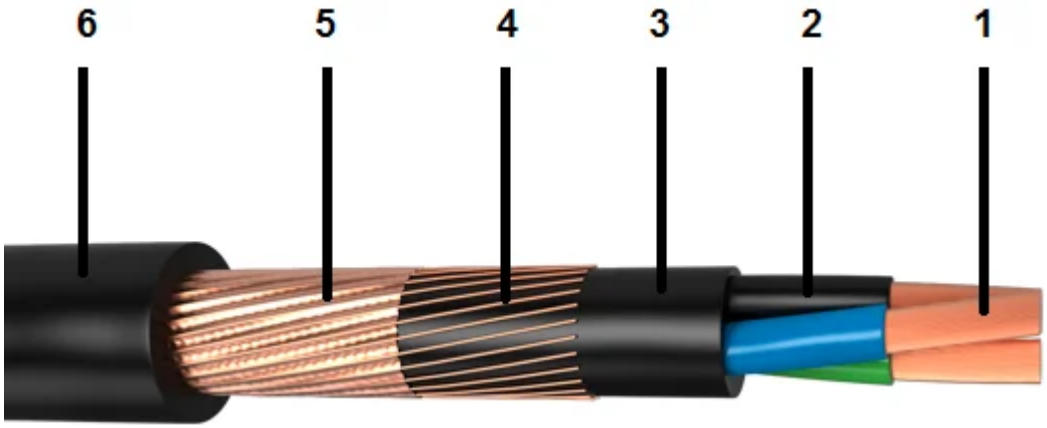
INNOVCABLE INNOVFREQUENCY - NBR 7286



PHASE CONDUCTOR:
1-) Phase conductor material : bare copper wires, soft temper. Conductor class: in accordance with DIN VDE 0295 class 5 and IEC 60228 cl. 5.

ISOLATION:
2-) Insulated with special compound in double layer (high modulus EPR/B) in Black, Blue and White colours. Twisted in layers.

FILLING:
3-) Special PVC protective intermediate cover.

CONCENTRIC CONDUCTOR:
4-) Helically applied copper wires. Section 50% of the phase conductor for sections greater than 16,0mm² and equal of the phase conductor for sections smaller than 16,0mm².

BLINDING:
5-) Copper tape of minimum thickness of 0.07mm with overlap.

COVER:
6-) External cover in special anti-fire PVC, resistant to bad weather and UV Rays. Black colour.

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- Manufactured free from noxious substances and silicone.
- Rated voltage: 0,6/1kv.
- Voltage test: 3.000 V.
- Conductor resistance: according to DIN VDE 0295 class 5 and IEC 60228 cl. 5
- Min. bending radius fixed use: 6 x d.
- Flame retardant according to IEC 60332-1.

- Routine tests:
Electrical resistance of the conductor at 20ºC
Alternating current electric tension
Insulation resistance.

Identification

External marking in accordance with NBR 7286.
Conductor colours: Black, Blue and White.
Outer cover colour: Black.

Applicable Specifications

ABNT/MERCOSUR: NM-280 and NM-IEC

DIN VDE 0295 class 5e IEC 60228 cl. 5

IEC 60332-1

ABNT: NBR 6251

NBR 5410/2004 - Installation

NBR 7286

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Applications

Suitable for applications in Frequency Inverters, they have the fourth concentric conductor applied helically on the intermediate layer. In order to reduce electrostatic interference copper tape is applied, ensuring a better performance of the inverter, flexible cable and easy installation with insulation that increases the current conduction capacity.

Maximum Conductor Temperature

Thermal limits according to ABNT NBR 6251:
- Permanent regime: 90ºC
- Overload conditions: 130ºC
- Short-circuit conditions: 250ºC

Notes

CONSTRUCTION OPTIONS
We can manufacture other configurations on request, in addition to those specified below:
1- Tinned copper conductor.
Class 2 stranding.
2- Different sections and number of veins, maximum up to
3- Vein insulation material / other temperatures:
XLPE - 90 ºC
PE - 80 ºC
4- Material of the intermediate layer and the cover:
PE
PVC/E
PVC/ST2
Special PVC resistant to oils, grease and other chemicals.
LSZH (non-halogenated polyolefin compound)
OTHER COMPOUNDS

- Constructions below 10.0mm² do not include the copper tape, with the neutral remaining concentric in the same gauge as the conductor.

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- We can produce on request several other cable options and configurations. Innovcable reserves the right to change this catalogue without prior notice.

No. de Condutores n x mm2/mm2	Diametro Ø mm ±10%	Peso Cobre kg/km	Peso Aprox. Cobre kg/km	AWG
2 x 10 / 10	19	312	650	8
2 x 16 / 16	21	489	850	6
2 x 25 / 25	24	763	1210	4
3 x 10 / 10	19.5	408	730	8
3 x 16 / 16	22	643	1000	6
3 x 25 / 16	26	902	1550	4
3 x 35 /16	27	1190	1750	2
3 x 50 / 25	29	1723	2250	1
3 x 70 / 35	33	2410	2950	2/0
3 x 95 / 50	38	3296	4100	3/0
3 x 120 / 70	41	4236	5050	4/0
3 x 150 / 70	45	5100	6000	250 MCM
3 x 185 / 95	50	6383	7550	350 MCM
4 x 10 / 10	20.5	504	890	8
4 x 16 / 16	23.5	796	1250	6
4 x 25 / 16	28	1142	1800	4
4 x 35 / 16	29	1526	2050	2
4 x 50 / 25	33	2203	2700	1
4 x 95 / 50	43.5	4208	5000	3/0
4 x 120 / 70	47.2	5388	6350	4/0
4 x 150 / 70	51	6540	7650	250 MCM