

FIRE RESISTANT
SAFETY CABLES

PYRISOL® 500 BEL



Approvals - standards

- Compliant with standard NF C 30-004:
 - > F1: Flame retardant (NBN EN 60332-1-2).
 - > F2: Fire retardant (NBN EN 50266-2-4).
 - > SD: Smoke density (NBN EN 61034).
 - > SA: Gas acidity (NBN EN 60754-2).
 - > FR1: Fire resistant (NBN EN 50200/NBN EN 250362).
 - > FR2: Fire-resistant (NBN 713-020/A3).
- Range approved by the Belgian Fire Safety Institute (ISIB).

Goedkeuringen / Normen

- Conform de norm NBN C 30-004 :
 - > F1: Niet vlamverspreidend (NBN EN 60332-1-2).
 - > F2: Niet brandverspreidend (NBN EN 50266-2-4).
 - > SD: Dichtheid van de rook (NBN EN 61034).
 - > SA : Zuurheid van de gassen (NBN EN 60754-2).
 - > FR1: Vuurbestendig (NBN EN 50200 / NBN EN 50362).
 - > FR2: Vuurbestendig (NBN 713-020/A3);
 - Gamma goedgekeurd door het Instituut voor Brandveiligheid (ISIB).

Applications

- Vital circuits as per the Royal decree of 25 April 2013.

Toepassingen

- Vitale stroombanen volgens het koninklijk besluit van 25 april 2013.

Markings

OMERIN – PYRISOL 500 BEL 300/500V <cross-section>
NBN C 30-004 F1 F2 SD SA FR1 FR2

Markering

OMERIN – PYRISOL 500 BEL 300/500V <doorsnede>
NBN C 30-004 F1 F2 SD SA FR1 FR2

Special arrangements must be made based on outside influences.
In particular, in an unsheltered outside installation, these cables must be protected from weather conditions and direct sunlight by being run in sleeves, wireway or cowl. PYRISOL 500 BEL cables are not designed to be buried or for permanent or temporary immersion.

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- Solid or stranded bare copper core, class 1 or 2 as per IEC 60228.
Massieve of samengeslagen kern in blank koper, klasse 1 of 2 volgens IEC 60228.
- E12 fire-resistant elastomer insulation.
Vuurbestendige elastomeer isolatie (E12).
- Outer sheath in halogen-free flame-retardant polyolefine.
Halogeenvrije, brandwerende polyolefine buitenmantel.

Characteristics

- Rated voltage: 300/500 V.
- Maximum core temperature: +90 °C.
- Minimum bending radius: 10 x diameter.

Eigenschappen

- Toegekende spanning : 300/500 V.
- Maximale temperatuur van de kern : + 90°C.
- Minimale buigingsstraal : 10 x buitendiameter.

Standard products

- Outer sheath: orange.
- Colour identification of conductors:
 - 1 conductor: black or white.
 - 2 conductors: blue-brown.
 - 3 conductors: brown-black-grey or green/yellow-blue-brown.
 - 4 conductors: blue-brown-black-grey or green/yellow-brown-black-grey.
 - 5 conductors: blue-brown-black-grey-black or green/yellow-blue-brown-black-grey.
 - 7 conductors: numbered conductors or green/yellow+numbered conductors.

Standaard producties

- Buitenmantel : oranje.
- Kleuren geleiders :
 - 1 geleider : zwart of wit.
 - 2 geleiders : blauw-bruin.
 - 3 geleiders : bruin-zwart-grijs of geel/groen-blauw-bruin.
 - 4 geleiders : blauw-bruin-zwart-grijs of geel/groen-bruin-zwart-grijs.
 - 5 geleiders : blauw-bruin-zwart-grijs-zwart of geel/groen-blauw-bruin-zwart-grijs.
 - 7 geleiders : genummerde geleiders of geel/groen+genummerde geleiders.

Nominal cross-section Nominale doorsnede (mm²)	Nominal outside diameter Nominale buitendiameter (mm)	Nominal cross-section Nominale doorsnede (mm²)	Nominal outside diameter Nominale buitendiameter (mm)	Nominal cross-section Nominale doorsnede (mm²)	Nominal outside diameter Nominale buitendiameter (mm)
1 x 16	Rf 120	9.4	3 x 1.5	Rf 90	7.4
1 x 25	Rf 120	10.5	3 x 2.5	Rf 90	8.7
1 x 35	Rf 120	11.9	3 x 4	Rf 90	10.4
1 x 50	Rf 120	13.9	3 x 6	Rf 90	12.8
1 x 70	Rf 120	15.3	3 x 10	Rf 90	16.2
1 x 95	Rf 120	17.6	3 x 16	Rf 90	18.3
1 x 120	Rf 120	19.2	3 x 25	Rf 90	21.5
1 x 150	Rf 120	21.3	3 x 35	Rf 90	24.1
1 x 185	Rf 120	23.9	3 x 50	Rf 90	28.2
1 x 240	Rf 120	26.6	3 x 70	Rf 90	30.9
1 x 300	Rf 120	30.0			
1 x 400	Rf 120	34.0			
2 x 1.5	Rf 90	6.9	4 x 1.5	Rf 90	8.3
2 x 2.5	Rf 90	8.2	4 x 2.5	Rf 90	9.7
2 x 4	Rf 90	9.8	4 x 4	Rf 90	11.6
2 x 6	Rf 90	11.8	4 x 6	Rf 90	14.1
2 x 10	Rf 90	15.2	4 x 10	Rf 90	17.9
2 x 16	Rf 90	17.2	4 x 16	Rf 90	20.5
2 x 25	Rf 90	20.0	4 x 25	Rf 90	23.9
2 x 35	Rf 90	22.4	4 x 35	Rf 90	26.8
2 x 50	Rf 90	26.2	4 x 50	Rf 90	31.3
2 x 70	Rf 90	28.8	4 x 70	Rf 90	34.3
7 x 1.5	Rf 90	10.8			
7 x 2.5	Rf 60	12.6			
7 x 4	Rf 60	14.6			

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the "x" (ex: 3G 1.5 mm²).
De multigeleiders met aardingsgeleider worden aangeduid met het symbool "G" in plaats van "x" (vb : 3 G 1.5 mm²).

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The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.
For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.
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