FIRE RESISTANT SAFETY CABLES

omerin
LES CABLES DE L'EXTREME





- ***The world's leading manufacturer of silicone-insulated wires and cables***
- ***Europe's leading manufacturer of glass-yarn braids***
- ***France's leading manufacturer of fire safety cables***

The Omerin group has been producing electrical cables for extreme conditions since 1959

At Omerin, we use our know-how and technology to develop increasingly high-performance products.

Our expertise is recognized in over 120 countries.

Omerin offers a wide range of high-performance products covering a large number of applications in very diverse industries, including the electrothermal construction, electromechanical, chemical, nuclear energy, railway, automotive, naval, aerospace, heavy industry, power plant and other sectors.
Our product range is further extended by varnished, impregnated and treated braided insulating sleevings, door seals for ovens, fireproof sleevings, thermocouple, extension and compensation cables as well as industrial braids.

Men and women at your service

The technical expertise of our teams is at your disposal, providing responses and solutions to all your requirements.

Our Methods, Quality and Research and Development Departments work permanently together with the aim of constantly improving our products and processes.

All our staff subscribe to this approach with their involvement and constant self-checking at all stages of production.

List of all the available catalogues:

Ultimately, this catalogue is the result of the passionate endeavours of an entire team, who have displayed great talent in writing it for you.

It is designed to be a simple and concise working tool for you, serving as a reference document that is able to meet the majority of your needs.

This catalogue, as well as ten others from our collection are available on line with real time updates and much more information at

www.omerin.com

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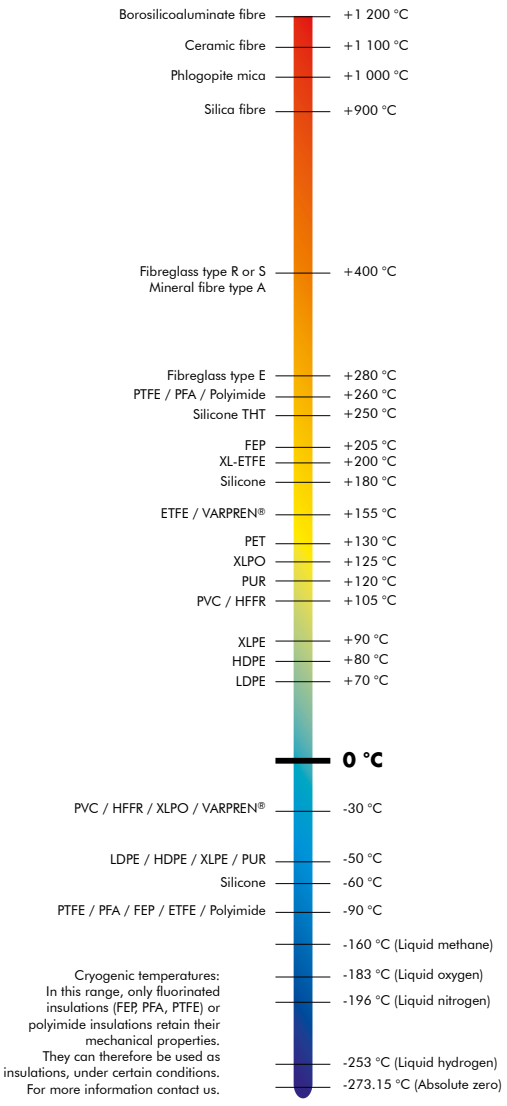
BIO-HABITAT®	Wires and cables for a home without electromagnetic interference
CERAFIL®	Miniature ceramic insulated wires for very high temperatures
COAXRAIL®	Coaxial cables for railway industry
COAXTHERM®	High temperature coaxial cables
COUPLIX®	Pyrometry cables (thermocouples, extension, compensation cables)
DATARAIL®	Data cables for the railway industry
ELECTROAIR®	Aerospace & Defence wires and cables
ENERSYL®	Electrical cables for power station and high risk sites
FLEXBAT®	Extra flexible battery cables
LUMIPLAST®	Wires and cables for lighting systems
METALTRESSE®	High performance metallic braids
MINOROC®	Very high tensile strength synthetic cables
MULTIMAX®	Power, control and instrumentation cables for the marine industry
MULTI-VX®	Hybrid data and power cables
ODIOSIS®	Sound, amplification and loudspeaker cables
OILPLAST®	Cables for industrial environments and intrinsically safe system
OMBILIFLEX®	High performance special multi-function cables
PLASTHERM®	Special thermoplastic insulated wires and cables
POWER CONNECT®	High performance power cords
PROFIPLAST®	Thermoplastic insulated wires and cables
PYRISOL®	Fire resistant power cables for safety circuits
PYRITEL®	Fire resistant communication cables for safety circuits
SILIBOX®	Wire and cables cardboard box packaging system
SILICABLE®	Special high temperature wires and cables
SILICOUL®	Low and medium voltage class H (180°C) power cables
SILIFLAM®	Very high safety cables for extreme temperatures
SILIFLON®	Fluoropolymer insulated high temperature wires and cables
SILIGAINE®	Braided insulating sleevings
SILIRAD®	Electron beam cross-linked cables
SILITUBE®	Braided or extruded tubes
SOLARPLAST®	Power cables for photovoltaic solar panels
SONDIX®	Platinum resistance temperature sensors connection cables
SPIRFLEX®	High performance spiral cables
TEXALARM®	Cables for safety systems and fire alarms
TS CABLES®	Coaxial and data cables
TS COM 900®	Telephonic cables for very speed reception
TS LAN®	Copper LAN cables
TWINLINK®	High temperature controlled impedance twisted pair cables
TWINPLAST®	Extra flexible cables for battery chargers or jump starters
VARPREN®	Wires and cables with special cross-linked Varpren® insulation
VEROX®	Fiberglass braided seals
VIDEOCOAX®	Analog and digital video cables

Thermal classification of insulations



Contents

FIRE RESISTANT SAFETY CABLES

PYRISOL® 500 EN
CR1-C1

1 • Solid or stranded bare copper core, class 1 or 2 as per IEC 60228.
2 • EI2 fire-resistant elastomer insulation.
3 • Outer sheath in halogen-free flame-retardant polyolefine.

Approvals - standards

- Fire-resistant as per NF C 32-070 CR1 test (voltage 300/500 V).
- Secured cable as per test report EFECTIS no. 11-H-304-A (except PYRISOL 500 E).
- Fire-resistant as per IEC 60331-21 90 minutes (voltage 600/1000 V).
- Fire retardant as per NF C 32-070 test C1, IEC 60332-3-22 and IEC 60332-3-24.
- Flame retardant as per NF C 32-070 test C2 and IEC 60332-1-2.
- Halogen free as per IEC 60754-1.
- No smoke corrosiveness as per IEC 60754-2.
- Low smoke opacity as per IEC 61034-2.
- Accepted to the NF-USE certification mark as per standards NF C 32-070 and NF C 32-310.

Applications

- Fire safety circuits in public-access or high-rise buildings. U30 of the ERP safety regulation validated by the French Central Safety Commission of 6 March 2014.

PYRISOL 500O EN cables will be installed in compliance with the regulations and the installation standard in force (NFC 15-100). 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 sleevings, wireway or cowl.
PYRISOL 500 EN cables are not designed to be buried or for permanent or temporary immersion.

Characteristics

General

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

Standard products

- Outer sheath: orange.

Conducting core/sheath*	
Nominal cross-section (mm²)	Outside diameter (mm)
1 x 1.5(1)	4.5
1 x 2.5(1)	5.2
1 x 4(1)	5.8
1 x 6(1)	6.5
1 x 10	8.2
1 x 16	9.4
1 x 25	10.5
1 x 35	11.9
1 x 50	13.9
1 x 70	15.3
1 x 95	17.6
1 x 120	19.2
1 x 150	21.3
1 x 185	23.9
1 x 240	26.6
1 x 300	30.0
1 x 400	34.0

Conducting core/sheath*	
Nominal cross-section (mm²)	Outside diameter (mm)
2 x 1.5	6.9
3 x 1.5	7.4
4 x 1.5	8.3
5 x 1.5	9.3
7 x 1.5	10.8
12 x 1.5	14.5
19 x 1.5	17.4
24 x 1.5(1)	22.0
27 x 1.5(1)	22.5
37 x 1.5(1)	24.7
2 x 2.5	8.2
3 x 2.5	8.7
4 x 2.5	9.7
5 x 2.5	11.0
7 x 2.5	12.6
12 x 2.5	16.3
19 x 2.5	19.4
24 x 2.5(1)	25.9
27 x 2.5(1)	26.1
37 x 2.5(1)	29.2
2 x 4	9.8
3 x 4	10.4
4 x 4	11.6
5 x 4	13.0
7 x 4	14.6
2 x 6	11.8
3 x 6	12.8
4 x 6	14.1
5 x 6	15.7
7 x 6(1)	19.0

Conducting core/sheath*	
Nominal cross-section (mm²)	Outside diameter (mm)
2 x 10	15.2
3 x 10	16.2
4 x 10	17.9
5 x 10	20.0
7 x 10(1)	23.0
2 x 16	17.2
3 x 16	18.3
4 x 16	20.5
5 x 16	22.7
2 x 25	20.0
3 x 25	21.5
4 x 25	23.9
5 x 25	26.6
2 x 35	22.4
3 x 35	24.1
4 x 35	26.8
5 x 35	29.9
2 x 50	26.2
3 x 50	28.2
4 x 50	31.3
5 x 50	35.0
2 x 70	28.8
3 x 70	30.9
4 x 70	34.3
2 x 95	33.5
3 x 95	36.0

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the "x" (ex: 3G 1.5 mm²).

* Nominal values.

(1) Outer brick red sheath in fire-resistant elastomer: reference PYRISOL 500 E.

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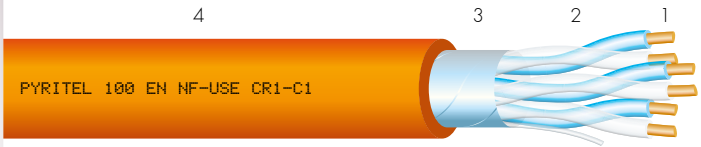
PYRITEL® 100 EN
CR1-C1



1 • Solid bare copper core Ø 0.9 mm.
2 • EI2 fire-resistant elastomer insulation.
3 • Electrical shielding: metallic tape + continuity wire.
4 • Outer sheath in halogen-free flame-retardant polyolefine (T) or in EI2 fire-resistant elastomer (E).

Approvals - standards

- Fire-resistant as per NF C 32-070 CR1 test.
- Fire-resistant as per IEC 60331-21, 90 minutes.
- Fire retardant as per NF C 32-070 test C1, IEC 60332-3-22 and IEC 60332-3-24.
- Flame retardant as per NF C 32-070 test C2 and IEC 60332-1-2.
- Halogen free as per IEC 60754-1.
- No smoke corrosiveness as per IEC 60754-2.
- Low smoke opacity as per IEC 61034-2.
- Accepted to the NF-USE certification mark as per standards NF C 32-070 and NF C 32-310.

Applications

- Fire safety circuits in public-access or high-rise buildings.

Options

- Individual and general shielding: reference SILIFLAM 500 TEL EI/EG.

PYRITEL 100 EN cables will be installed in compliance with the regulations and the installation standard in force (NFC 15-100). 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 sleevings, wireway or cowl.
PYRITEL 100 EN cables are not designed to be buried or for permanent or temporary immersion.

Characteristics

General

- Rated voltage: 100/170 V.
- Maximum core temperature: +90 °C.
- Minimum bending radius: 10 x diameter.

Standard products

- Outer sheath: orange.

Conductor*			Sheath*		
Number of pairs	Cross-sections (mm²)	Radial thickness	Outside diameter (mm)	Type	Colour
1	0.636	0.5	5.0 8.0	T	
2(1)	0.636	0.5	7.0 11.0	T	
3	0.636	0.5	7.5 11.5	T	
5	0.636	0.5	9.0 14.0	T	
7(2)	0.636	0.5	11.0 16.0	E	
10(2)	0.636	0.5	13.0 18.0	E	
15(2)	0.636	0.5	16.5 21.5	E	
21(2)	0.636	0.5	19.0 24.5	E	
30(3)	0.636	0.5	23.5 29.0	E	
42(3)	0.636	0.5	29.0 35.5	E	
56(3)	0.636	0.5	35.0 42.0	E	

Colour of conductors*

Number of pairs	Conductor 1	Conductor 2
1	White	Blue
2 to 5	White + no.	Blue + no.
7 to 56	White + no.	Blue
	or two-colour pair	

* Nominal values.
(1) Assembled as a quad
(2) Ref. SILIFLAM 500 TEL
(3) Ref. PYRITEL

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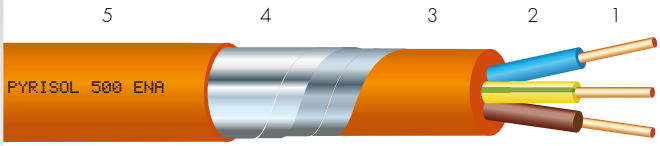
PYRISOL® 500 ENA
CR1-C1



1 • Solid or stranded bare copper core, class 1 or 2 as per IEC 60228.
2 • EI2 fire-resistant elastomer insulation.
3 • Inner sheath in halogen-free flame-retardant polyolefine.
4 • Double steel tape.
5 • Outer sheath in halogen-free flame-retardant polyolefine.

Approvals - standards

- Fire-resistant as per NF C 32-070 CR1 test (voltage 300/500 V).
- Fire-resistant as per IEC 60331-21, 90 minutes (voltage 600/1000 V).
- Fire retardant as per NF C 32-070 test C1, IEC 60332-3-22 and IEC 60332-3-24.
- Flame retardant as per NF C 32-070 test C2 and IEC 60332-1-2.
- Halogen free as per IEC 60754-1.
- No smoke corrosiveness as per IEC 60754-2.
- Low smoke opacity as per IEC 61034-2.
- Accepted to the NF-USE certification mark as per standards NF C 32-070 and NF C 32-310.

Applications

- Fire safety circuits in public-access and high-rise buildings.

PYRISOL 500 ENA cables in compliance with the regulations and the installation standard in force (NFC 15-100). 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 sleevings, wireway or cowl.
PYRISOL 500 ENA cables are not designed to be buried or for permanent or temporary immersion.

Characteristics

General

- Rated voltage: 300/500 V.
- Maximum core temperature: +90 °C.
- Minimum bending radius: 20 x diameter.

Standard products

- Outer sheath: orange.

Conducting core/sheath*		Conducting core/sheath*	
Cross-section (mm²)	Outside diameter (mm)	Cross-section (mm²)	Outside diameter (mm)
2 x 1.5	9.7	2 x 35	26.2
3 x 1.5	10.2	3 x 35	27.7
4 x 1.5	11.1	4 x 35	30.4
5 x 1.5	12.3	5 x 35	33.5
2 x 2.5	11.0	2 x 50	30.6
3 x 2.5	11.5	3 x 50	32.0
4 x 2.5	13.2	4 x 50	35.1
5 x 2.5	14.0	5 x 50	40.0
2 x 4	12.4	2 x 70	35.2
3 x 4	13.0	3 x 70	34.7
4 x 4	14.4	2 x 95	37.6
5 x 4	16.0		
2 x 6	15.2	1 x 6	9.1
3 x 6	15.8	1 x 10	11.7
4 x 6	17.1	1 x 16	12.9
5 x 6	19.8	1 x 25	14.2
2 x 10	18.6	1 x 35	15.8
3 x 10	19.4	1 x 50	17.4
4 x 10	21.1	1 x 70	19.0
5 x 10	23.4	1 x 95	21.3
2 x 16	20.4	1 x 120	23.3
3 x 16	21.5	1 x 150	25.2
4 x 16	23.9	1 x 185	27.7
5 x 16	26.1	1 x 240	31.3
2 x 25	23.4	1 x 300	34.4
3 x 25	24.9		
4 x 25	27.5		
5 x 25	30.4		

Multi-conductor cables with an earth wire are identified by the symbol G in the place of the "x" (ex: 3G 1.5 mm²).

* Nominal values.

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PYRISOL® 500 BEL

1 • 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.
2 • EI2 fire-resistant elastomer insulation.
Vuurbestendige elastomeer isolatie (EI2).
3 • Outer sheath in halogen-free flame-retardant polyolefine.
Halogeenvrije, brandwerende polyolefine buitenmantel.

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 50267-2-3).
> 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 50267-2-3).
> FR1: Vuurbestendig (NBN EN 50200 / NBN EN 50362).
> FR2: Vuurbestendig (NBN 713-020/A3);
• Gamma goedgekeurd door het Instituut voor Brandveiligheid (ISIB).

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 produkties

• 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.

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

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	5 x 1.5	Rf 90	9.3
1 x 25	Rf 120	10.5	3 x 2.5	Rf 90	8.7	5 x 2.5	Rf 90	11.0
1 x 35	Rf 120	11.9	3 x 4	Rf 90	10.4	5 x 4	Rf 90	13.0
1 x 50	Rf 120	13.9	3 x 6	Rf 90	12.8	5 x 6	Rf 90	15.7
1 x 70	Rf 120	15.3	3 x 10	Rf 90	16.2	5 x 10	Rf 90	20.0
1 x 95	Rf 120	17.6	3 x 16	Rf 90	18.3	5 x 16	Rf 90	22.7
1 x 120	Rf 120	19.2	3 x 25	Rf 90	21.5	5 x 25	Rf 90	26.6
1 x 150	Rf 120	21.3	3 x 35	Rf 90	24.1	5 x 35	Rf 90	29.9
1 x 185	Rf 120	23.9	3 x 50	Rf 90	28.2	5 x 50	Rf 90	35.0
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	7 x 1.5	Rf 90	10.8
2 x 2.5	Rf 90	8.2	4 x 2.5	Rf 90	9.7	7 x 2.5	Rf 60	12.6
2 x 4	Rf 90	9.8	4 x 4	Rf 90	11.6	7 x 4	Rf 60	14.6
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			

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 sleevings, wireway or cowl. PYRISOL 500 BEL cables are not designed to be buried or for permanent or temporary immersion.

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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PYRITEL® 100 BEL

1 • Solid bare copper core Ø 0.9 mm.
Massieve kern in blank koper Ø 0.9 mm.
2 • EI2 fire-resistant elastomer insulation.
Vuurbestendige elastomeer isolatie (EI2).
3 • Electrical shielding: metallic tape + continuity wire.
Afscherming : metalen band + massadraad.
4 • Outer sheath in halogen-free flame-retardant polyolefine.
Halogeenvrije, brandwerende polyolefine buitenmantel.

Approvals - standards

• Compliant with standard NBN 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 50267-2-3).
> 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 50267-2-3).
> 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 – PYRITEL 100 BEL 100/170V <cross-section> NBN C 30-004 F1 F2 SD SA FR1 FR2

Markering

OMERIN – PYRITEL 100 BEL 100/170V <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 sleevings, wireway or cowl. PYRITEL 100 BEL cables are not designed to be buried or for permanent or temporary immersion.

Characteristics

• Rated voltage: 100/170 V.
• Maximum core temperature: +90 °C.
• Minimum bending radius: 10 x diameter.

Eigenschappen

• Toegekende spanning : 100/170 V.
• Maximale temperatuur van de kern : +90°C.
• Minimale buigingstraal : 10 x buitendiameter.

Standard products

• Outer sheath: orange.

Standaard produkties

• Buitenmantel : oranje.

Number of pairs *Aantal paren*	Nominal core diameter *Nominale diameter kern*		Nominal outside diameter *Nominale buitendiameter*
1	0.9	Rf 90	6.0
2 (1)	0.9	Rf 90	7.3
3	0.9	Rf 90	10.0
5	0.9	Rf 90	12.4

Colour of conductors
Kleuren van de geleiders

Number of pairs *Aantal paren*	Conductor 1 *Geleider 1*	Conductor 2 *Geleider 2*
1	White *Wit*	Blue *Blauw*
2 to/*tot* 5	White + no. *Wit + nr*	Blue + no. *Blauw + nr*

(1) Assembled as a quad
Samengeslagen als een kwart

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LES CABLES DE L'EXTREME

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SILIFLAM® 500 TX-K
CR1-C1

1 • Flexible bare copper core, class 5 as per IEC 60228.
2 • EI2 fire-resistant elastomer insulation.
3 • Outer sheath in fire-resistant elastomer.

Approvals - standards

- Fire-resistant as per NF C 32-070 CR1 test (voltage 300/500 V).
- Fire-resistant as per IEC 60331-21 90 minutes (voltage 600/1000 V).
- Fire retardant as per NF C 32-070 test C1, IEC 60332-3-22 and IEC 60332-3-24.
- Flame retardant as per NF C 32-070 test C2 and IEC 60332-1-2.
- Halogen free as per IEC 60754-1.
- No smoke corrosiveness as per IEC 60754-2.
- Low smoke opacity as per IEC 61034-2.
- Accepted to the NF-USE certification mark as per standards NF C 32-070 and NF C 32-310.

Applications

- Fire safety circuits in public-access or high-rise buildings.

Options

- Electrical shielding: tin-plated copper braid: reference SILIFLAM 500 TX-K BE.
- Solid or stranded bare copper core: reference PYRISOL 500 EN.

SILIFLAM 500 TX-K cables in compliance with the regulations and the installation standard in force (NFC 15-100). 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 sleevings, wireway or cowl. SILIFLAM 500 TX-K cables are not designed to be buried or for permanent or temporary immersion.

Characteristics

General

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

Standard products

- Outer sheath: brick red.

Conducting core/sheath*			Conducting core/sheath*		
Cross-sections (mm²)	Stranding	Outside diameter (mm)	Cross-sections (mm²)	Stranding	Outside diameter (mm)
2 x 1.5	30 x 0.25	9.6	1 x 16	126 x 0.40	8.6
3 x 1.5	30 x 0.25	10.2	2 x 16	126 x 0.40	20.2
4 x 1.5	30 x 0.25	11.1	3 x 16	126 x 0.40	21.5
5 x 1.5	30 x 0.25	12.3	4 x 16	126 x 0.40	23.7
2 x 2.5	50 x 0.25	10.8	5 x 16	126 x 0.40	26.3
3 x 2.5	50 x 0.25	11.5	1 x 25	196 x 0.40	13.5
4 x 2.5	50 x 0.25	12.8	2 x 25	196 x 0.40	24.0
5 x 2.5	50 x 0.25	13.6	3 x 25	196 x 0.40	25.6
2 x 4	56 x 0.30	12.6	4 x 25	196 x 0.40	28.3
3 x 4	56 x 0.30	13.4	5 x 25	196 x 0.40	31.5
4 x 4	56 x 0.30	14.5	1 x 35	276 x 0.40	11.6
5 x 4	56 x 0.30	16.0	1 x 50	396 x 0.40	13.4
1 x 6	84 x 0.30	5.7	1 x 70	360 x 0.50	15.9
2 x 6	84 x 0.30	14.0	1 x 95	485 x 0.50	17.9
3 x 6	84 x 0.30	14.9	1 x 120	608 x 0.50	19.8
4 x 6	84 x 0.30	16.3	1 x 150	756 x 0.50	22.9
5 x 6	84 x 0.30	18.0	1 x 185	944 x 0.50	25.0
1 x 10	80 x 0.40	7.3	1 x 240	1221 x 0.50	27.5
2 x 10	80 x 0.40	17.4			
3 x 10	80 x 0.40	18.5			
4 x 10	80 x 0.40	20.4			
5 x 10	80 x 0.40	22.6			

* Nominal values.

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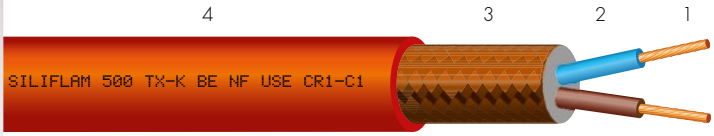
SILIFLAM® 500 TX-K BE
CR1-C1



1 • Flexible bare copper core, class 5 as per IEC 60228.
2 • EI2 fire-resistant elastomer insulation.
3 • Electrical shielding: copper braid.
4 • Outer sheath in fire-resistant elastomer.

Approvals - standards

- Fire-resistant as per NF C 32-070 CR1 test (voltage 300/500 V).
- Fire-resistant as per IEC 60331-21 90 minutes (voltage 600/1,000 V).
- Fire retardant as per NF C 32-070 test C1, IEC 60332-3-22 and IEC 60332-3-24.
- Flame retardant as per NF C 32-070 test C2 and IEC 60332-1-2.
- Halogen free as per IEC 60754-1.
- No smoke corrosiveness as per IEC 60754-2.
- Low smoke opacity as per IEC 61034-2.
- Accepted to the NF-USE certification mark as per standards NF C 32-070 and NF C 32-310.

Applications

- Fire safety circuits in public-access or high-rise buildings.

Options

- No electrical shielding: ref. SILIFLAM 500 TX-K BE.
- Solid or stranded bare copper core: reference PYRISOL 500 EN.

SILIFLAM 500 TX-K BE cables will be installed in compliance with the regulations and the installation standard in force (NFC 15-100). 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 sleevings, wireway or cowl. SILIFLAM 500 TX-K BE cables are not designed to be buried or for permanent or temporary immersion.

Characteristics

General

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

Standard products

- Outer sheath: brick red.

	Conductor*		Sheath*	
Cross-section (mm^2)	Stranding	Radial thickness	Radial thickness	Outside diameter
2 x 1.5	30 x 0.25	1.0	1.0	11.0
2 x 2.5	50 x 0.25	1.1	1.1	12.5
2 x 4.0	56 x 0.30	1.2	1.2	14.70

* Nominal values.

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SILIFLAM®
500 TEL-EI/EG
CR1-C1

1 • Solid bare copper core Ø 0.9 mm.
2 • EI2 fire-resistant elastomer insulation.
3 • Electrical shielding: metallic tape + continuity wire.
4 • Electrical shielding: metallic tape + continuity wire.
5 • Outer sheath in fire-resistant elastomer.

Approvals - standards

- Fire-resistant as per NF C 32-070 CR1 test.
- Fire-resistant as per IEC 60331-21, 90 minutes.
- Fire retardant as per NF C 32-070 test C1, IEC 60332-3-22 and IEC 60332-3-24.
- Flame retardant as per NF C 32-070 test C2 and IEC 60332-1-2.
- Halogen free as per IEC 60754-1.
- No smoke corrosiveness as per IEC 60754-2.
- Low smoke opacity as per IEC 61034-2.
- Admitted to the NF-USE certification mark as per standards NF C 32-070 and NF C 32-310.

Applications

- Fire safety circuits in public-access or high-rise buildings.

Options

- General shielding only: reference PYRITEL 100 EN.

Other stranding: contact us.

SILIFLAM 500 TEL-EI/EG cables will be installed in compliance with the regulations and the installation standard in force (NFC 15-100). 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 sleevings, wireway or cowl.
SILIFLAM 500 TEL-EI/EG cables are not designed to be buried or for permanent or temporary immersion.

Characteristics

General

- Rated voltage: 100/170 V.
- Maximum core temperature: +90 °C.
- Minimum bending radius: 10 x diameter.

Standard products

- Outer sheath: brick red.

Conductor*			Sheath*		
Number of pairs	Cross-sections	Radial thickness (mm)	Radial thickness (mm)	Outside diameter (mm) Min.	Max.
2	0.636	0.7	1.0	9.7	11.60
3	0.636	0.7	1.2	10.8	12.80
5	0.636	0.7	1.4	13.3	15.60
7	0.636	0.7	1.6	14.9	17.40
10	0.636	0.7	1.8	19.2	22.10
15	0.636	0.7	2.0	22.6	25.80
21	0.636	0.7	2.2	25.4	29.00
30	0.636	0.7	2.4	30.4	34.50

* Nominal values.

Colour of conductors

Conductor 1*	Conductor 2*
Light blue	White + no.

* of each pair.

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