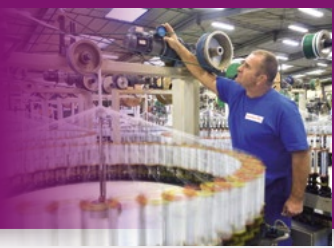




5

CABLE SOLUTIONS FOR ROLLING STOCK

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LES CABLES DE L'EXTREME

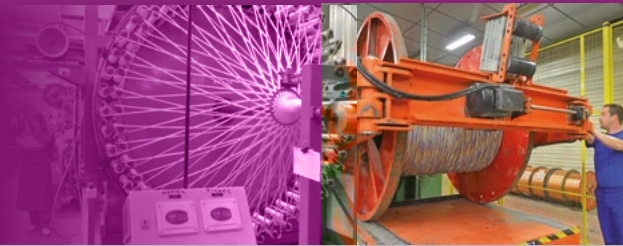


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HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS 2

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION III: COMPOSITE INSULATIONS 3

FIRE RESISTANT SAFETY CABLES 4

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CABLES FOR POWER STATIONS AND HIGH-RISK SITES 6

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BRAIDED INSULATING SLEEVINGS 9

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CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY 11

PACKAGING AND TECHNICAL DATA

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

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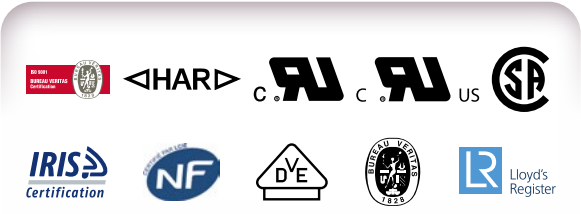
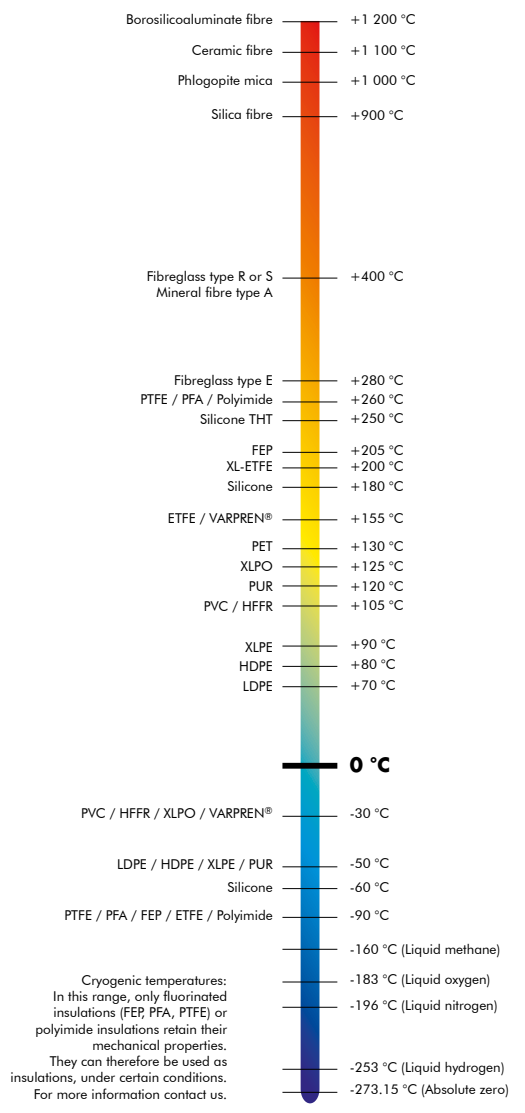
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BIO-HABITAT®	Wires and cables for a home without electromagnetic interference
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FLEXBAT®	Extra flexible battery cables
LUMIPLAST®	Wires and cables for lighting systems
METALTRESSE®	High performance 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
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PYRISOL®	Fire resistant power cables for safety circuits
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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®	Analogue and digital video cables



Thermal classification of insulations



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CABLE SOLUTIONS
FOR ROLLING STOCK

LOW VOLTAGE CABLES

EN 50306

FT No.	OMERIN reference	Single or multicore type	Core insulation type	Core insulation thickness Thin	Screened by a tin-plated copper braid	Outer sheath type	Operating temperature (°C)	Operating voltage (V)	IRM902 Mineral Oil Resistant	IRM 903 Fuel Resistant	Halogen-free Low Smoke	Application
5101	VARPREN RW EN 50306-2 300V M		LSZH special compound	✓			105	300	✓	✓	✓	Control and command cables with special fire performance used as either fixed wiring or wiring with limited flexing operation.
5102	VARPREN RW EN 50306-3 300V MM S	Multicore	LSZH special compound	✓	✓	S2	105	300	✓	✓	✓	Fire performance used as either fixed wiring or wiring with limited flexing operation, where electrical protection is needed for disturbance.
5103	VARPREN RW EN 50306-4 300V MM 1E or 1P	Multicore	LSZH special compound	✓		S2 ou EM 104	90	300	✓	✓	✓	Control and command cables with special fire performance used in PROTECTED situations (class P: minimum thickness of sheath 0.42 mm) or EXPOSED situations (class E: minimum thickness of sheath 1 mm) as either fixed wiring or wiring with limited flexing operation.
5104	VARPREN RW EN 50306-4 300V MM S 3E or 3P	Multicore	LSZH special compound	✓	✓	S2 ou EM 104	90	300	✓	✓	✓	Control and command cables with special fire performance used in PROTECTED situations (class P: minimum thickness of sheath 0.42 mm) or EXPOSED situations (class E: minimum thickness of sheath 1 mm) as either fixed wiring or wiring with limited flexing operation.
5105	VARPREN RW EN 50306-4 300V MMM S 5E or 5P	Multicore	LSZH special compound	✓	✓	Thin internal wall sheath type S2/ standard wall external sheath type EM 104	90	300	✓	✓	✓	Control and command cables with special fire performance used in PROTECTED situations (class P: minimum thickness of sheath 0.42 mm) or EXPOSED situations (class E: minimum thickness of sheath 1 mm) as either fixed wiring or wiring with limited flexing operation.
5106	VARPREN RW EN 50306-4 300V MM S 7E or 7P	Multipair	LSZH special compound	✓	✓	EM 104	90	300	✓	✓	✓	Control and command cables with special fire performance used in PROTECTED situations (class P: minimum thickness of sheath 0.56 mm) or EXPOSED situations (class E: minimum thickness of sheath 1 mm) as either fixed wiring or wiring with limited flexing operation.

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LES CABLES DE L'EXTREME

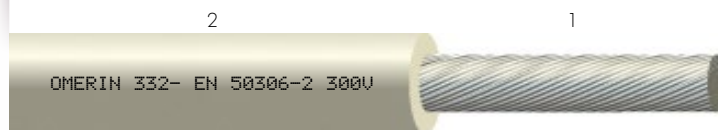
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VARPREN® RW

EN 50306-2 300V M

Unsheathed cable



- 1 • Tin-plated copper core.
- 2 • Thin wall insulation.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +105 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Other cross-sections on request

Standards and approvals

- EN 60228, EN 50306-1, EN 50306-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50306-2 300V 1 x < cross-section > M - batch number - week/year

Item Code	Nominal cross-section (mm ²)	Nominal stranding	Minimum wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
383A0101	0.5	19 x 0.18	0.18	1.15	1.45	40.1	6.0
383A0201	0.75	19 x 0.22	0.18	1.35	1.65	26.7	8.5
383A0301	1	19 x 0.26	0.18	1.40	1.80	20.0	10.5
383A0401	1.5	19 x 0.30	0.22	1.90	2.30	13.7	16.5
383A0501	2.5	19 x 0.40	0.28	2.45	2.85	8.21	26.0

For this product, please contact :

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silisol@omerin.com

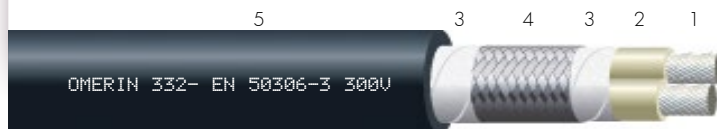
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For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.
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VARPREN® RW

EN 50306-3 300V MM S

Screened and sheathed cable



- 1 • Tin-plated copper core.
- 2 • Thin wall insulation.
- 3 • Separating tape (optional).
- 4 • Tin-plated copper braid.
- 5 • Thin wall sheath type S2.

Characteristics

Thermal
Continuous operating temperature:
-40 °C to +105 °C.

Electrical
Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical
Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius: 5xD

Chemical
Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke
Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Other cross-sections or constructions on request.

For this product, please contact :

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Standards and approvals

- EN 60228, EN 50306-1, EN 50306-2, EN 50306-3.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50306-3 300V number of cores x < cross-section >
MM S 90 - batch number - week/year

BASE CORE

Nominal cross-section (mm²)	Nominal stranding	Minimum wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
			Mini	Maxi		
0.5	19 x 0.18	0.18	1.15	1.45	40.1	6.0
0.75	19 x 0.22	0.18	1.35	1.65	26.7	8.5
1	19 x 0.26	0.18	1.40	1.80	20.0	10.5
1.5	19 x 0.30	0.22	1.90	2.30	13.7	16.5
2.5	19 x 0.40	0.28	2.45	2.85	8.21	26.0

REFERENCE EN 50306-3 300V MM S

Item code	Nominal cross-section (mm²)	Minimum sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
			Mini	Maxi	
383B0102	1 x 0.5	0.2	2.3	2.9	15
383B0202	2 x 0.5	0.2	3.5	4.4	29
383B0302	3 x 0.5	0.2	3.7	4.7	36
383B0402	4 x 0.5	0.2	4	5.2	44
383B0502	6 x 0.5	0.2	5.5	6.5	61
383B2202	8 x 0.5	0.2	6.1	7.1	75
383B0602	1 x 0.75	0.2	2.5	3.1	19
383B0702	2 x 0.75	0.2	3.9	4.8	37
383B0802	3 x 0.75	0.2	4	5.2	47
383B0902	4 x 0.75	0.2	4.5	5.7	57
383B2302	6 x 0.75	0.2	6.1	7.1	79
383B2402	8 x 0.75	0.2	7.3	8.3	100
383B1002	1 x 1	0.2	2.7	3.3	22
383B1102	2 x 1	0.2	4.2	5.3	42
383B1202	3 x 1	0.2	4.5	5.7	54
383B1302	4 x 1	0.2	5	6.2	72
383B2502	6 x 1	0.2	6.3	7.3	95
383B2702	8 x 1	0.2	7.5	8.5	119
383B1402	1 x 1.5	0.2	3.1	3.7	30
383B1502	2 x 1.5	0.2	5.1	6.2	64
383B1602	3 x 1.5	0.2	5.4	6.6	82
383B1702	4 x 1.5	0.2	6	7.2	102
383B2802	6 x 1.5	0.2	7.3	8.3	141
383B2902	8 x 1.5	0.2	8.5	9.5	179
383B1802	1 x 2.5	0.2	3.6	4.5	44
383B1902	2 x 2.5	0.2	6.4	7.5	91
383B2002	3 x 2.5	0.2	6.8	8	121
383B2102	4 x 2.5	0.2	7.5	8.7	151

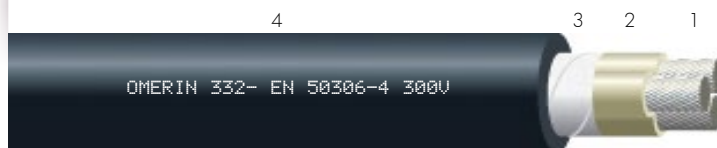
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VARPREN® RW

EN 50306-4 300V MM



- 1 • Tin-plated copper core.
- 2 • Thin wall insulation.
- 3 • Separating tape (optional).
- 4 • Standard wall sheath type EM 104.

Characteristics

Thermal
Continuous operating temperature:
-40°C at +90°C.

Electrical
Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical
Cutthrough resistance: ★★★★★
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical
Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke
Halogenfree (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2,
EN 60332-3-24).
Firesmoke protection (EN 45545-2, NFPA 130).

Options
Other cross-sections or constructions
on request.

Marking
OMERIN 332 EN 50306-4 1E or 1P
300V number of cores x < cross-section >
MM 90 - batch number - week/year

For this product, please contact :

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Standards and approvals

- EN 60228, EN 50306-1, EN 50306-2, EN 50306-4.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

BASE CORE

Nominal cross-section (mm²)	Nominal stranding	Minimum wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
			Mini	Maxi		
0.5	19 x 0.18	0.18	1.15	1.45	40.1	6.0
0.75	19 x 0.22	0.18	1.35	1.65	26.7	8.5
1	19 x 0.26	0.18	1.40	1.80	20.0	10.5
1.5	19 x 0.30	0.22	1.90	2.30	13.7	16.5
2.5	19 x 0.40	0.28	2.45	2.85	8.21	26.0

REFERENCE EN 50306-4 300V MM

Nominal cross-section (mm²)	Item code	Minimum sheath thickness (mm)	Class cable E			Class cable P			Approx. linear weight (kg/km)	
			Cable outer diameter (mm)		Approx. linear weight (kg/km)	Item code	Cable outer diameter (mm)			
			Mini	Maxi			Mini	Maxi		
2 x 0.5	383C0102	1.0	4.9	5.9	34	383C3502	0.42	3.5	4.5	23
3 x 0.5	383C0202	1.0	5.1	6.1	41	383C3602	0.42	3.8	4.8	29
4 x 0.5	383C0302	1.0	5.5	6.5	48	383C3702	0.42	4.1	5.1	35
7 x 0.5	383C0402	1.0	6.3	7.3	71	383C3802	0.42	4.9	5.9	55
13 x 0.5	383C0502	1.0	8.3	9.3	117	383C3902	0.42	7.3	8.3	96
19 x 0.5	383C0602	1.0	9.0	10.2	158	383C4002	0.42	8.1	9.1	135
37 x 0.5	383C0702	1.0	12.3	13.5	281	383C4102	0.42	10.8	12.0	250
2 x 0.75	383C0802	1.0	5.3	6.3	41	383C4202	0.42	4.0	5.0	29
3 x 0.75	383C0902	1.0	5.5	6.5	50	383C4302	0.42	4.2	5.2	37
4 x 0.75	383C1002	1.0	6.0	7.0	59	383C4402	0.42	4.6	5.6	44
7 x 0.75	383C1102	1.0	6.9	7.9	89	383C4502	0.42	5.5	6.5	72
13 x 0.75	383C1202	1.0	9.1	10.3	151	383C4602	0.42	8.2	9.2	127
19 x 0.75	383C1302	1.0	10.0	11.2	206	383C4702	0.42	9.0	10.2	180
37 x 0.75	383C1402	1.0	13.2	14.4	373	383C4802	0.42	12.2	13.4	338
48 x 0.75	383C1502	1.0	14.8	16.4	474	383C4902	0.42	13.9	15.5	435
2 x 1	383C1602	1.0	5.6	6.6	48	383C5002	0.42	4.3	5.3	35
3 x 1	383C1702	1.0	5.9	6.9	60	383C5102	0.42	4.6	5.6	47
4 x 1	383C1802	1.0	6.3	7.3	69	383C5202	0.42	4.9	5.9	53
7 x 1	383C1902	1.0	7.3	8.3	106	383C5302	0.42	6.0	7.0	87
13 x 1	383C2002	1.0	9.7	10.9	181	383C5402	0.42	8.7	9.9	156
19 x 1	383C2102	1.0	10.7	11.9	250	383C5502	0.42	9.8	11.0	222
37 x 1	383C2202	1.0	14.0	15.6	456	383C5602	0.42	13.3	14.5	420
2 x 1.5	383C2302	1.0	6.3	7.3	60	383C5702	0.42	5.0	6.0	46
3 x 1.5	383C2402	1.0	6.6	7.6	76	383C5802	0.42	5.3	6.3	62
4 x 1.5	383C2502	1.0	7.4	8.4	99	383C5902	0.42	6.0	7.0	80
7 x 1.5	383C2602	1.0	8.6	9.8	154	383C6002	0.42	7.7	8.7	132
13 x 1.5	383C2702	1.0	11.7	12.9	268	383C6102	0.42	10.7	11.9	237
19 x 1.5	383C2802	1.0	13.0	14.2	373	383C6202	0.56	12.0	13.2	339
37 x 1.5	383C2902	1.0	17.2	18.8	690	383C6302	0.56	16.2	17.8	644
2 x 2.5	383C3002	1.0	7.7	8.7	86	383C6402	0.56	6.7	7.7	123
3 x 2.5	383C3102	1.0	8.1	9.1	115	383C6502	0.56	7.7	8.1	206
4 x 2.5	383C3202	1.0	8.8	10.0	145	383C6602	0.56	7.9	8.9	373

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VARPREN® RW

EN 50306-4 300V MM S

Screened and sheathed multicore cables



- 1 • Tin-plated copper core.
- 2 • Thin wall insulation.
- 3 • Separating tape (optional).
- 4 • Tin-plated copper braid.
- 5 • Standard wall sheath type EM 104.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius: 5xD

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2,
EN 60332-3-24).
Firesmoke protection (EN 45545-2).

Options

Other cross-sections
or constructions on request.

Standards and approvals

- EN 60228, EN 50306-1, EN 50306-2, EN 50306-4.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50306-4 3E or 3P 300V number of cores x < cross-section >
MM S 90 - batch number - week/year

BASE CORE

Nominal cross-section (mm ²)	Nominal stranding	Minimum wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
			Mini	Maxi		
0.5	19 x 0.18	0.18	1.15	1.45	40.1	6.0
0.75	19 x 0.22	0.18	1.35	1.65	26.7	8.5
1	19 x 0.26	0.18	1.40	1.80	20.0	10.5
1.5	19 x 0.30	0.22	1.90	2.30	13.7	16.5
2.5	19 x 0.40	0.28	2.45	2.85	8.21	26.0

REFERENCE EN 50306-4 300V MMS

Nominal cross-section (mm ²)	Class cable E					Class cable P				
	Item code	Minimum sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)	Item code	Minimum sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
			Mini	Maxi				Mini	Maxi	
2 x 0.5	383D0102	1.0	5.5	6.5	46	383D2402	0.42	4.1	5.1	34
3 x 0.5	383D0202	1.0	5.7	6.7	54	383D2502	0.42	4.3	5.3	41
4 x 0.5	383D0302	1.0	6.1	7.1	64	383D2602	0.42	4.7	5.7	50
6 x 0.5	383D0402	1.0	6.9	7.9	88	383D2702	0.42	5.5	6.5	72
8 x 0.5	383D0502	1.0	7.5	8.5	107	383D2802	0.42	6.0	7.0	89
2 x 0.75	383D0602	1.0	5.9	6.9	54	383D2902	0.42	4.5	5.5	40
3 x 0.75	383D0702	1.0	6.2	7.2	64	383D3002	0.42	4.7	5.7	50
4 x 0.75	383D0802	1.0	6.5	7.5	76	383D3102	0.42	5.2	6.2	66
6 x 0.75	383D0902	1.0	7.5	8.5	107	383D3202	0.42	6.1	7.1	89
8 x 0.75	383D1002	1.0	8.2	9.2	131	383D3302	0.42	6.6	7.6	112
2 x 1	383D1102	1.0	6.2	7.2	60	383D3402	0.42	4.7	5.7	46
3 x 1	383D1202	1.0	6.5	7.5	73	383D3502	0.42	5.1	6.0	58
4 x 1	383D1302	1.0	6.9	7.9	92	383D3602	0.42	5.5	6.5	76
6 x 1	383D1402	1.0	8.0	9.0	123	383D3702	0.42	6.6	7.6	105
8 x 1	383D1502	1.0	8.6	9.8	152	383D3802	0.42	7.7	8.7	131
2 x 1.5	383D1602	1.0	7.1	8.1	87	383D3902	0.42	5.7	6.7	69
3 x 1.5	383D1702	1.0	7.4	8.4	107	383D4002	0.42	6.0	7.0	88
4 x 1.5	383D1802	1.0	8.0	9.0	129	383D4102	0.42	6.6	7.6	108
6 x 1.5	383D1902	1.0	9.2	10.4	175	383D4202	0.56	8.3	9.3	156
8 x 1.5	383D2002	1.0	10.2	11.4	218	383D4302	0.56	8.9	10.1	197
2 x 2.5	383D2102	1.0	8.3	9.3	117	383D4402	0.56	7.3	8.3	101
3 x 2.5	383D2202	1.0	8.6	9.8	148	383D4502	0.56	7.7	8.7	131
4 x 2.5	383D2302	1.0	9.4	10.6	181	383D4602	0.56	8.4	9.6	163

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VARPREN® RW

EN 50306-4 300V MMM S

Individually screened
and sheathed multicore cables



- 1 • Tin-plated copper core.
- 2 • Thin wall insulation.
- 3 • Separating tape (optional).
- 4 • Tin-plated copper braid.
- 5 • Thin internal wall sheath type S2.
- 6 • Standard external wall sheath type EM 104.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius:
5xD

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2,
EN 60332-3-24).
Firesmoke protection (EN 45545-2).

Options

Other cross-sections
or constructions on request.

Standards and approvals

- EN 60228, EN 50306-1, EN 50306-2, EN 50306-4.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50306-4 5E or 5P 300V number of pairs x < cross-section >
MMM S 90 - batch number - week/year

BASE CORE

Nominal cross-section (mm²)	Nominal stranding	Minimum wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
			Mini	Maxi		
0.5	19 x 0.18	0.18	1.15	1.45	40.1	6.0
0.75	19 x 0.22	0.18	1.35	1.65	26.7	8.5
1	19 x 0.26	0.18	1.40	1.80	20.0	10.5
1.5	19 x 0.30	0.22	1.90	2.30	13.7	16.5
2.5	19 x 0.40	0.28	2.45	2.85	8.21	26.0

REFERENCE EN 50306-4 300V MMM S

Nominal cross-section (mm²)	Class cable E					Class cable P				
	Item code	Minimum sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)	Item code	Minimum sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
			Mini	Maxi				Mini	Maxi	
2 x 2 x 0.5	383E0102	1.0	10.1	11.3	135	383E1702	0.56	9.0	10.2	105
3 x 2 x 0.5	383E0202	1.0	10.8	12.0	165	383E1802	0.56	9.6	10.8	132
4 x 2 x 0.5	383E0302	1.0	11.8	13.0	188	383E1902	0.56	10.7	11.9	154
7 x 2 x 0.5	383E0402	1.0	13.9	15.5	280	383E2002	0.56	13.0	14.2	242
2 x 2 x 0.75	383E0502	1.0	10.9	12.1	158	383E2102	0.56	9.8	11.0	128
3 x 2 x 0.75	383E0602	1.0	11.6	12.8	195	383E2202	0.56	10.5	11.7	164
4 x 2 x 0.75	383E0702	1.0	12.8	14.0	225	383E2302	0.56	11.6	12.8	186
7 x 2 x 0.75	383E0802	1.0	15.1	16.7	335	383E2402	0.56	14.0	15.6	297
2 x 2 x 1.0	383E0902	1.0	11.3	12.5	170	383E2502	0.56	10.2	11.6	138
3 x 2 x 1.0	383E1002	1.0	12.0	13.2	210	383E2602	0.56	10.9	12.1	179
4 x 2 x 1.0	383E1102	1.0	13.2	14.4	234	383E2702	0.56	12.1	13.3	205
7 x 2 x 1.0	383E1202	1.0	15.7	17.3	365	383E2802	0.56	14.6	16.2	348
2 x 2 x 1.5	383E1302	1.0	13.3	14.5	240	383E2902	0.56	12.2	13.4	203
3 x 2 x 1.5	383E1402	1.0	14.0	15.6	294	383E3002	0.56	13.1	14.3	263
4 x 2 x 1.5	383E1502	1.0	15.5	17.1	340	383E3102	0.56	14.3	15.9	297
7 x 2 x 1.5	383E1602	1.0	18.7	20.3	539	383E3202	0.56	17.6	19.2	501

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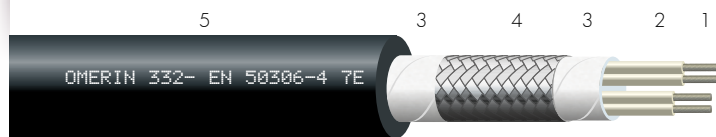
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VARPREN® RW

EN 50306-4 300V MM S

Multipair cables

general screened and sheathed



- 1 • Tin-plated copper core.
- 2 • Thin wall insulation.
- 3 • Separating tape (optional).
- 4 • Tin-plated copper braid.
- 5 • Standard external wall sheath type EM 104.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
5xD

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2,
EN 60332-3-24).
Fire-smoke protection (EN 45545-2).

Options

Other cross-sections
or constructions on request.

Standards and approvals

- EN 60228, EN 50306-1, EN 50306-2, EN 50306-4.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50306-4 7E or 7P 300V number of pairs x < cross-section >
MM S 90 - batch number - week/year

BASE CORE

Nominal cross-section (mm ²)	Nominal stranding	Minimum wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
			Mini	Maxi		
0.5	19 x 0.18	0.18	1.15	1.45	40.1	6.0
0.75	19 x 0.22	0.18	1.35	1.65	26.7	8.5
1	19 x 0.26	0.18	1.40	1.80	20.0	10.5
1.5	19 x 0.30	0.22	1.90	2.30	13.7	16.5
2.5	19 x 0.40	0.28	2.45	2.85	8.21	26.0

REFERENCE EN 50306-4 300V MM S

Nominal cross-section (mm ²)	Class cable E					Class cable P				
	Item code	Minimum sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)	Item code	Minimum sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
			Mini	Maxi				Mini	Maxi	
2 x 2 x 0.5	383F0102	1.0	7.1	8.9	78	383F1702	0.56	6.6	7.9	70
3 x 2 x 0.5	383F0202	1.0	7.5	9.1	90	383F1802	0.56	7.0	8.1	79
4 x 2 x 0.5	383F0302	1.0	8.3	9.7	109	383F1902	0.56	7.7	8.7	99
7 x 2 x 0.5	383F0402	1.0	9.6	11.6	154	383F2002	0.56	9.0	10.6	143
2 x 2 x 0.75	383F0502	1.0	7.6	10.0	95	383F2102	0.56	7.1	9.0	86
3 x 2 x 0.75	383F0602	1.0	8.2	10.2	109	383F2202	0.56	7.7	9.2	102
4 x 2 x 0.75	383F0702	1.0	9.5	10.8	143	383F2302	0.56	9.0	10.0	132
7 x 2 x 0.75	383F0802	1.0	11.4	12.8	219	383F2402	0.56	10.8	11.8	203
2 x 2 x 1.0	383F0902	1.0	8.3	10.5	119	383F2502	0.56	7.8	9.5	107
3 x 2 x 1.0	383F1002	1.0	8.8	10.7	130	383F2602	0.56	8.3	9.7	122
4 x 2 x 1.0	383F1102	1.0	9.6	11.3	160	383F2702	0.56	9.1	10.3	150
7 x 2 x 1.0	383F1202	1.0	11.6	13.4	251	383F2802	0.56	11.0	12.4	238
2 x 2 x 1.5	383F1302	1.0	10.3	12.2	175	383F2902	0.56	9.8	11.2	162
3 x 2 x 1.5	383F1402	1.0	11.0	12.4	194	383F3002	0.56	10.4	11.4	178
4 x 2 x 1.5	383F1502	1.0	12.1	13.1	243	383F3102	0.56	11.6	12.6	229
7 x 2 x 1.5	383F1602	1.0	14.5	16.3	376	383F3202	0.56	14.0	15.3	359

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STANDARD POWER CABLES EN 50264-2-1/-2-2 / EN 50264-3-1/-3-2

FT No.	PRODUCT REFERENCE	PAGE
5200	STANDARD POWER CABLES – EN 50264-2-1/-2-2 / EN 50264-3-1/-3-2	14
5201	VARPREN® RW EN 50264-2-1 600V M	16
5202	VARPREN® RW EN 50264-2-1 1800V M	17
5203	VARPREN® RW EN 50264-2-1 1800V MM	18
5204	VARPREN® RW EN 50264-2-1 3600V MM	19
5205	VARPREN® RW EN 50264-2-2 300V MM	20
5206	VARPREN® RW EN 50264-2-2 600V MM	21
5207	VARPREN® RW EN 50264-2-2 300V MM S	22
5208	VARPREN® RW EN 50264-2-2 600V MM S	23
5209	VARPREN® RW EN 50264-2-1 600V MM S	24
5210	VARPREN® RW EN 50264-2-1 1800V MM S	25
5211	VARPREN® RW EN 50264-2-1 3600V MM S	26
5212	VARPREN® RW EN 50264-3-1 600V M	27
5213	VARPREN® RW EN 50264-3-1 1800V M	28
5214	VARPREN® RW EN 50264-3-1 1800V MM	29
5215	VARPREN® RW EN 50264-3-1 3600V MM	30
5216	VARPREN® RW EN 50264-3-2 300V MM	31
5217	VARPREN® RW EN 50264-3-2 600V MM	32
5218	VARPREN® RW EN 50264-3-2 300V MM S	33
5219	VARPREN® RW EN 50264-3-2 600V MM S	34

CABLE SOLUTIONS
FOR ROLLING STOCK

STANDARD POWER CABLES

EN 50264-2-1/-2-2 / EN 50264-3-1/-3-2

FT No.	OMERIN reference	Single or multicore type	Core insulation type	Core insulation thickness		Screened by a tin-plated copper braid	Outer sheath type	Operating temperature (°C)	Operating voltage (V)	IRM902 Mineral Oil Resistant	IRM 903 Fuel Resistant	Halogen-free Low Smoke	Application
				Medium	Standard								
5201	VARPREN RW EN 50264-2-1 600V M	Single core	EI 104		✓			90	600	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.
5202	VARPREN RW EN 50264-2-1 1800V M	Single core	EI 104		✓			90	1800	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.
5203	VARPREN RW EN 50264-2-1 1800V MM	Single core	EI 104		✓		EM 104	90	1800	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5204	VARPREN RW EN 50264-2-1 3600V MM	Single core	EI 104		✓		EM 104	90	3600	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5205	VARPREN RW EN 50264-2-2 300V MM	Single core	EI 104		✓		EM 104	90	300	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.
5206	VARPREN RW EN 50264-2-2 600V MM	Multicore	EI 104		✓		EM 104	90	600	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.
5207	VARPREN RW EN 50264-2-2 300V MM S	Multicore	EI 104		✓	✓	EM 104	90	300	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits, with tin-plated copper braid screen.
5208	VARPREN RW EN 50264-2-2 600V MM S	Multicore	EI 104		✓	✓	EM 104	90	600	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits, with tin-plated copper braid screen.
5209	VARPREN RW EN 50264-2-1 600V MM S	Single core	EI 104		✓	✓	EM 104	90	600	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits, with tin-plated copper braid screen.
5210	VARPREN RW EN 50264-2-1 1800V MM S	Single core	EI 104		✓	✓	EM 104	90	1800	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits, with tin-plated copper braid screen.
5211	VARPREN RW EN 50264-2-1 3600V MM S	Single core	EI 104	✓		✓	EM 104	90	3600	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits, with tin-plated copper braid screen.
5212	VARPREN RW EN 50264-3-1 600V M	Single core	EI 109	✓				90	600	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.
5213	VARPREN RW EN 50264-3-1 1800V M	Single core	EI 109	✓				90	1800	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.

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LES CABLES DE L'EXTREME

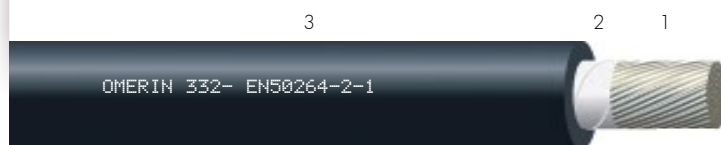
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FT No.	OMERIN reference	Single or multicore type	Core insulation type	Core insulation thickness		Screened by a tin-plated copper braid	Outer sheath type	Operating temperature (°C)	Operating voltage (V)	IRM902 Mineral Oil Resistant	IRM 903 Fuel Resistant	Halogen-free Low Smoke	Application
				Medium	Standard								
5214	VARPREN RW EN 50264-3-1 1800V MM	Single core	EI 109	✓			EM 104	90	1800	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5215	VARPREN RW EN 50264-3-1 3600V MM	Single core	EI 109	✓			EM 104	90	3600	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5216	VARPREN RW EN 50264-3-2 300V MM	Multicore	EI 109	✓			EM 104	90	300	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.
5217	VARPREN RW EN 50264-3-2 600V MM	Multicore	EI 109	✓			EM 104	90	600	✓	✓	✓	Power cables with special fire performance used inboards safety circuits, lighting circuits, auxiliary circuits.
5218	VARPREN RW EN 50264-3-2 300V MM S	Multicore	EI 109	✓		✓	EM 104	90	300	✓	✓	✓	Power cables with special fire performance and with an overall screen made by a tin-plated copper braid, used inboards safety circuits, lighting circuits, auxiliary circuits.
5219	VARPREN RW EN 50264-3-2 600V MM S	Multicore	EI 109	✓		✓	EM 104	90	600	✓	✓	✓	Power cables with special fire performance and with an overall screen made by a tin-plated copper braid, used inboards safety circuits, lighting circuits, auxiliary circuits.

VARPREN® RW

EN 50264-2-1 600V M

Unsheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2,
EN 60332-3-24).
Fire smoke protection (EN45545-2)
from 1mm² to 35mm².

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN50264-2-1 600V < cross-section > M - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
374A0102	1	32 x 0.20	0.8	2.8	3.2	20	17
374A0202	1.5	30 x 0.25	0.8	3.0	3.5	13.7	23
374A0302	2.5	50 x 0.25	0.8	3.4	3.9	8.21	34
374A0402	4	56 x 0.30	0.8	3.9	4.6	5.09	50
374A0502	6	84 x 0.30	0.9	4.6	5.4	3.39	73
374A0602	10	80 x 0.40	1.1	5.8	6.8	1.95	120
374A0702	16	126 x 0.40	1.1	7.2	8.5	1.24	181
374A0802	25	196 x 0.40	1.3	8.6	10.0	0.795	278
374A0902	35	276 x 0.40	1.3	10.2	11.5	0.565	375
374A1002	50	396 x 0.40	1.5	11.6	13.5	0.393	531
374A1102	70	360 x 0.50	1.5	13.3	15.5	0.277	722
374A1202	95	485 x 0.50	1.6	14.9	17.4	0.210	965
374A1302	120	608 x 0.50	1.6	16.5	19.3	0.164	1206
374A1402	150	756 x 0.50	1.9	18.5	21.7	0.132	1527
374A1502	185	944 x 0.50	1.9	20.1	23.6	0.108	1853
374A1602	240	1221 x 0.50	2.1	22.9	26.8	0.0817	2384
374A1702	300	1525 x 0.50	2.2	25.4	29.7	0.0654	2964

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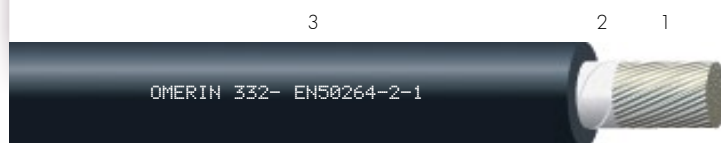
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VARPREN® RW

EN 50264-2-1 1800V M

Unsheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 1.8 kV / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-1 1800V < cross-section > M - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
374B0202	1.5	30 x 0.25	2.5	6.2	7.3	13.7	63
374B0302	2.5	50 x 0.25	2.5	6.6	7.8	8.21	76
374B0402	4	56 x 0.30	2.5	7.1	8.4	5.09	96
374B0502	6	84 x 0.30	2.5	7.6	8.9	3.39	121
374B0602	10	80 x 0.40	2.5	8.4	9.9	1.95	172
374B0702	16	126 x 0.40	2.5	9.5	11.1	1.24	240
374B0802	25	196 x 0.40	2.5	10.8	12.7	0.795	336
374B0902	35	276 x 0.40	2.5	12.0	14.1	0.565	441
374B1002	50	396 x 0.40	2.5	13.4	15.7	0.393	594
374B1102	70	360 x 0.50	2.5	15.1	17.7	0.277	792
374B1202	95	485 x 0.50	2.7	16.9	19.8	0.210	1052
374B1302	120	608 x 0.50	2.7	18.5	21.7	0.164	1306
374B1402	150	756 x 0.50	2.7	20.0	23.4	0.132	1609
374B1502	185	944 x 0.50	2.7	21.6	25.3	0.1080	1941
374B1602	240	1221 x 0.50	2.7	24.1	28.2	0.0817	2453

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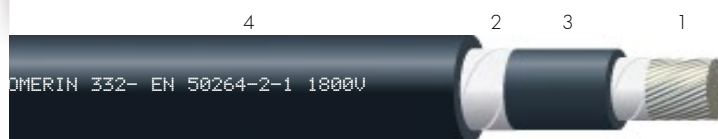
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VARPREN® RW

EN 50264-2-1 1800V MM

Sheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-1.
- 4 • Fire resistant elastomer - type EM 104 as per EN 50264-2-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 1.8 kV / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-1 1800V < cross-section > - MM - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
374C0202	1.5	30 x 0.25	1.3	1.4	6.7	7.8	13.7	62
374C0302	2.5	50 x 0.25	1.3	1.4	7.1	8.3	8.21	70
374C0402	4	56 x 0.30	1.3	1.4	7.6	8.9	5.09	84
374C0502	6	84 x 0.30	1.3	1.4	8.1	9.5	3.39	105
374C0602	10	80 x 0.40	2.2	1.4	10.6	12.4	1.95	130
374C0702	16	126 x 0.40	2.2	1.4	11.7	13.6	1.24	228
374C0802	25	196 x 0.40	2.2	1.4	13.0	15.2	0.795	302
374C0902	35	276 x 0.40	2.2	1.4	14.2	16.6	0.565	406
374C1002	50	396 x 0.40	2.2	1.4	15.6	18.3	0.393	517
374C1102	70	360 x 0.50	2.2	1.5	17.5	20.5	0.277	678
374C1202	95	485 x 0.50	2.4	1.6	19.6	22.3	0.210	912
374C1302	120	608 x 0.50	2.4	1.6	21.1	24.6	0.164	1176
374C1402	150	756 x 0.50	2.4	1.7	22.7	26.6	0.132	1444
374C1502	185	944 x 0.50	2.4	1.7	24.0	28.1	0.108	1777
374C1602	240	1221 x 0.50	2.4	1.8	27.0	31.6	0.0817	2119

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VARPREN® RW

EN 50264-2-1 3600V MM

Sheathed cable



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-1 3600V < cross-section > MM - batch number - week /year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
374D0102	2.5	50 x 0.25	3.0	1.4	10.5	12.3	8.21	156
374D0202	4	56 x 0.30	3.0	1.4	11.0	12.9	5.09	182
374D0302	6	84 x 0.30	3.0	1.4	11.5	13.4	3.39	211
374D0402	10	80 x 0.40	3.0	1.4	12.3	14.4	1.95	274
374D0502	16	126 x 0.40	3.0	1.4	13.3	15.6	1.24	353
374D0602	25	196 x 0.40	3.0	1.4	14.7	17.2	0.795	462
374D0702	35	296 x 0.40	3.0	1.4	15.9	18.6	0.565	578
374D0802	50	396 x 0.40	3.0	1.5	17.5	20.5	0.393	754
374D0902	70	360 x 0.50	3.0	1.5	19.2	22.4	0.277	968
374D1002	95	485 x 0.50	3.0	1.6	20.8	24.3	0.210	1238
374D1102	120	608 x 0.50	3.1	1.7	22.7	26.6	0.164	1536
374D1202	150	756 x 0.50	3.1	1.7	24.2	28.4	0.132	1867
374D1302	185	944 x 0.50	3.2	1.8	26.2	30.7	0.108	2243

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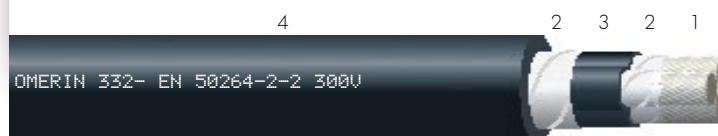
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VARPREN® RW

EN 50264-2-2 300V MM

Sheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-2.
- 4 • Fire resistant elastomer - type EM 104 as per EN 50264-2-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections or constructions on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-2 300V - number of cores x < cross-section > MM - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374E0102	2 x 1	0.6	2.6	1.4	7.2	8.5	76
374E0202	4 x 1	0.6	2.6	1.4	8.2	9.6	113
374E0302	7 x 1	0.6	2.6	1.4	9.6	11.2	169
374E0402	9 x 1	0.6	2.6	1.4	11.5	13.4	213
374E0502	12 x 1	0.6	2.6	1.4	12.3	14.4	264
374E0602	19 x 1	0.6	2.6	1.4	14.5	16.6	383
374E0702	24 x 1	0.6	2.6	1.5	16.7	19.6	484
374E0802	32 x 1	0.6	2.6	1.6	18.5	21.7	626
374E0902	37 x 1	0.6	2.6	1.6	19.2	22.4	706
374E1002	40 x 1	0.6	2.6	1.6	19.9	23.3	757
374E1102	4 x 1.5	0.7	3.1	1.4	9.2	10.8	143
374E1202	7 x 1.5	0.7	3.1	1.4	10.9	12.8	212
374E1302	9 x 1.5	0.7	3.1	1.4	13.1	15.3	285
374E1402	12 x 1.5	0.7	3.1	1.4	14.0	16.4	357
374E1502	19 x 1.5	0.7	3.1	1.5	16.5	19.4	534
374E1602	24 x 1.5	0.7	3.1	1.6	19.5	22.8	675
374E1702	32 x 1.5	0.7	3.1	1.7	21.5	25.2	875
374E1802	37 x 1.5	0.7	3.1	1.7	22.4	26.2	990
374E1902	4 x 2.5	0.8	3.6	1.4	10.7	12.5	198
374E2002	7 x 2.5	0.8	3.6	1.4	12.7	14.9	305
374E2102	9 x 2.5	0.8	3.6	1.5	15.6	18.3	414
374E2202	12 x 2.5	0.8	3.6	1.5	16.7	19.6	524
374E2302	19 x 2.5	0.8	3.6	1.6	19.7	23.1	790
374E2402	24 x 2.5	0.8	3.6	1.8	23.5	27.5	1009

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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-2-2 600V MM

Sheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-2.
- 4 • Fire resistant elastomer - type EM 104 as per EN 50264-2-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C .

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections or constructions on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-2 600V number of cores x < cross-section > MM - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374F0102	2 x 1.5	0.8	3.3	1.4	8.5	9.9	115
374F0202	3 x 1.5	0.8	3.3	1.4	8.9	10.5	173
374F0302	4 x 1.5	0.8	3.3	1.4	9.7	11.3	251
374F0402	2 x 2.5	0.8	3.6	1.4	9.3	10.9	133
374F0502	3 x 2.5	0.8	3.6	1.4	9.9	11.6	170
374F0602	4 x 2.5	0.8	3.6	1.4	10.7	12.5	210
374F0702	2 x 4	0.8	4.3	1.4	10.3	12.1	173
374F0802	3 x 4	0.8	4.3	1.4	11.0	12.9	228
374F0902	4 x 4	0.8	4.3	1.4	11.9	14.0	285
374F1002	2 x 6	0.9	5.0	1.4	11.8	13.9	229
374F1102	3 x 6	0.9	5.0	1.4	12.5	14.6	306
374F1202	4 x 6	0.9	5.0	1.4	13.7	16.1	387
374F1302	2 x 10	1.1	6.7	1.4	14.3	16.7	349
374F1402	3 x 10	1.1	6.7	1.5	15.3	17.9	484
374F1502	4 x 10	1.1	6.7	1.5	16.9	19.8	617
374F1602	2 x 16	1.1	7.9	1.5	16.5	19.4	496
374F1702	3 x 16	1.1	7.9	1.6	17.8	20.8	694
374F1802	4 x 16	1.1	7.9	1.6	19.6	22.9	889
374F1902	2 x 25	1.3	9.7	1.6	20.1	23.5	728
374F2002	3 x 25	1.3	9.7	1.7	21.6	25.3	1028
374F2102	4 x 25	1.3	9.7	1.8	24.1	28.2	1337
374F2202	2 x 35	1.3	11.0	1.7	22.7	26.6	956
374F2302	3 x 35	1.3	11.0	1.8	24.4	28.6	1357
374F2402	2 x 50	1.5	11.0	1.9	26.7	31.2	1331
374F2502	3 x 50	1.5	13.0	1.9	28.2	33.3	1879

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VARPREN® RW

EN 50264-2-2 300V MM S

Sheathed and screened cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-2.
- 4 • Tin-plated copper braid.
- 5 • Fire resistant elastomer - type EM 104 as per EN 50264-2-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C

Electrical

Operating voltage: 300 / 500 V
Test voltage: 2 kV A.C

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1)
Low toxicity (EN 60754-2)
Low smoke (EN 61034-2)
Flame retardant (EN 60332-1-2, EN 60332-3-24)

Options

Other cross-sections or constructions on request

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-2 300V number of cores x < cross-section > MM S - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374G0102	2 x 1	0.6	2.6	1.4	8.1	9.5	85
374G0202	4 x 1	0.6	2.6	1.4	9.0	10.6	123
374G0302	7 x 1	0.6	2.6	1.4	10.4	12.2	179
374G0402	9 x 1	0.6	2.6	1.4	12.5	14.6	224
374G0502	12 x 1	0.6	2.6	1.4	13.3	15.6	276
374G0602	19 x 1	0.6	2.6	1.5	15.7	18.4	406
374G0702	24 x 1	0.6	2.6	1.6	18.1	21.2	510
374G0802	32 x 1	0.6	2.6	1.6	19.7	23.1	644
374G0902	37 x 1	0.6	2.6	1.7	20.7	24.2	735
374G1002	40 x 1	0.6	2.6	1.7	21.4	25.1	787
374G1102	4 x 1.5	0.7	3.1	1.4	10.1	11.8	152
374G1202	7 x 1.5	0.7	3.1	1.4	11.9	14.0	222
374G1302	9 x 1.5	0.7	3.1	1.4	14.1	16.5	298
374G1402	12 x 1.5	0.7	3.1	1.4	15.8	18.5	372
374G1502	19 x 1.5	0.7	3.1	1.5	17.8	20.8	551
374G1602	24 x 1.5	0.7	3.1	1.6	20.7	24.2	693
374G1702	32 x 1.5	0.7	3.1	1.7	22.7	26.6	897
374G1802	37 x 1.5	0.7	3.1	1.7	23.6	27.6	1012
374G1902	4 x 2.5	0.8	3.6	1.4	11.8	13.9	209
374G2002	7 x 2.5	0.8	3.6	1.4	13.7	16.1	316
374G2102	9 x 2.5	0.8	3.6	1.5	16.8	19.7	430
374G2202	12 x 2.5	0.8	3.6	1.5	18.0	21.1	540
374G2302	19 x 2.5	0.8	3.6	1.6	21.1	24.6	808
374G2402	24 x 2.5	0.8	3.6	1.8	24.7	28.9	1031

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VARPREN® RW

EN 50264-2-2 600V MM S

Sheathed and screened cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-2.
- 4 • Tin-plated copper braid.
- 5 • Fire resistant elastomer - type EM 104 as per EN 50264-2-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections or constructions on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-2 600V number of cores x < cross-section > MM S - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374H0102	2 x 1.5	0.8	3.3	1.4	9.3	10.9	111
374H0202	3 x 1.5	0.8	3.3	1.4	9.8	11.4	138
374H0302	4 x 1.5	0.8	3.3	1.4	10.5	12.3	168
374H0402	2 x 2.5	0.8	3.6	1.4	10.2	11.9	138
374H0502	3 x 2.5	0.8	3.6	1.4	10.7	12.5	176
374H0602	4 x 2.5	0.8	3.6	1.4	11.8	13.9	216
374H0702	2 x 4	0.8	4.3	1.4	11.5	13.4	179
374H0802	3 x 4	0.8	4.3	1.4	12.0	14.1	233
374H0902	4 x 4	0.8	4.3	1.4	13.1	15.3	290
374H1002	2 x 6	0.9	5.0	1.4	12.9	15.1	235
374H1102	3 x 6	0.9	5.0	1.4	13.6	16.0	311
374H1202	4 x 6	0.9	5.0	1.4	14.9	17.4	394
374H1302	2 x 10	1.1	6.7	1.5	15.5	18.2	365
374H1402	3 x 10	1.1	6.7	1.5	16.7	19.6	492
374H1502	4 x 10	1.1	6.7	1.6	18.4	21.6	634
374H1602	2 x 16	1.1	7.9	1.5	17.9	20.9	503
374H1702	3 x 16	1.1	7.9	1.6	19.1	22.3	702
374H1802	4 x 16	1.1	7.9	1.7	21.1	24.6	908
374H1902	2 x 25	1.3	9.7	1.7	21.6	25.3	746
374H2002	3 x 25	1.3	9.7	1.7	22.9	26.8	1038
374H2102	4 x 25	1.3	9.7	1.8	25.6	29.9	1348
374H2202	2 x 35	1.3	11.0	1.8	24.4	28.6	979
374H2302	3 x 35	1.3	11.0	1.8	26.0	30.5	1368
374H2402	2 x 50	1.5	11.0	1.9	28.2	33.0	1342
374H2502	3 x 50	1.5	13.0	2.0	30.3	35.4	1906

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VARPREN® RW

EN 50264-2-1 600V MM S

Sheathed and screened cable



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke
Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-1 600V < cross-section > MM S - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal conductor diameter (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
379O0102	1	32 x 0.20	3.0	6.0	7.0	20	72
379O0202	1.5	30 x 0.25	3.3	6.2	7.2	13.7	81
379O0302	2.5	50 x 0.25	3.6	6.6	7.6	8.21	95
379O0402	4	56 x 0.30	4.3	7.3	8.3	5.09	119
379O0502	6	84 x 0.30	5.0	8.1	9.1	3.39	154
379O0602	10	80 x 0.40	6.7	9.8	10.8	1.95	224
379O0702	16	126 x 0.40	7.9	11.1	12.3	1.24	306
379O0802	25	196 x 0.40	9.7	13.0	14.2	0.795	445
379O0902	35	276 x 0.40	11.0	14.3	15.5	0.565	562
379O1002	50	396 x 0.40	13.0	16.5	17.7	0.393	748
379O1102	70	360 x 0.50	14.7	18.4	19.7	0.277	978
379O1202	95	485 x 0.50	16.6	20.5	21.8	0.210	1261
379O1302	120	608 x 0.50	19.0	22.9	24.2	0.164	1577
379O1402	150	756 x 0.50	22.4	26.7	28.1	0.132	1978
379O1502	185	944 x 0.50	24.0	28.3	29.7	0.108	2334

This product is a cable EN 50264-2-1 600V M screened and sheathed.
It is not described in EN 50264-1 and EN 50264-2-1 standards.

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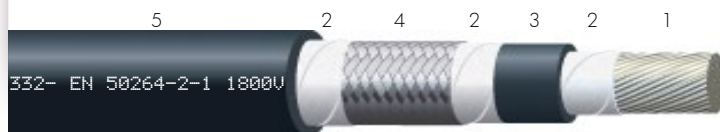
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LES CABLES DE L'EXTREME

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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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VARPREN® RW

EN 50264-2-1 1800V MM S

Sheathed and screened cable



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 1.8 / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-1 1800V < cross-section > MM S - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal conductor diameter (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
379P0102	1	32 x 0.20	6.4	9.5	10.6	20	92
379P0202	1.5	30 x 0.25	6.7	9.8	11.0	13.7	102
379P0302	2.5	50 x 0.25	7.0	10.1	11.4	8.21	117
379P0402	4	56 x 0.30	7.7	10.7	12.1	5.09	142
379P0502	6	84 x 0.30	8.2	11.4	12.8	3.39	175
379P0602	10	80 x 0.40	9.5	12.7	14.5	1.95	293
379P0702	16	126 x 0.40	10.7	14.0	15.9	1.24	382
379P0802	25	196 x 0.40	12.1	15.6	17.8	0.795	517
379P0902	35	276 x 0.40	13.4	16.9	19.3	0.565	640
379P1002	50	396 x 0.40	15.0	18.5	21.2	0.393	815
379P1102	70	360 x 0.50	16.7	20.4	23.4	0.277	1051
379P1202	95	485 x 0.50	18.8	22.7	25.4	0.210	1352
379P1302	120	608 x 0.50	21.2	25.3	28.8	0.164	1680
379P1402	150	756 x 0.50	24.0	28.3	32.2	0.132	2050
379P1502	185	944 x 0.50	25.6	29.9	34.0	0.108	2410

This product is a cable EN 50264-2-1 1800V M screened
It is not described in EN 50264-1 and EN 50264-2-1 standards.

For this product, please contact :

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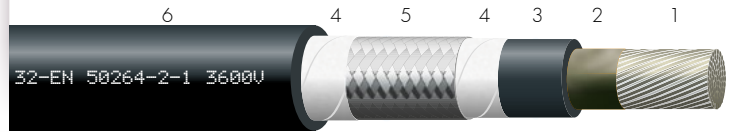
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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-2-1 3600V MM S

Sheathed and screened cable



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections or constructions on request.

- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Semi-conductive tape.
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-1.
- 4 • Separating tape (optional).
- 5 • Tin-plated copper braid.
- 6 • Fire resistant elastomer - type EM 104 as per EN 50264-2-1.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-2-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-2-1 3600V < cross-section > MM S - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal conductor diameter (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
379Q0102	2.5	50 x 0.25	8.0	11.2	12.4	8.21	216
379Q0202	4	56 x 0.30	8.7	11.8	13.1	5.09	246
379Q0302	6	84 x 0.30	9.2	12.4	13.8	3.39	279
379Q0402	10	80 x 0.40	10.5	13.7	15.5	1.95	350
379Q0502	16	126 x 0.40	11.7	15.0	16.9	1.24	444
379Q0602	25	196 x 0.40	13.1	16.6	18.8	0.795	588
379Q0702	35	276 x 0.40	14.4	17.9	20.3	0.565	715
379Q0802	50	396 x 0.40	16.0	19.5	22.2	0.393	896
379Q0902	70	360 x 0.50	17.7	21.4	23.4	0.277	1140
379Q1002	95	485 x 0.50	19.4	23.3	26.0	0.210	1425
379Q1102	120	608 x 0.50	22.0	26.1	29.6	0.164	1775
379Q1202	150	756 x 0.50	24.8	29.1	33.0	0.132	2155
379Q1302	185	944 x 0.50	26.6	30.9	35.0	0.108	2537

This product is a cable EN 50264-2-1 3600V MM screened.
It is not described in EN 50264-1 and EN 50264-2-1 standards.

For this product, please contact :

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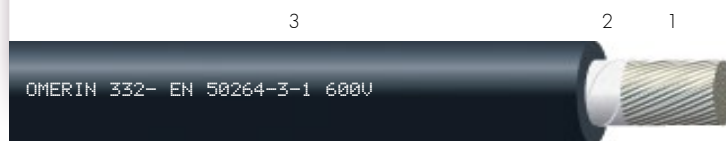
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VARPREN® RW

EN 50264-3-1 600V M

Unsheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-1 600V < cross-section > M - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
374I0302	1	32 x 0.20	0.6	2.4	2.8	20	15
374I0402	1.5	30 x 0.25	0.7	2.8	3.3	13.7	22
374I0202	2.5	50 x 0.25	0.7	3.2	3.8	8.21	33
374I0502	4	56 x 0.30	0.7	3.8	4.4	5.09	46
374I0602	6	84 x 0.30	0.7	4.2	5.0	3.39	67
374I0102	10	80 x 0.40	0.7	5.1	5.9	1.95	106
374I0702	16	126 x 0.40	0.7	6.1	7.2	1.24	165
374I0802	25	196 x 0.40	0.9	7.8	9.1	0.795	258
374I0902	35	276 x 0.40	0.9	9.0	10.6	0.565	353
374I1002	50	396 x 0.40	1.0	10.6	12.4	0.393	499
374I1102	70	360 x 0.50	1.1	12.5	14.6	0.277	695
374I1202	95	485 x 0.50	1.1	13.9	16.3	0.210	927
374I1302	120	608 x 0.50	1.2	15.7	18.4	0.164	1146
374I1402	150	756 x 0.50	1.4	17.6	20.6	0.132	1470
374I1502	185	944 x 0.50	1.6	19.6	22.9	0.108	1766
374I1602	240	1221 x 0.50	1.7	22.2	26.0	0.0817	2330
374I1702	300	1525 x 0.50	1.8	24.6	28.8	0.0654	2909

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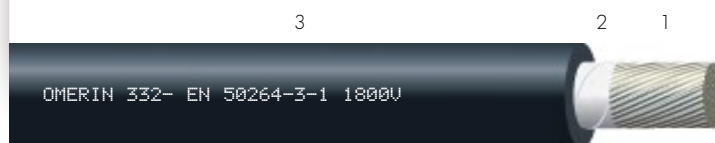
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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-3-1 1800V M

Unsheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 1.8 kV / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-1 1800V < cross-section > M - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
374J0102	1.5	30 x 0.25	2.0	5.3	6.2	13.7	49
374J0202	2.5	50 x 0.25	2.0	5.7	6.7	8.21	63
374J0302	4	56 x 0.30	2.0	6.2	7.3	5.09	77
374J0402	6	84 x 0.30	2.0	6.7	7.8	3.39	105
374J0502	10	80 x 0.40	2.0	7.5	8.8	1.95	151
374J0602	16	126 x 0.40	2.0	8.6	10.0	1.24	216
374J0702	25	196 x 0.40	2.0	9.9	11.6	0.795	312
374J0802	35	276 x 0.40	2.0	11.1	13.0	0.565	411
374J0902	50	396 x 0.40	2.0	12.5	14.6	0.393	560
374J1002	70	360 x 0.50	2.0	14.2	16.6	0.277	754
374J1102	95	485 x 0.50	2.2	16.0	18.7	0.210	1013
374J1202	120	608 x 0.50	2.2	17.6	20.6	0.164	1234
374J1302	150	756 x 0.50	2.2	19.1	22.3	0.132	1559
374J1402	185	944 x 0.50	2.4	20.9	24.4	0.108	1853
374J1502	240	1221 x 0.50	2.4	23.7	27.5	0.0817	2415
374J1602	300	1525 x 0.50	2.4	25.6	30.1	0.0654	2957

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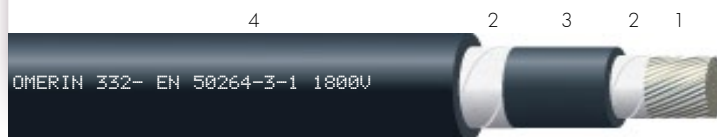
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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-3-1 1800V MM

Sheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-1.
- 4 • Fire resistant elastomer - type EM 104 as per EN 50264-3-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 1.8 kV / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-1 1800V < cross-section > MM - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
374K0602	1.5	30 x 0.25	1.3	0.8	5.7	6.7	13.7	54
374K0702	2.5	50 x 0.25	1.3	0.8	6.0	7.0	8.21	74
374K0802	4	56 x 0.30	1.3	0.8	6.5	7.6	5.09	95
374K0902	6	84 x 0.30	1.3	0.8	7.0	8.1	3.39	119
374K0202	10	80 x 0.40	1.5	0.8	8.2	9.6	1.95	179
374K1002	16	126 x 0.40	1.5	0.8	9.2	10.8	1.24	252
374K1102	25	196 x 0.40	1.8	1.0	11.5	13.4	0.795	382
374K1202	35	276 x 0.40	1.8	1.0	12.7	14.9	0.565	491
374K1302	50	396 x 0.40	1.8	1.0	14.1	16.5	0.393	649
374K0302	70	360 x 0.50	1.8	1.0	15.8	18.5	0.277	857
374K0402	95	485 x 0.50	2.2	1.0	18.0	21.0	0.210	1145
374K0502	120	608 x 0.50	2.2	1.0	19.6	22.9	0.164	1409
374K1402	150	756 x 0.50	2.2	1.2	21.4	25.1	0.132	1756
374K1502	185	944 x 0.50	2.4	1.2	23.4	27.4	0.108	2124
374K1602	240	1221 x 0.50	2.4	1.2	25.9	30.3	0.0817	1575
374K1702	300	1525 x 0.50	2.4	1.2	28.1	32.9	0.0654	1939

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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-3-1 3600V MM

Sheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Semi-conductive tape.
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-1.
- 4 • Separating tape (optional).
- 5 • Fire resistant elastomer - type EM 104 as per EN 50264-3-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire smoke protection (EN 45545-2).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-1.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-1 3600V < cross-section > MM - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
374L0102	2.5	50 x 0.25	2.6	0.8	8.6	10.1	8.21	113
374L0302	4	56 x 0.30	2.6	0.8	9.1	10.7	5.09	137
374L0402	6	84 x 0.30	2.6	0.8	9.6	11.2	3.39	164
374L0502	10	80 x 0.40	2.6	0.8	10.4	12.2	1.95	221
374L0602	16	126 x 0.40	2.6	0.8	11.5	13.4	1.24	294
374L0702	25	196 x 0.40	2.9	1.0	13.7	16.1	0.795	432
374L0802	35	276 x 0.40	2.9	1.0	14.9	17.5	0.565	546
374L0902	50	396 x 0.40	2.9	1.0	16.4	19.1	0.393	709
374L1002	70	360 x 0.50	2.9	1.0	18.0	21.1	0.277	920
374L1102	95	485 x 0.50	2.9	1.0	19.5	22.8	0.210	1174
374L1202	120	608 x 0.50	2.9	1.2	21.4	25.1	0.164	1465
374L1302	150	756 x 0.50	2.9	1.2	22.9	26.8	0.132	1788
374L1402	185	944 x 0.50	3.2	1.2	25.1	29.4	0.108	2172
374L0202	240	1221 x 0.50	3.4	1.4	28.3	33.1	0.0817	2758
374L1502	300	1525 x 0.50	3.4	1.4	30.6	35.8	0.0654	3364

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VARPREN® RW

EN 50264-3-2 300V MM

Sheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-2.
- 4 • Fire resistant elastomer - type EM 104 as per EN 50264-3-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Other cross-sections or constructions on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-2 300V number of cores < cross-section > MM - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374M0102	2 x 1	0.4	2.2	0.6	5.3	6.2	40
374M0202	4 x 1	0.4	2.2	0.6	6.1	7.2	68
374M0302	7 x 1	0.4	2.2	0.6	7.5	8.7	114
374M0402	9 x 1	0.4	2.2	0.6	9.1	10.6	145
374M0502	12 x 1	0.4	2.2	0.6	9.8	11.5	185
374M0602	19 x 1	0.4	2.2	0.7	11.7	13.7	286
374M0702	24 x 1	0.4	2.2	0.7	14.1	16.5	371
374M0802	32 x 1	0.4	2.2	0.7	15.5	18.2	479
374M0902	37 x 1	0.4	2.2	0.8	16.1	18.9	546
374M1002	40 x 1	0.4	2.2	1.0	16.7	19.6	587
374M1102	4 x 1.5	0.5	2.7	1.0	7.3	8.6	98
374M1202	7 x 1.5	0.5	2.7	1.0	8.7	10.2	156
374M1302	9 x 1.5	0.5	2.7	1.0	10.9	12.7	212
374M1402	12 x 1.5	0.5	2.7	0.7	11.8	13.8	273
374M1502	19 x 1.5	0.5	2.7	0.7	14.2	16.6	427
374M1602	24 x 1.5	0.5	2.7	0.8	16.6	19.5	534
374M1702	32 x 1.5	0.5	2.7	0.8	18.7	21.9	713
374M1802	37 x 1.5	0.5	2.7	1.0	19.5	22.8	811
374M1902	4 x 2.5	0.5	3.1	1.0	8.3	9.8	140
374M2002	7 x 2.5	0.5	3.1	1.2	10.2	11.9	232
374M2102	9 x 2.5	0.5	3.1	1.2	12.9	15.1	319
374M2202	12 x 2.5	0.5	3.1	0.7	13.9	16.3	410
374M2302	19 x 2.5	0.5	3.1	0.8	16.3	19.1	623
374M2402	24 x 2.5	0.5	3.1	1.0	19.6	22.9	800

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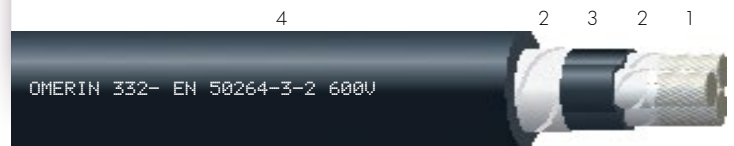
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VARPREN® RW

EN 50264-3-2 600V MM

Sheathed cable

STANDARD POWER CABLES - EN 50264-2 / EN 50264-3



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-2.
- 4 • Fire resistant elastomer - type EM 104 as per EN 50264-3-2.

Characteristics

Thermal
Continuous operating temperature:
-40 °C to +90 °C.

Electrical
Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical
Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical
Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke
Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options
Other cross-sections or constructions on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-2 600V < cross-section > MM - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374N0302	2 x 1.5	0.7	3.1	0.7	7.2	9.0	77
374N1202	3 x 1.5	0.7	3.1	0.7	7.7	9.5	131
374N1902	4 x 1.5	0.7	3.1	0.7	8.5	10.5	204
374N0402	2 x 2.5	0.7	3.5	0.7	8.0	10.0	91
374N0102	3 x 2.5	0.7	3.5	0.7	8.5	10.5	124
374N2002	4 x 2.5	0.7	3.5	0.7	9.4	11.6	158
374N5002	2 x 4	0.7	4.0	0.7	9.1	11.3	127
374N1302	3 x 4	0.7	4.0	0.7	9.7	12.0	176
374N2102	4 x 4	0.7	4.0	0.8	10.9	13.4	231
374N7602	2 x 6	0.7	4.6	0.8	10.1	12.4	175
374N5702	3 x 6	0.7	4.6	0.8	10.7	13.2	244
374N2202	4 x 6	0.7	4.6	1.0	12.2	14.9	327
374N7702	2 x 10	0.7	5.8	1.0	12.5	15.4	279
374N0202	3 x 10	0.7	5.8	1.0	13.3	16.5	390
374N2302	4 x 10	0.7	5.8	1.0	14.7	18.2	503
374N7802	2 x 16	0.7	7.0	1.0	14.9	18.4	407
374N7902	3 x 16	0.7	7.0	1.0	16.0	19.6	576
374N8002	4 x 16	0.7	7.0	1.2	18.0	22.1	766
374N8102	2 x 25	0.9	8.8	1.2	18.7	23.0	630
374N1602	3 x 25	0.9	8.8	1.2	20.0	24.7	895
374N2502	4 x 25	0.9	8.8	1.2	22.6	27.6	1187
374N8202	2 x 35	0.9	10.2	1.2	21.2	25.9	835
374N8302	3 x 35	0.9	10.2	1.2	23	28.2	1196
374N8402	2 x 50	1.0	11.9	1.4	25.1	30.7	1175
374N8502	3 x 50	1.0	11.9	1.4	26.3	32.2	1684

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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-3-2 300V MM S

Sheathed and screened cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-2.
- 4 • Tin-plated copper braid.
- 5 • Fire resistant elastomer - type EM 104 as per EN 50264-3-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2);
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections or constructions on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-2 300V number of cores < cross-section > MM S - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374O1502	2 x 1	0.4	2.2	0.6	6.0	7.4	67
374O1602	4 x 1	0.4	2.2	0.7	7.0	8.6	103
374O1702	7 x 1	0.4	2.2	0.7	8.2	10.0	152
374O1802	9 x 1	0.4	2.2	0.8	10.1	12.1	204
374O1902	12 x 1	0.4	2.2	0.8	10.8	13.0	250
374O1002	19 x 1	0.4	2.2	1.0	12.9	15.5	369
374O1102	24 x 1	0.4	2.2	1.0	15.1	18.1	480
374O1202	32 x 1	0.4	2.2	1.0	16.4	19.8	600
374O2002	37 x 1	0.4	2.2	1.0	17.1	20.6	672
374O2102	40 x 1	0.4	2.2	1.2	18.1	21.7	737
374O1402	4 x 1.5	0.5	2.7	0.7	8.1	9.7	138
374O2202	7 x 1.5	0.5	2.7	0.8	9.6	11.4	208
374O0602	9 x 1.5	0.5	2.7	0.7	12.3	14.3	290
374O2302	12 x 1.5	0.5	2.7	1.0	13.2	15.4	357
374O2402	19 x 1.5	0.5	2.7	1.0	15.4	18.0	538
374O2502	24 x 1.5	0.5	2.7	1.0	18.3	21.3	684
374O2602	32 x 1.5	0.5	2.7	1.2	20.0	23.4	859
374O2702	37 x 1.5	0.5	2.7	1.2	20.8	24.2	964
374O2802	4 x 2.5	0.5	3.1	1.2	9.0	10.6	185
374O2902	7 x 2.5	0.5	3.1	0.7	11.0	12.8	299
374O3002	9 x 2.5	0.5	3.1	0.8	13.7	15.7	393
374O3102	12 x 2.5	0.5	3.1	1.0	14.9	17.1	515
374O3202	19 x 2.5	0.5	3.1	1.0	17.6	20.2	764
374O3302	24 x 2.5	0.5	3.1	1.2	20.5	23.5	949

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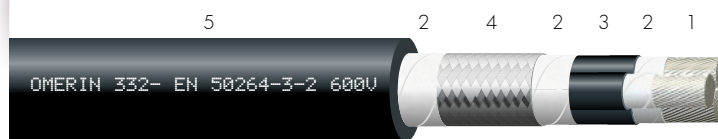
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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-3-2 600V MM S

Sheathed and screened cable



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections or constructions on request.

Standards and approvals

- EN 60228, EN 50264-1, EN 50264-3-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 332- EN 50264-3-2 600V number of cores < cross-section > MM S - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
374P0302	2 x 1.5	0.7	3.1	0.7	7.8	9.4	103
374P0802	3 x 1.5	0.7	3.1	0.7	8.3	9.9	129
374P0502	4 x 1.5	0.7	3.1	0.7	9.2	10.6	157
374P0402	2 x 2.5	0.7	3.5	0.7	8.4	10.7	132
374P0702	3 x 2.5	0.7	3.5	0.7	8.5	11.7	169
374P1802	4 x 2.5	0.7	3.5	0.8	10.5	12.1	93
374P1902	2 x 4	0.7	4.0	0.8	9.1	11.7	172
374P0102	3 x 4	0.7	4.0	0.8	9.4	12.7	230
374P0202	4 x 4	0.7	4.0	0.8	11.1	13.1	286
374P1202	2 x 6	0.7	4.6	0.8	10.4	13.5	233
374P2002	3 x 6	0.7	4.6	0.8	10.8	14.6	307
374P0902	4 x 6	0.7	4.6	1.0	12.6	15.9	399
374P1302	2 x 10	0.7	5.8	1.0	12.9	17.0	353
374P2102	3 x 10	0.7	5.8	1.0	13.6	18.5	494
374P2202	4 x 10	0.7	5.8	1.0	16.3	18.8	619
374P2302	2 x 16	0.7	7.0	1.0	15.4	19.8	520
374P1002	3 x 16	0.7	7.0	1.2	16.3	21.8	717
374P2402	4 x 16	0.7	7.0	1.2	18.8	23.0	906
374P2502	2 x 25	0.9	8.8	1.2	19.0	24.2	772
374P2602	3 x 25	0.9	8.8	1.2	19.5	26.5	1049
374P2702	4 x 25	0.9	8.8	1.4	24.3	27.3	1400
374P2802	2 x 35	0.9	10.2	1.4	21.7	27.8	1057
374P2902	3 x 35	0.9	10.2	1.4	22.9	29.9	1436
374P3002	2 x 50	1.0	11.2	1.4	24.8	32.0	1407
374P3102	3 x 50	1.0	12.0	1.6	28.1	33.2	1966

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* Sections not specified by the standard EN 50264-3-2 600V MM S.

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HIGH TEMPERATURE POWER CABLES EN 50382-2

FT No.	PRODUCT REFERENCE	PAGE
5300	HIGH TEMPERATURE POWER CABLES – EN 50382-2	37
5301	SILICABLE® RW EN 50382-2 1800V F 120 °C	38
5302	SILICABLE® RW EN 50382-2 1800V F 150 °C	39
5303	SILICABLE® RW EN 50382-2 3600V F 120 °C	40
5304	SILICABLE® RW EN 50382-2 3600V F 150 °C	41
5305	SILICABLE® RW EN 50382-2 1800V FF 120 °C	42
5306	SILICABLE® RW EN 50382-2 1800V FF 150 °C	43
5307	SILICABLE® RW EN 50382-2 3600V FF 150 °C	44
5308	SILICABLE® RW EN 50382-2 3600V FF 120 °C	45
5309	SILICABLE® RW EN 50382-2 3600V FXZ 120 °C	46
5310	SILICABLE® RW EN 50382-2 3600V FXZ 150 °C	47
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5313	SILICABLE® RW EN 50382-2 3600V FFXZ S 120 °C	50

CABLE SOLUTIONS
FOR ROLLING STOCK

HIGH TEMPERATURE POWER CABLES

EN 50382-2

FT No.	OMERIN reference	Single or multicore type	Core insulation type	Core insulation thickness	Screened by a tin-plated copper braid	Outer sheath type	Operating temperature (°C)	Operating voltage (V)	IRM902 Mineral Oil Resistant	IRM 903 Fuel Resistant	Halogen-free Low Smoke	Application
				Standard								
5301	SILICABLE RW EN 50382-2 1800V F 120 °C	Single core	EI 111	✓			120	1800	✓		✓	High temperature power cables with special fire performance for traction and power circuits.
5302	SILICABLE RW EN 50382-2 1800V F 150 °C	Single core	EI 111	✓			150	1800	✓		✓	High temperature power cables with special fire performance for traction and power circuits.
5303	SILICABLE RW EN 50382-2 3600V F 120 °C	Single core	EI 111	✓			120	3600	✓		✓	High temperature power cables with special fire performance for traction and power circuits.
5304	SILICABLE RW EN 50382-2 3600V F 150 °C	Single core	EI 111	✓			150	3600	✓		✓	High temperature power cables with special fire performance for traction and power circuits.
5305	SILICABLE RW EN 50382-2 1800V FF 120 °C	Single core	EI 111	✓		EM 106	120	1800	✓		✓	High temperature power cables with special fire performance for traction and power circuits, with protective outer sheath and flexible class 5 tin-plated copper core.
5306	SILICABLE RW EN 50382-2 1800V FF 150 °C	Single core	EI 111	✓		EM 107	150	1800	✓		✓	High temperature power cables with special fire performance for traction and power circuits, with protective outer sheath and flexible class 5 bare copper core.
5307	SILICABLE RW EN 50382-2 3600V FF 150 °C	Single core	EI 111	✓		EM 107	150	3600	✓		✓	High temperature power cables with special fire performance for traction and power circuits, with protective outer sheath and flexible class 5 bare copper core.
5308	SILICABLE RW EN 50382-2 3600V FF 120 °C	Single core	EI 111	✓		EM 106	120	3600	✓		✓	High temperature power cables with special fire performance for traction and power circuits, with protective outer sheath and flexible class 5 bare copper core.
5309	SILICABLE RW EN 50382-2 3600V FXZ 120 °C	Single core	EI 111	✓			120	3600	✓		✓	High temperature power cables with special fire performance for traction and power circuits, with synthetic reinforcing braid within the insulation and extra flexible class 6 tin-plated copper core.
5310	SILICABLE RW EN 50382-2 3600V FXZ 150 °C	Single core	EI 111	✓			150	3600	✓		✓	High temperature power cables with special fire performance for traction and power circuits, with synthetic reinforcing braid within the insulation and extra flexible class 6 tin-plated copper core.

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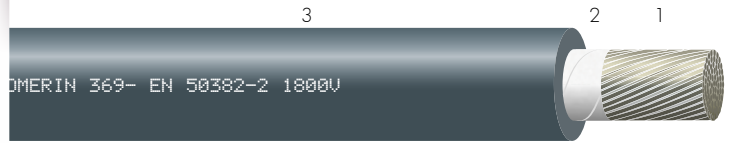
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FT No.	OMERIN reference	Single or multicore type	Core insulation type	Core insulation thickness	Screened by a tin-plated copper braid	Outer sheath type	Operating temperature (°C)	Operating voltage (V)	IRM902 Mineral Oil Resistant	IRM 903 Fuel Resistant	Halogen-free Low Smoke	Application	
				Standard									
5311	SILICABLE RW EN 50382-2 1800V FF S 120 °C	Single core	EI 111	✓	✓	EM 107	120	1800	✓			✓	High temperature power cables with special fire performance for traction and power circuits, with synthetic reinforcing braid within the insulation and extra flexible class 5 tin-plated copper core.
5312	SILICABLE RW EN 50382-2 3600V FF S 120 °C	Single core	EI 111	✓	✓	EMI 107	120	3600	✓			✓	High temperature power cables with special fire performance for traction and power circuits, with synthetic reinforcing braid within the insulation, tin-plated copper braid screen and extra flexible class 6 tin-plated copper core.
5313	SILICABLE RW EN 50382-2 3600V FFXZS 120 °C	Single core	EI 111	✓	✓	EM 107	120	3600	✓			✓	High temperature power cables with special fire performance for traction and power circuits, with synthetic reinforcing braid within the insulation and extra flexible class 5 tin-plated copper core.

SILICABLE® RW

EN 50382-2 1800V F 120 °C

Unsheathed cable



- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +120 °C.

Electrical

Operating voltage: 1.8 / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Resistance to alternate bending: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius
(EN 50355): 3xD.

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Cable with synthetic reinforcing braid.

Ref: SILICABLE® RW EN 50382-2 1800V FZ 120 °C.
Temperature 150 °C authorized for CuSn.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 1800V 1x < cross-section > F 120 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
A0821005	1.5	30 × 0.25	2.5	6.3	7.3	13.7	60
A0821006	2.5	50 × 0.25	2.5	6.7	7.8	8.21	70
A0821007	4	56 × 0.30	2.5	7.2	8.4	5.09	90
A0821008	6	84 × 0.30	2.5	7.7	9	3.39	115
A0821009	10	80 × 0.40	2.5	8.5	10	1.95	160
A0821010	16	126 × 0.40	2.5	9.6	11.2	1.24	230
A0821003	25	196 × 0.40	2.5	10.9	12.7	0.795	320
A0821011	35	276 × 0.40	2.5	12.1	14.1	0.565	420
A0821012	50	396 × 0.40	2.5	13.5	15.8	0.393	570
A0821004	70	360 × 0.50	2.5	15.2	17.8	0.277	770
A0821002	95	485 × 0.50	2.7	17	19.9	0.210	1030
A0821013	120	608 × 0.50	2.7	18.6	21.7	0.164	1270
A0821014	150	756 × 0.50	2.7	20.1	23.5	0.132	1560
A0821001	185	944 × 0.50	2.7	21.7	25.4	0.108	1900
A0821015	240	1221 × 0.50	2.7	24.1	28.2	0.0817	2410
A0821016	300	1525 × 0.50	2.7	26.4	30.9	0.0654	2970
A0821017	400	2037 × 0.50	2.9	29.9	34.9	0.0495	3900

If textile braid, maximal diameter should be increased by 0.8 mm.

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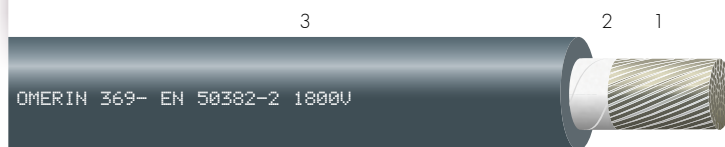
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SILICABLE® RW

EN 50382-2 1800V F 150 °C

Unsheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +150 °C.

Electrical

Operating voltage: 1.8 / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius
(EN 50355): 3xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2).

Options

Cable with synthetic reinforcing braid.

Ref: SILICABLE® RW EN 50382-2 1800V FZ 150 °C.
Flexible red copper core - class 5 - EN 60228.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 1800V 1x < cross-section > F 150 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
A0822005	1.5	30 x 0.25	2.5	6.3	7.3	13.3	60
A0822006	2.5	50 x 0.25	2.5	6.7	7.8	7.98	70
A0822023	4	56 x 0.30	2.5	7.2	8.4	4.95	90
A0822007	6	84 x 0.30	2.5	7.7	9	3.30	115
A0822010	10	80 x 0.40	2.5	8.5	10	1.91	160
A0822011	16	126 x 0.40	2.5	9.6	11.2	1.21	230
A0822012	25	196 x 0.40	2.5	10.9	12.7	0.78	320
A0822013	35	276 x 0.40	2.5	12.1	14.1	0.554	420
A0822014	50	396 x 0.40	2.5	13.5	15.8	0.386	570
A0822015	70	360 x 0.50	2.5	15.2	17.8	0.272	770
A0822016	95	485 x 0.50	2.7	17	19.9	0.206	1030
A0822017	120	608 x 0.50	2.7	18.6	21.7	0.161	1270
A0822018	150	756 x 0.50	2.7	20.1	23.5	0.129	1560
A0822019	185	944 x 0.50	2.7	21.7	25.4	0.106	1900
A0822020	240	1221 x 0.50	2.7	24.1	28.2	0.0801	2410
A0822021	300	1525 x 0.50	2.7	26.4	30.9	0.0641	2970
A0822022	400	2037 x 0.50	2.9	29.9	34.9	0.0486	3900

If textile braid, maximal diameter should be increased by 0.8 mm.

For this product, please contact :

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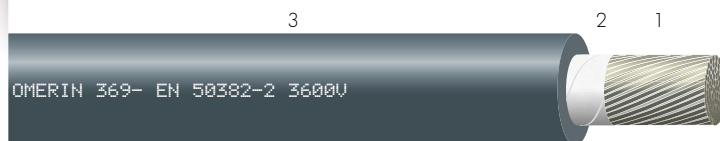
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SILICABLE® RW

EN 50382-2 3600V F 120 °C

Unsheathed cable



- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +120 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius
(EN 50355): 3xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Cable with synthetic reinforcing braid.

Ref: SILICABLE® RW EN 50382-2 3600V FZ 120 °C.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > F 120 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
A0819001	2.5	50 x 0.25	3	7.6	8.9	8.21	80
A0819002	4	56 x 0.30	3	8.1	9.5	5.09	100
A0819003	6	84 x 0.30	3	9.0	10.6	3.39	130
A0819004	10	80 x 0.40	3	9.5	11.1	1.95	180
A0819005	16	126 x 0.40	3	10.5	12.3	1.24	250
A0819006	25	196 x 0.40	3	11.8	13.8	0.795	350
A0819007	35	276 x 0.40	3	13.0	15.2	0.565	450
A0819008	50	396 x 0.40	3	14.4	16.9	0.393	600
A0819009	70	360 x 0.50	3	16.1	18.9	0.277	800
A0819010	95	485 x 0.50	3	17.5	20.5	0.210	1050
A0819011	120	608 x 0.50	3.1	19.3	22.6	0.164	1300
A0819012	150	756 x 0.50	3.1	20.8	24.4	0.132	1550
A0819013	185	944 x 0.50	3.2	22.6	26.5	0.108	1950
A0819014	240	1221 x 0.50	3.4	25.4	29.8	0.0817	2500
A0819015	300	1525 x 0.50	3.4	27.7	32.4	0.0654	3050
A0819016	400	2037 x 0.50	3.4	30.8	36.0	0.0495	3950

If textile braid, maximal diameter should be increased by 0.8 mm.

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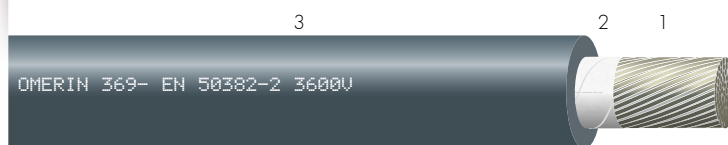
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SILICABLE® RW

EN 50382-2 3600V F 150 °C

Unsheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +150 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius
(EN 50355): 3xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2).

Options

Cable with synthetic reinforcing braid.

Ref: SILICABLE® RW EN 50382-2 3600V FZ 150 °C.
Flexible red copper core - class 5 - EN 60228.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > F 150 °C - batch number - week/year

Item code	Nominal cross-section (mm²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
A0820007	2.5	50 x 0.25	3	7.6	8.9	7.98	80
A0820008	4	56 x 0.30	3	8.1	9.5	4.95	100
A0820009	6	84 x 0.30	3	9.0	10.6	3.30	130
A0820010	10	80 x 0.40	3	9.5	11.1	1.91	180
A0820022	16	126 x 0.40	3	10.5	12.3	1.21	250
A0820011	25	196 x 0.40	3	11.8	13.8	0.780	350
A0820012	35	276 x 0.40	3	13.0	15.2	0.554	450
A0820013	50	396 x 0.40	3	14.4	16.9	0.386	600
A0820005	70	360 x 0.50	3	16.1	18.9	0.272	800
A0820015	95	485 x 0.50	3	17.5	20.5	0.206	1050
A0820004	120	608 x 0.50	3.1	19.3	22.6	0.161	1300
A0820017	150	756 x 0.50	3.1	20.8	24.4	0.129	1550
A0820018	185	944 x 0.50	3.2	22.6	26.5	0.106	1950
A0820019	240	1221 x 0.50	3.4	25.4	29.8	0.0801	2500
A0820020	300	1525 x 0.50	3.4	27.7	32.4	0.0641	3050
A0820021	400	2037 x 0.50	3.4	30.8	36.0	0.0486	3950

If textile braid, maximal diameter should be increased by 0.8 mm.

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SILICABLE® RW

EN 50382-2 1800V FF 120 °C

Sheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Flexible tin-plated copper - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.
- 4 • Fire resistant elastomer with high mechanical properties - type EM 106. as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +120 °C.

Electrical

Operating voltage: 1.8 / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius:
8xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Temperature 150 °C authorized for CuSn.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 1800V 1x < cross-section > FF 120 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
A0823001	1.5	30 x 0.25	1.3	1.4	6.8	7.9	13.7	60
A0823002	2.5	50 x 0.25	1.3	1.4	7.2	8.4	8.21	75
A0823003	4	56 x 0.30	1.3	1.4	7.7	9.0	5.09	100
A0823004	6	84 x 0.30	1.3	1.4	8.2	9.6	3.39	120
A0823005	10	80 x 0.40	1.5	1.4	9.4	11	1.95	180
A0823006	16	126 x 0.40	1.5	1.4	10.5	12.2	1.24	240
A0823007	25	196 x 0.40	1.8	1.4	12.3	14.4	0.795	360
A0823008	35	276 x 0.40	1.8	1.4	13.6	15.9	0.565	460
A0823009	50	396 x 0.40	1.8	1.4	15	17.5	0.393	610
A0823010	70	360 x 0.50	1.8	1.5	16.8	19.7	0.277	830
A0823011	95	485 x 0.50	2.2	1.5	19	22.2	0.210	1100
A0823012	120	608 x 0.50	2.2	1.6	20.8	24.3	0.164	1360
A0823013	150	756 x 0.50	2.2	1.6	22.3	26.1	0.132	1660
A0823014	185	944 x 0.50	2.4	1.7	24.5	28.6	0.108	2030
A0823015	240	1221 x 0.50	2.4	1.8	27.1	31.7	0.0817	2580
A0823016	300	1525 x 0.50	2.4	1.9	29.5	34.6	0.0654	3180
A0823017	400	2037 x 0.50	2.6	2	33.2	38.9	0.0495	4180

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SILICABLE® RW

EN 50382-2 1800V FF 150 °C

Sheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.
- 4 • Silicone rubber with high mechanical properties - type EM 107 as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C at +150 °C.

Electrical

Operating voltage: 1.8 / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius
(EN 50355): 5xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Flexible red copper core - class 5 - EN 60228.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 1800V 1x < cross-section > FF 150 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
A0824001	1.5	30 x 0.25	1.3	1.4	6.8	7.9	13.3	60
A0824002	2.5	50 x 0.25	1.3	1.4	7.2	8.4	7.98	75
A0824003	4	56 x 0.30	1.3	1.4	7.7	9.0	4.95	100
A0824004	6	84 x 0.30	1.3	1.4	8.2	9.6	3.30	120
A0824005	10	80 x 0.40	1.5	1.4	9.4	11	1.91	180
A0824006	16	126 x 0.40	1.5	1.4	10.5	12.2	1.21	240
A0824007	25	196 x 0.40	1.8	1.4	12.3	14.4	0.78	360
A0824008	35	276 x 0.40	1.8	1.4	13.6	15.9	0.554	460
A0824009	50	396 x 0.40	1.8	1.4	15	17.5	0.386	610
A0824010	70	360 x 0.50	1.8	1.5	16.8	19.7	0.272	830
A0824011	95	485 x 0.50	2.2	1.5	19	22.2	0.206	1100
A0824012	120	608 x 0.50	2.2	1.6	20.8	24.3	0.161	1360
A0824013	150	756 x 0.50	2.2	1.6	22.3	26.1	0.129	1660
A0824014	185	944 x 0.50	2.4	1.7	24.5	28.6	0.106	2030
A0824015	240	1221 x 0.50	2.4	1.8	27.1	31.7	0.0801	2580
A0824016	300	1525 x 0.50	2.4	1.9	29.5	34.6	0.0641	3180
A0824017	400	2037 x 0.50	2.6	2	33.2	38.9	0.0486	4180

For this product, please contact :

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LES CABLES DE L'EXTREME

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SILICABLE® RW

EN 50382-2 3600V FF 150 °C

Sheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.
- 4 • Silicone rubber with high mechanical properties - type EM 107 as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C at +150 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius
(EN 50355): 5xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Flexible red copper core - class 5 - EN 60228.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > FF 150 °C - batch number - week/year

Item code	Nominal cross-section (mm²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
A0828007	2.5	50 x 0.25	2.6	1.4	9.9	11.6	7.98	120
A0828008	4	56 x 0.30	2.6	1.4	10.4	12.2	4.95	140
A0823009	6	84 x 0.30	2.6	1.4	10.9	12.8	3.30	170
A0823010	10	80 x 0.40	2.6	1.4	11.8	13.8	1.91	220
A0823011	16	126 x 0.40	2.6	1.4	12.8	15.0	1.21	300
A0823012	25	196 x 0.40	2.9	1.4	14.7	17.2	0.78	420
A0823013	35	276 x 0.40	2.9	1.4	15.9	18.6	0.554	520
A0823014	50	396 x 0.40	2.9	1.5	17.5	20.5	0.386	690
A0823015	70	360 x 0.50	2.9	1.5	19.2	22.4	0.272	910
A0823016	95	485 x 0.50	2.9	1.6	20.8	24.3	0.206	1170
A0823017	120	608 x 0.50	2.9	1.6	22.4	26.2	0.161	1420
A0823018	150	756 x 0.50	2.9	1.7	24.1	28.2	0.129	1740
A0823019	185	944 x 0.50	3.2	1.8	26.4	30.9	0.106	2130
A0823020	240	1221 x 0.50	3.4	1.9	29.4	34.4	0.0801	2710
A0823021	300	1525 x 0.50	3.4	1.9	31.7	37.1	0.0641	3310
A0823022	400	2037 x 0.50	3.4	2.0	35.0	40.9	0.0486	4300

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LES CABLES DE L'EXTREME

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SILICABLE® RW

EN 50382-2 3600V FF 120 °C

Sheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.
- 4 • Fire resistant elastomer with high mechanical properties - type EM 106. as per EN 50382-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C at +120 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius : 8xD.

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > FF 120 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
					Mini	Maxi		
A0827002	2.5	50 x 0.25	2.6	1.4	9.9	11.6	8.21	120
A0827003	4	56 x 0.30	2.6	1.4	10.4	12.2	5.09	140
A0827004	6	84 x 0.30	2.6	1.4	10.9	12.8	3.39	170
A0827005	10	80 x 0.40	2.6	1.4	11.8	13.8	1.95	220
A0827006	16	126 x 0.40	2.6	1.4	12.8	15.0	1.24	300
A0827007	25	196 x 0.40	2.9	1.4	14.7	17.2	0.795	420
A0827008	35	276 x 0.40	2.9	1.4	15.9	18.6	0.565	520
A0827009	50	396 x 0.40	2.9	1.5	17.5	20.5	0.393	690
A0827010	70	360 x 0.50	2.9	1.5	19.2	22.4	0.277	910
A0827011	95	485 x 0.50	2.9	1.6	20.8	24.3	0.210	1170
A0827012	120	608 x 0.50	2.9	1.6	22.4	26.2	0.164	1420
A0827013	150	756 x 0.50	2.9	1.7	24.1	28.2	0.132	1740
A0827014	185	944 x 0.50	3.2	1.8	26.4	30.9	0.108	2130
A0827001	240	1221 x 0.50	3.4	1.9	29.4	34.4	0.0817	2710
A0827015	300	1525 x 0.50	3.4	1.9	31.7	37.1	0.0654	3310
A0827016	400	2037 x 0.50	3.4	2.0	35.0	40.9	0.0495	4310

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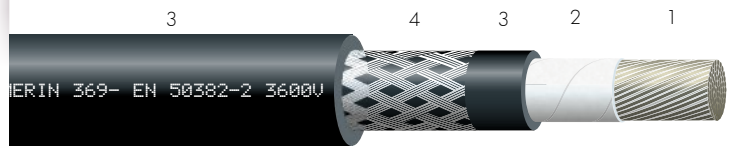
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LES CABLES DE L'EXTREME

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SILICABLE® RW

EN 50382-2 3600V FXZ 120 °C

Unsheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Extra-flexible tin-plated copper core - class 6 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.
- 4 • Synthetic reinforcing braid within the insulation.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +120 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius
(EN 50355): 3xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2, NFPA 130).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > FXZ 120 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Total wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
B2015001	50	703 x 0.30	3.0	15.2	18.6	0.393	610
B2015004	70	999 x 0.30	3.0	16.9	20.6	0.277	820
B2015002	95	1332 x 0.30	3.0	18.3	22.2	0.210	1060
B2015005	120	1739 x 0.30	3.1	20.1	24.3	0.164	1310
B2015006	150	2146 x 0.30	3.1	21.6	26.1	0.132	1610
B2015003	185	2590 x 0.30	3.2	23.4	28.2	0.108	1960

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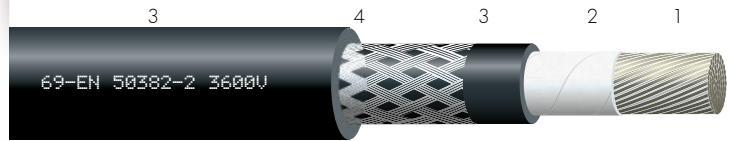
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SILICABLE® RW

EN 50382-2 3600V FXZ 150 °C

Unsheathed cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

- 1 • Extra-flexible tin-plated copper core - class 6 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber with high mechanical properties - type EI 111 as per EN 50382-1.
- 4 • Synthetic reinforcing braid within the insulation.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +150 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★☆
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius
(EN 50355): 3xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > FXZ 150 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Total wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
B2016002	50	703 x 0.30	3.0	15.2	18.6	0.393	610
B2016003	70	999 x 0.30	3.0	16.9	20.6	0.277	820
B2016004	95	1332 x 0.30	3.0	18.3	22.2	0.210	1060
B2016005	120	1739 x 0.30	3.1	20.1	24.3	0.164	1310
B2016001	150	2146 x 0.30	3.1	21.6	26.1	0.132	1610
B2016006	185	2590 x 0.30	3.2	23.4	28.2	0.108	1960

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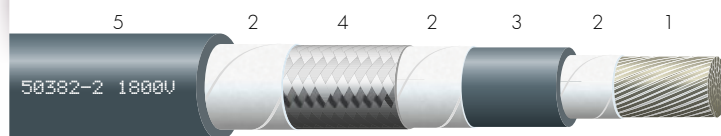
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SILICABLE® RW

EN 50382-2 1800V FF S 120 °C

Sheathed and screened cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +120 °C.

Electrical

Operating voltage: 1.8 / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius
(EN 50355): 10xD.

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire-smoke protection (EN 45545-2).

Options

Temperature 150 °C authorized for CuSn.

- 1 • Flexible tin-plated copper core - class 5 - EN 60228.
- 2 • Separating tape (optional).
- 3 • Silicone rubber insulation with high mechanical properties - type EI 111 as per EN 50382-1.
- 4 • Tin-plated copper braid.
- 5 • Silicone rubber sheath with high mechanical properties - type EM 107 as per EN 50382-1.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 1800V 1x < cross-section > FF S 120 °C - batch number - week/year

Item code	Nominal cross-section (mm²)	Nominal stranding	Nominal insulation thickness (mm)	Insulation diameter (mm)		Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		Mini	Maxi		
A0835012	1.5	30 x 0.25	2.5	4.3	7.4	1.2	8	10.7	13.7	130
A0835013	2.5	50 x 0.25	2.5	4.8	7.9	1.4	8.5	11.7	8.21	160
A0835014	4	56 x 0.30	2.5	5.2	8.5	1.4	8.8	12.4	5.09	190
A0835015	6	84 x 0.30	2.5	5.7	9	1.4	9.3	12.9	3.39	220
A0835006	10	80 x 0.40	2.5	7.3	10.3	1.4	10.9	14.2	1.95	280
A0835009	16	126 x 0.40	2.5	8.4	11.4	1.5	12	15.5	1.24	365
A0835016	25	196 x 0.40	2.5	10	12.9	1.5	13.8	17.2	0.795	500
A0835002	35	276 x 0.40	2.5	11.4	14.4	1.5	15.2	18.7	0.565	635
A0835003	50	396 x 0.40	2.5	12.6	15.6	1.6	16.6	20.2	0.393	790
A0835001	70	360 x 0.50	2.5	14.5	18.1	1.8	18.7	23	0.277	1060
A0835008	95	485 x 0.50	2.7	16.4	20.4	1.8	20.8	25.3	0.210	1330
A0835005	120	608 x 0.50	2.7	18.6	22.1	2.0	23.3	27.6	0.164	1660
A0835007	150	756 x 0.50	2.7	20	24.4	2.2	24.8	30.3	0.132	2010
A0835004	185	944 x 0.50	2.7	22.6	26.1	2.4	27.6	32.6	0.108	2390
A0835017	240	1221 x 0.50	2.7	25	29	2.4	30.1	35.4	0.0817	2975
A0835018	300	1525 x 0.50	2.7	28.3	32.3	2.6	34	39.2	0.0654	3630
A0835019	400	2037 x 0.50	2.9	33.3	36.8	2.8	39.8	44	0.0495	4690

This product is a cable EN 50382-2 1800V F 120 °C screened and sheathed.
It is not described in EN 50382-1 and EN 50382-2 standards.

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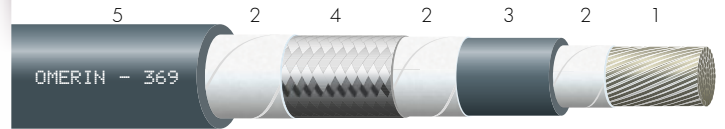
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LES CABLES DE L'EXTREME

SILICABLE® RW

EN 50382-2 3600V FF S 120 °C

Sheathed and screened cable

HIGH TEMPERATURE POWERCABLES
EN 50382-2

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +120 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius
(EN 50355): 10xD.

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > FF S 120 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Insulation diameter (mm)		Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		Mini	Maxi		
A0834017	2.5	50 x 0.25	3	7.6	9	1.4	11.3	13.5	8.21	195
A0834018	4	56 x 0.30	3	8.1	9.6	1.4	11.7	13.4	5.09	220
A0834019	6	84 x 0.30	3	8.6	10.1	1.4	12.3	14	3.39	250
A0834020	10	80 x 0.40	3	9.8	11.3	1.5	13.6	15.4	1.95	320
A0834021	16	126 x 0.40	3	10.8	12.5	1.5	14.6	16.6	1.24	400
A0834022	25	196 x 0.40	3	12.3	14.2	1.5	16.2	18.5	0.795	540
A0834023	35	276 x 0.40	3	13.7	15.2	1.6	17.7	19.7	0.565	660
A0834024	50	396 x 0.40	3	14.9	16.8	1.6	19.1	21.3	0.393	840
A0834025	70	360 x 0.50	3	16.8	19.1	1.8	21.2	24	0.277	1090
A0834026	95	485 x 0.50	3	18	21.1	2	22.6	26.7	0.210	1420
A0834027	120	608 x 0.50	3.1	20.1	22.9	2	25	28.5	0.164	1700
A0834028	150	756 x 0.50	3.1	21.6	25.3	2.4	26.5	31.7	0.132	2085
A0834029	185	944 x 0.50	3.2	24.2	27.3	2.4	29.5	33.7	0.108	2465
A0834030	240	1221 x 0.50	3.4	27.1	30.5	2.6	32.5	37.3	0.0817	3100
A0834031	300	1525 x 0.50	3.4	30.4	33.8	2.6	34.2	40.6	0.0654	3740
A0834032	400	2037 x 0.50	3.4	34.2	37.8	2.8	42.9	45	0.0495	4780

This product is a cable EN 50382-2 3600V 120 °C screened and sheathed.
It is not described in EN 50382-1 and EN 50382-2 standards.

For this product, please contact :

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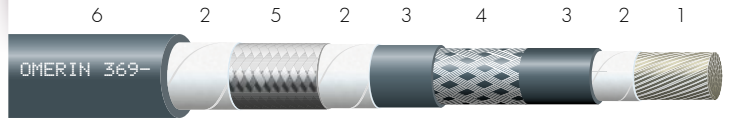
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SILICABLE® RW

EN 50382-2 3600V FFXZ S 120 °C

Sheathed and screened cable



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +120 °C.

Electrical

Operating voltage: 3.6 / 6 kV.
Test voltage: 11 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to alternate bending: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius
(EN 50355): 5xD.

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).

Options

Other cross-sections on request.

Standards and approvals

- EN 60228, EN 50382-1, EN 50382-2.
- EN 60754-1, EN 60754-2.
- EN 60332-1-2, EN 60332-3-24, EN 61034-2.

Marking

OMERIN 369- EN 50382-2 3600V 1x < cross-section > FFXZ S 120 °C - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal insulation thickness (mm)	Insulation diameter (mm)		Nominal sheath thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		Mini	Maxi		
B2024002	50	703 x 0.30	3.0	15.2	18.6	1.6	19.8	21.8	0.393	860
B2024001	70	999 x 0.30	3.0	16.9	20.6	1.8	22.4	24.4	0.277	1120
B2024003	95	1332 x 0.30	3.0	18.3	22.2	2	25.3	27.3	0.210	1470
B2024004	120	1739 x 0.30	3.1	20.1	24.3	2.3	28.5	30.5	0.164	1840
B2024005	150	2146 x 0.30	3.1	21.6	26.1	2.4	29.7	32.2	0.132	2150
B2024006	185	2590 x 0.30	3.2	23.4	28.2	2.4	31.7	34.2	0.108	2540

This product is a cable EN 50382-2 3600V FXZ 120 °C screened and sheathed.
It is not described in EN 50382-1 and EN 50382-2 standards.

For this product, please contact :

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**FIRE RESISTANT POWER CABLES
EN 50264-2-1/-2-2 & EN 50200
EN 50264-3-1/-3-2 & EN 50200**

FT No.	PRODUCT REFERENCE	PAGE
5400	FIRE RESISTANT POWER CABLES – EN 50264-2-1/-2-2 & EN 50200 / EN50264-3-1/-3-2 & EN 50200	53
5401	VARPREN® RW EN 50264-2-1 600V M FR	54
5402	VARPREN® RW EN 50264-2-1 1800V M FR	55
5403	VARPREN® RW EN 50264-2-2 300V MM FR	56
5404	VARPREN® RW EN 50264-2-2 600V MM FR	57
5405	VARPREN® RW EN 50264-2-2 300V MM S FR	58
5406	VARPREN® RW EN 50264-2-2 600V MM S FR	59
5407	VARPREN® RW EN 50264-3-1 600V M FR	60
5408	VARPREN® RW EN 50264-3-1 1800V M FR	61
5409	VARPREN® RW EN 50264-3-2 300V MM FR	62
5410	VARPREN® RW EN 50264-3-2 600V MM FR	63
5411	VARPREN® RW EN 50264-3-2 300V MM S FR	64
5412	VARPREN® RW EN 50264-3-2 600V MM S FR	65

CABLE SOLUTIONS
FOR ROLLING STOCK

FIRE RESISTANT POWER CABLES

EN 50264-2-1/-2-2 & EN 50200

EN 50264-3-1/-3-2 & EN 50200

FT No.	OMERIN reference	Single or multicore type	Core insulation type	Core insulation thickness		Screened by a tin-plated copper braid	Outer sheath type	Operating temperature (°C)	Operating voltage (V)	IRM902 Mineral Oil Resistant	IRM 903 Fuel Resistant	Halogen-free Low Smoke	Application
				Medium	Standard								
5401	VARPREN RW EN 50264-2-1 600V M FR	Single core	Mica tape + EI 104		✓			90	600	✓	✓	✓	Fire resistant power cables used inboards safety circuits, lighting circuits, auxiliary circuits.
5402	VARPREN RW EN 50264-2-1 1800V M FR	Single core	Mica tape + EI 104		✓			90	1800	✓	✓	✓	Fire resistant power cables used inboards safety circuits, lighting circuits, auxiliary circuits.
5403	VARPREN RW EN 50264-2-2 300V MM FR	Multicore	Mica tape + EI 104		✓		EM 104	90	300	✓	✓	✓	Fire resistant power cables used inboards safety circuits, lighting circuits, auxiliary circuits.
5404	VARPREN RW EN 50264-2-2 600V MM FR	Multicore	Mica tape + EI 104		✓		EM 104	90	600	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5405	VARPREN RW EN 50264-2-2 300V MM S FR	Multicore	Mica tape + EI 104		✓	✓	EM 104	90	300	✓	✓	✓	Fire resistant power cables used inboards safety circuits, lighting circuits, auxiliary circuits with a tin-plated copper braid screen.
5406	VARPREN RW EN 50264-2-2 600V MM S FR	Multicore	Mica tape + EI 104		✓	✓	EM 104	90	600	✓	✓	✓	Fire resistant power cables used inboards safety circuits, lighting circuits, auxiliary circuits with a tin-plated copper braid screen.
5407	VARPREN RW EN 50264-3-1 600V M FR	Single core	Mica tape + EI 109	✓				90	600	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5408	VARPREN RW EN 50264-3-1 1800V M FR	Single core	Mica tape + EI 109	✓		✓		90	1800	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5409	VARPREN RW EN 50264-3-2 300V MM FR	Multicore	Mica tape + EI 109	✓			EM 104	90	300	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5410	VARPREN RW EN 50264-3-2 600V MM FR	Multicore	Mica tape + EI 109	✓	✓		EM 104	90	600	✓	✓	✓	Power cables with special fire performance used in medium voltage circuits.
5411	VARPREN RW EN 50264-3-2 300V MM S FR	Multicore	Mica tape + EI 109	✓	✓	✓	EM 104	90	300	✓	✓	✓	Fire resistant power cables used inboards safety circuits, lighting circuits, auxiliary circuits with a tin-plated copper braid screen.
5412	VARPREN RW EN 50264-3-2 600V M S FR	Multicore	Mica tape + EI 109	✓		✓	EM 104	90	600	✓	✓	✓	Fire resistant power cables used inboards safety circuits, lighting circuits, auxiliary circuits, with a tin-plated copper braid screen.

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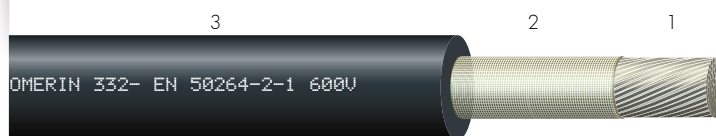
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VARPREN® RW

EN 50264-2-1 600V M FR

Unsheathed cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections on request.

Marking

OMERIN 332- EN 50264-2-1 600V < cross-section > M - FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
379M0102	1	32 x 0.20	0.8	3.2	3.6	20.0	21
379M0202	1.5	30 x 0.25	0.8	3.4	3.9	13.7	27
379M0302	2.5	50 x 0.25	0.8	3.8	4.3	8.21	38
379M0402	4	56 x 0.30	0.8	4.3	5.0	5.09	51
379M0502	6	84 x 0.30	0.9	5.1	5.9	3.39	77
379M0602	10	80 x 0.40	1.1	6.7	7.7	1.95	127
379M0702	16	126 x 0.40	1.1	7.6	8.9	1.24	186
379M0802	25	196 x 0.40	1.3	9.5	10.9	0.795	283
379M0902	35	276 x 0.40	1.3	10.8	12.1	0.565	379
379M1002	50	396 x 0.40	1.5	12.3	14.2	0.393	518
379M1102	70	360 x 0.50	1.5	13.9	16.1	0.277	705
379M1202	95	485 x 0.50	1.6	15.6	18.1	0.210	909
379M1302	120	608 x 0.50	1.6	17.4	20.2	0.164	1142
379M1402	150	756 x 0.50	1.9	19.7	22.9	0.132	1456
379M1502	185	944 x 0.50	1.9	21.4	24.9	0.108	1767
379M1602	240	1221 x 0.50	2.1	24.3	28.2	0.0817	2337

This product is a cable EN 50264-3-1 600V M with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-2-1 standards.

For this product, please contact :

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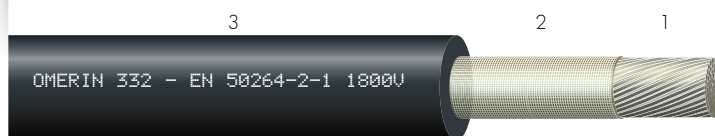
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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-2-1 1800V M FR

Unsheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Fire resistant elastomer - type EI 104 as per EN 50264-2-1.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C

Electrical

Operating voltage: 1.8 / 3 kV
Test voltage: 6.5 kV A.C

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1)
Low toxicity (EN 60754-2)
Low smoke (EN 61034-2)
Flame retardant (EN 60332-1-2, EN 60332-3-24)
Fire resistance (EN 50200 or EN 50362)

Options

Other cross-sections on request

Marking

OMERIN 332 - EN 50264-2-1 1800V < cross-section > M FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
379N0202	1.5	30 x 0.25	2.5	6.5	7.6	13.7	70
379N0302	2.5	50 x 0.25	2.5	6.9	8.1	8.21	84
379N0402	4	56 x 0.30	2.5	7.4	8.6	5.09	102
379N0502	6	84 x 0.30	2.5	8.0	9.3	3.39	130
379N0602	10	80 x 0.40	2.5	9.2	10.3	1.95	184
379N0702	16	126 x 0.40	2.5	10.3	11.9	1.24	250
379N0802	25	196 x 0.40	2.5	11.6	13.5	0.795	348
379N0902	35	276 x 0.40	2.5	12.8	14.9	0.565	451
379N1002	50	396 x 0.40	2.5	14.1	16.4	0.393	585
379N1102	70	360 x 0.50	2.5	15.7	18.3	0.277	780
379N1202	95	485 x 0.50	2.7	17.6	20.5	0.210	1002
379N1302	120	608 x 0.50	2.7	19.4	22.6	0.164	1245
379N1402	150	756 x 0.50	2.7	21.2	24.6	0.132	1539
379N1502	185	944 x 0.50	2.7	22.9	26.6	0.108	1858
379N0102	240	1221 x 0.50	2.7	24.9	30.0	0.0817	2413

This product is a cable EN 50264-3-1 1800V M with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-2-1 standards.

For this product, please contact :

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VARPREN® RW

EN 50264-2-2 300V MM FR

Sheathed cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Black fire resistant elastomer - type EI 104 as per EN 50264-2-2.
- 4 • Separating tape (optional).
- 5 • Fire resistant elastomer - type EM 104 as per EN 50264-2-2.

Marking

OMERIN 332- EN 50264-2-2 300V < cross-section > MM - FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
379C0102	2 x 1	0.6	2.8	1.4	8.3	9.6	90
379C0202	4 x 1	0.6	2.8	1.4	9.5	10.9	132
379C0302	7 x 1	0.6	2.8	1.4	11.0	12.6	194
379C0402	9 x 1	0.6	2.8	1.4	13.1	15.0	244
379C0502	12 x 1	0.6	2.8	1.4	14.0	16.1	301
379C0602	19 x 1	0.6	2.8	1.4	16.4	18.5	434
379C0702	24 x 1	0.6	2.8	1.5	19.0	21.9	547
379C0802	32 x 1	0.6	2.8	1.6	21.0	24.2	705
379C0902	37 x 1	0.6	2.8	1.6	21.9	25.1	794
379C1002	4 x 1.5	0.7	3.3	1.4	10.5	12.1	169
379C1102	7 x 1.5	0.7	3.3	1.4	12.3	14.2	254
379C1202	9 x 1.5	0.7	3.3	1.4	14.8	17.0	321
379C1302	12 x 1.5	0.7	3.3	1.4	15.9	18.3	400
379C1402	19 x 1.5	0.7	3.3	1.5	18.6	21.5	594
379C1502	4 x 2.5	0.8	3.9	1.4	11.9	13.7	230
379C1602	7 x 2.5	0.8	3.9	1.4	14.0	16.2	356
379C1702	9 x 2.5	0.8	3.9	1.5	17.1	19.8	461
379C1802	12 x 2.5	0.8	3.9	1.5	18.5	21.4	580
379C1902	19 x 2.5	0.8	3.9	1.6	21.7	25.1	868

This product is a cable EN 50264-2-2 300V MM with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-2-2 standards.

For this product, please contact :

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CABLE SOLUTIONS
FOR ROLLING STOCK

VARPREN® RW

EN 50264-2-2 600V MM FR

Sheathed cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.

Marking

OMERIN 332- EN 50264-2-2 600V < cross-section > MM FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
379D0102	2 x 1.5	0.8	3.7	1.4	10.1	11.5	124
379D0202	3 x 1.5	0.8	3.7	1.4	10.5	12.1	156
379D0302	4 x 1.5	0.8	3.7	1.4	11.5	13.1	189
379D0402	2 x 2.5	0.8	4.1	1.4	10.8	12.4	153
379D0502	3 x 2.5	0.8	4.1	1.4	11.4	13.1	196
379D0602	4 x 2.5	0.8	4.1	1.4	12.4	14.2	242
379D0702	2 x 4	0.8	4.7	1.4	11.9	13.7	189
379D0802	3 x 4	0.8	4.7	1.4	12.6	14.5	246
379D0902	4 x 4	0.8	4.7	1.4	13.6	15.7	306
379D1002	2 x 6	0.9	5.5	1.4	13.3	15.4	253
379D1102	3 x 6	0.9	5.5	1.4	14.2	16.3	336
379D1202	4 x 6	0.9	5.5	1.4	15.4	17.8	424
379D1302	2 x 10	1.1	7.2	1.4	16.6	19.0	380
379D1402	3 x 10	1.1	7.2	1.5	17.8	20.4	525
379D1502	4 x 10	1.1	7.2	1.5	19.5	22.4	667
379D1602	2 x 16	1.1	8.3	1.5	18.7	21.6	524
379D1702	3 x 16	1.1	8.3	1.6	20.2	23.2	731
379D1802	4 x 16	1.1	8.3	1.6	22.1	25.4	934
379D1902	2 x 25	1.3	10.2	1.6	22.5	25.9	761
379D2002	3 x 25	1.3	10.2	1.7	24.1	27.8	1071
379D2102	4 x 25	1.3	10.2	1.8	26.7	30.8	1391
379D2202	2 x 35	1.3	11.5	1.7	25.2	29.1	1001
379D2302	3 x 35	1.3	11.5	1.8	26.9	31.1	1397
379D2402	2 x 50	1.5	13.3	1.9	28.7	33.2	1328
379D2502	3 x 50	1.5	13.3	1.9	30.5	35.6	1868

This product is a cable EN 50264-3-1 600V MM with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-22 standards.

For this product, please contact :

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VARPREN® RW

EN 50264-2-2 300V MM S FR

Sheathed and screened cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.

Marking

OMERIN 332- EN 50264-2-2 300V < cross-section > MM S FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
379G0102	2 x 1	0.6	2.8	1.4	8.9	10.3	121
379G0202	4 x 1	0.6	2.8	1.4	10.0	11.6	168
379G0302	7 x 1	0.6	2.8	1.4	11.6	13.4	244
379G0402	9 x 1	0.6	2.8	1.4	13.7	15.8	306
379G0502	12 x 1	0.6	2.8	1.4	14.8	17.1	391
379G0602	19 x 1	0.6	2.8	1.5	17.2	19.9	549
379G0702	24 x 1	0.6	2.8	1.6	20.0	23.1	684
379G0802	32 x 1	0.6	2.8	1.6	22.0	25.4	881
379G0902	37 x 1	0.6	2.8	1.7	23.0	26.5	989
379G1002	4 x 1.5	0.7	3.3	1.4	11.2	12.9	217
379G1102	7 x 1.5	0.7	3.3	1.4	12.9	15.0	312
379G1202	9 x 1.5	0.7	3.3	1.4	15.6	18.0	417
379G1302	12 x 1.5	0.7	3.3	1.5	16.8	19.5	513
379G1402	19 x 1.5	0.7	3.3	1.5	19.5	22.5	718
379G1502	4 x 2.5	0.8	3.9	1.4	12.5	14.6	286
379G1602	7 x 2.5	0.8	3.9	1.4	14.8	17.2	446
379G1702	9 x 2.5	0.8	3.9	1.5	17.9	20.8	574
379G1802	12 x 2.5	0.8	3.9	1.5	19.3	22.4	703
379G1902	19 x 2.5	0.8	3.9	1.6	22.8	26.3	1051

This product is a cable EN 50264-2-2 300V MM with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-2-2 standards.

For this product, please contact :

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VARPREN® RW

EN 50264-2-2 600V MM S FR

Sheathed and screened cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other sections or constructions on request.



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Black fire resistant elastomer - type EI 104 as per EN 50264-2-2.
- 4 • Separating tape (optional).
- 5 • Tin-plated copper braid.
- 6 • Fire resistant elastomer - type EM 104 as per EN 50264-2-2.

Marking

OMERIN 332- EN 50264-2-2 600V < cross-section > MM S FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
379H0102	2 x 1.5	0.8	3.7	1.4	10.6	12.2	163
379H0202	3 x 1.5	0.8	3.7	1.4	11.2	12.8	204
379H0302	4 x 1.5	0.8	3.7	1.4	12.1	13.9	242
379H0402	2 x 2.5	0.8	4.1	1.4	11.5	13.2	203
379H0502	3 x 2.5	0.8	4.1	1.4	12.1	13.9	249
379H0602	4 x 2.5	0.8	4.1	1.4	13.0	15.1	300
379H0702	2 x 4	0.8	4.7	1.4	12.5	14.4	244
379H0802	3 x 4	0.8	4.7	1.4	13.2	15.3	305
379H0902	4 x 4	0.8	4.7	1.4	14.3	16.5	372
379H1002	2 x 6	0.9	5.5	1.4	14.0	16.2	317
379H1102	3 x 6	0.9	5.5	1.4	14.7	17.1	405
379H1202	4 x 6	0.9	5.5	1.4	16.3	18.8	525
379H1302	2 x 10	1.1	7.2	1.5	17.5	20.2	498
379H1402	3 x 10	1.1	7.2	1.5	18.6	21.5	642
379H1502	4 x 10	1.1	7.2	1.6	20.4	23.6	807
379H1602	2 x 16	1.1	8.3	1.5	19.6	22.6	648
379H1702	3 x 16	1.1	8.3	1.6	21.0	24.2	865
379H1802	4 x 16	1.1	8.3	1.7	23.3	26.8	1132
379H1902	2 x 25	1.3	10.2	1.7	23.6	27.3	963
379H2002	3 x 25	1.3	10.2	1.7	25.1	29.0	1275
379H2102	4 x 25	1.3	10.2	1.8	27.7	32.0	1618
379H2202	2 x 35	1.3	11.5	1.8	26.2	30.4	1214
379H2302	3 x 35	1.3	11.5	1.8	27.8	32.3	1627
379H2402	2 x 50	1.5	13.3	1.9	29.7	34.5	1574
379H2502	3 x 50	1.5	13.3	2.0	31.8	36.9	2148

This product is a cable EN 50264-2-2 600V MM S with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-2-2 standards.

For this product, please contact :

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CABLE SOLUTIONS
FOR ROLLING STOCK**VARPREN® RW**
EN 50264-3-1 600V M FR
Unsheathed cableFIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200

- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-1.

Characteristics**Thermal**

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.

Marking

OMERIN 332- EN 50264-3-1 600V < cross-section > M FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
379E0102	0.5	16 x 0.20	0.6	2.6	2.9	40.1	11
379E1802	0.75	24 x 0.20	0.6	2.8	3.1	26.7	13
379E0302	1	32 x 0.20	0.6	2.9	3.3	20	18
379E0402	1.5	30 x 0.25	0.7	3.4	3.8	13.7	25
379E0502	2.5	50 x 0.25	0.7	3.7	4.2	8.21	36
379E0602	4	56 x 0.30	0.7	4.3	4.9	5.09	49
379E0702	6	84 x 0.30	0.7	4.8	5.6	3.39	72
379E0802	10	80 x 0.40	0.7	6.1	6.9	1.95	114
379E0902	16	126 x 0.40	0.7	7.1	8.2	1.24	171
379E1002	25	196 x 0.40	0.9	8.9	10.2	0.795	265
379E1102	35	276 x 0.40	0.9	10.1	11.7	0.565	35
379E1202	50	396 x 0.40	1.0	11.6	13.4	0.393	488
379E1302	70	360 x 0.50	1.1	13.3	15.4	0.277	677
379E1402	95	485 x 0.50	1.1	14.9	17.3	0.210	870
379E1502	120	608 x 0.50	1.2	16.8	19.5	0.164	1107
379E1602	150	756 x 0.50	1.4	19.1	22.1	0.132	1407
379E1902	185	944 x 0.50	1.6	21.2	24.5	0.108	1735
379E2002	240	1221 x 0.50	1.7	23.9	27.7	0.0817	2288

This product is a cable EN 50264-3-1 600 V M with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-3-1 standards.

For this product, please contact :

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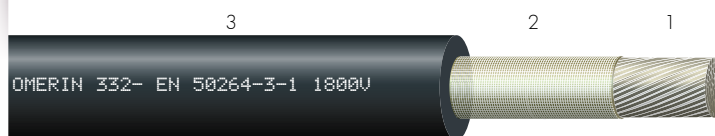
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CABLE SOLUTIONS
FOR ROLLING STOCKFIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200**VARPREN® RW**
EN 50264-3-1 1800V M FR
Unsheathed cable

- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Fire resistant elastomer - type EI 109 as per EN 50264-3-1.

Characteristics**Thermal**

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 1.8 kV / 3 kV.
Test voltage: 6.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections on request.

Marking

OMERIN 332- EN 50264-3-1 1800V < cross-section > M FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal stranding	Nominal wall thickness (mm)	Cable outer diameter (mm)		Maximum linear resistance at 20 °C (Ω/km)	Approx. linear weight (kg/km)
				Mini	Maxi		
379F0102	1.5	30 x 0.25	2	5.6	6.5	13.7	54
379F0202	2.5	50 x 0.25	2	6.0	7.0	8.21	67
379F0302	4	56 x 0.30	2	6.5	7.6	5.09	84
379F0402	6	84 x 0.30	2	7.1	8.3	3.39	111
379F0502	10	80 x 0.40	2	8.3	9.6	1.95	162
379F0602	16	126 x 0.40	2	9.4	10.8	1.24	225
379F0702	25	196 x 0.40	2	10.7	12.4	0.795	319
379F0802	35	276 x 0.40	2	11.9	13.8	0.565	419
379F0902	50	396 x 0.40	2	13.2	15.3	0.393	551
379F1002	70	360 x 0.50	2	14.8	17.2	0.277	741
379F1102	95	485 x 0.50	2.2	16.7	19.4	0.210	958
379F1202	120	608 x 0.50	2.2	18.5	21.5	0.164	1197
379F1302	150	756 x 0.50	2.2	20.7	23.9	0.132	1507
379F1402	185	944 x 0.50	2.4	22.4	25.9	0.108	1823
379F1502	240	1221 x 0.50	2.4	25.0	28.8	0.0817	2374

This product is a cable EN 50264-3-1 1800 V M with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-3-1 standards.

For this product, please contact :

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VARPREN® RW

EN 50264-3-2 300V MM FR

Sheathed cable



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Black fire resistant elastomer - type EI 109 as per EN 50264-3-2.
- 4 • Separating tape (optional).
- 5 • Fire resistant elastomer - type EM 104 as per EN 50264-3-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.

Marking

OMERIN 332- EN 50264-3-2 300V < cross-section > MM FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
379J0302	2 x 1	0.4	2.4	0.6	6.1	7.0	51
379J0402	4 x 1	0.4	2.4	0.6	7.0	8.1	83
379J0502	7 x 1	0.4	2.4	0.7	8.6	9.8	134
379J0602	9 x 1	0.4	2.4	0.7	10.4	11.9	171
379J0702	12 x 1	0.4	2.4	0.7	11.4	13.1	222
379J0802	19 x 1	0.4	2.4	0.8	13.3	15.3	329
379J0902	24 x 1	0.4	2.4	1.0	15.9	18.3	426
379J1002	32 x 1	0.4	2.4	1.0	17.4	20.1	547
379J1102	37 x 1	0.4	2.4	1.0	18.1	20.9	621
379J0102	4 x 1.5	0.5	2.9	0.7	8.3	9.6	118
379J1202	7 x 1.5	0.5	2.9	0.7	9.9	11.4	186
379J1302	9 x 1.5	0.5	2.9	0.8	12.3	14.1	244
379J1402	12 x 1.5	0.5	2.9	0.8	13.2	15.2	310
379J1502	19 x 1.5	0.5	2.9	1.0	15.9	18.3	481
379J1602	4 x 2.5	0.5	3.3	0.7	9.2	10.7	163
379J1702	7 x 2.5	0.5	3.3	0.8	11.3	13.0	270
379J1802	9 x 2.5	0.5	3.3	1.0	14.1	16.3	358
379J1902	12 x 2.5	0.5	3.3	1.0	15.2	17.6	457
379J2002	19 x 2.5	0.5	3.3	1.0	17.8	20.6	689

This product is a cable EN 50264-3-2 300 V MM with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-3-2 standards.

For this product, please contact :

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LES CABLES DE L'EXTREME

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CABLE SOLUTIONS
FOR ROLLING STOCK

VARPREN® RW

EN 50264-3-2 600V MM FR

Sheathed cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200

- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Black fire resistant elastomer - type EI 109 as per EN 50264-3-2.
- 4 • Separating tape (optional).
- 5 • Fire resistant elastomer - type EM 104 as per EN 50264-3-2.

Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.

Marking

OMERIN 332 - EN 50264-3-2 600V < cross-section > MM FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
379L0102	2 x 1.5	0.7	3.5	0.7	8.0	9.8	84
379L0202	3 x 1.5	0.7	3.5	0.7	8.5	10.3	111
379L0302	4 x 1.5	0.7	3.5	0.7	9.3	11.3	140
379L0402	2 x 2.5	0.7	3.9	0.7	8.7	10.7	109
379L0502	3 x 2.5	0.7	3.9	0.7	9.3	11.3	148
379L0602	4 x 2.5	0.7	3.9	0.7	10.2	12.4	188
379L0702	2 x 4	0.7	4.5	0.7	9.8	12.0	140
379L0802	3 x 4	0.7	4.5	0.7	10.4	12.7	192
379L0902	4 x 4	0.7	4.5	0.8	11.5	14.0	246
379L1002	2 x 6	0.7	5.1	0.8	11.1	13.4	197
379L1102	3 x 6	0.7	5.1	0.8	11.8	14.3	272
379L1202	4 x 6	0.7	5.1	1.0	13.0	15.7	350
379L1302	2 x 10	0.7	6.4	1.0	13.8	16.7	308
379L1402	3 x 10	0.7	6.4	1.0	14.7	17.9	429
379L1502	4 x 10	0.7	6.4	1.0	16.1	19.6	552
379L1602	2 x 16	0.7	7.5	1.0	15.7	19.2	434
379L1702	3 x 16	0.7	7.5	1.0	16.9	20.5	612
379L1802	4 x 16	0.7	7.5	1.2	18.5	22.6	793
379L1902	2 x 25	0.9	9.4	1.2	19.5	23.8	663
379L2002	3 x 25	0.9	9.4	1.2	20.8	25.5	938
379L2102	4 x 25	0.9	9.4	1.4	23.0	28.0	1218
379L2202	2 x 35	0.9	10.7	1.2	21.9	26.6	867
379L2302	3 x 35	0.9	10.7	1.2	23.4	28.6	1236
379L2402	2 x 50	1.0	12.3	1.4	25.1	30.7	1174
379L2502	3 x 50	1.0	12.3	1.4	26.9	32.8	1677

This product is a cable EN 50264-3-2 600 V MM with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-3-2 standards.

For this product, please contact :

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LES CABLES DE L'EXTREME

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VARPREN® RW

EN 50264-3-2 300V MM S FR

Sheathed and screened cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 300 / 500 V.
Test voltage: 2 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.



- 1 • Tin-plated copper core - class 5 - EN 60228.
- 2 • Mica tape.
- 3 • Black fire resistant elastomer - type EI 109 as per EN 50264-3-2.
- 4 • Separating tape (optional).
- 5 • Tin-plated copper braid.
- 6 • Fire resistant elastomer - type EM 104 as per EN 50264-3-2.

Marking

OMERIN 332- TYPE EN 50264-3-2 300V < cross-section > MM S FR - EN 50200 PH120 -
batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
37910102	2 x 0.5	0.35	2.05	0.7	6.1	7.1	61
37912002	3 x 0.5	0.35	2.05	0.7	6.4	7.4	68
37911202	4 x 0.5	0.35	2.05	0.7	7.1	8.1	83
37911102	6 x 0.5	0.35	2.05	0.8	8.2	9.2	110
37911902	1 x 0.75	0.35	2.2	0.7	4.0	5.0	36
37910602	2 x 0.75	0.35	2.2	0.7	6.5	7.5	74
37911502	4 x 0.75	0.35	2.2	0.7	6.8	7.8	85
37910302	1 x 1	0.4	2.7	0.8	4.5	5.5	43
37910202	2 x 1	0.4	2.7	0.85	7.4	8.4	75
37911602	3 x 1	0.4	2.7	0.85	7.8	8.8	100
37911002	4 x 1	0.4	2.7	0.9	8.6	9.6	115
37911402	6 x 1	0.4	2.7	0.9	9.9	11.3	178
37912402	7 x 1	0.4	2.7	0.9	9.9	11.3	178
37912102	8 x 1	0.4	2.7	0.9	11.8	13.2	220
37912502	9 x 1	0.4	2.7	1.0	12.6	14.2	243
37912602	12 x 1	0.4	2.7	1.0	13.0	14.8	294
37912702	19 x 1	0.4	2.7	1.2	15.6	17.8	430
37912802	24 x 1	0.4	2.7	1.2	18.2	20.8	560
37912902	32 x 1	0.4	2.7	1.2	20.5	23.3	710
37913002	37 x 1	0.4	2.7	1.2	21.3	24.1	800
37910702	1 x 1.5	0.5	2.9	0.8	5.0	6.0	52
37910402	2 x 1.5	0.5	2.9	0.8	8.0	9.0	112
37911302	3 x 1.5	0.5	2.9	0.8	8.4	9.4	124
37911702	4 x 1.5	0.5	2.9	0.9	8.8	10.2	151
37910802	6 x 1.5	0.5	2.9	0.9	10.4	12.1	233
37913102	7 x 1.5	0.5	2.9	0.9	10.4	12.1	233
37910902	8 x 1.5	0.5	2.9	1.0	12.9	14.3	306
37913202	9 x 1.5	0.5	2.9	1.0	13.1	15.2	316
37913302	12 x 1.5	0.5	2.9	1.0	14.1	16.7	411
37913402	19 x 1.5	0.5	2.9	1.0	16.3	19.4	585
37910502	1 x 2.5	0.5	3.3	0.8	5.3	6.3	60
37911802	2 x 2.5	0.5	3.3	0.8	8.8	9.8	140
37913502	4 x 2.5	0.5	3.3	0.8	9.8	11.4	207
37913602	7 x 2.5	0.5	3.3	0.8	11.8	13.7	323
37913702	9 x 2.5	0.5	3.3	1.0	14.8	17.2	450
37913802	12 x 2.5	0.5	3.3	1.0	16.0	18.5	557
37913902	19 x 2.5	0.5	3.3	1.2	18.9	21.9	826

For this product, please contact :

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This product is a cable EN 50264-3-2 300 V MM S with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-3-2 standards.

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VARPREN® RW

EN 50264-3-2 600V MM S FR

Sheathed and screened cable

FIRE RESISTANT POWERCABLES
EN 50264-2 & EN 50200 / EN 50264-3 & EN 50200



Characteristics

Thermal

Continuous operating temperature:
-40 °C to +90 °C.

Electrical

Operating voltage: 0.6 / 1 kV.
Test voltage: 3.5 kV A.C.

Mechanical

Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★
Minimum static internal bending radius:
as per EN 50355 (Table 16)
and EN 50343 (Table 4)

Chemical

Acid and base resistance: ★★★★★
Mineral oil resistance: ★★★★★
Fuel resistance only for class M: ★★★★★

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2, EN 60332-3-24).
Fire resistance (EN 50200 or EN 50362).

Options

Other cross-sections or constructions on request.

Marking

OMERIN 332 - EN 50264-3-2 600V < cross-section > MM S FR - EN 50200 PH120 - batch number - week/year

Item code	Nominal cross-section (mm ²)	Nominal insulation thickness (mm)	Nominal conductor diameter (mm)	Nominal sheath thickness (mm)	Cable outer diameter (mm)		Approx. linear weight (kg/km)
					Mini	Maxi	
379S0102	2 x 1.5	0.7	3.5	0.7	8.5	10.5	119
379S0202	3 x 1.5	0.7	3.5	0.7	9.0	11.0	149
379S0302	4 x 1.5	0.7	3.5	0.7	9.9	12.1	188
379S0402	2 x 2.5	0.7	3.9	0.7	9.4	11.3	148
379S0502	3 x 2.5	0.7	3.9	0.7	9.9	12.1	196
379S0602	4 x 2.5	0.7	3.9	0.8	11.0	13.5	247
379S0702	2 x 4	0.7	4.5	0.8	10.5	13.0	197
379S0802	3 x 4	0.7	4.5	0.8	11.2	13.7	253
379S0902	4 x 4	0.7	4.5	0.8	12.3	15.0	313
379S1002	2 x 6	0.7	5.1	0.8	11.6	14.3	254
379S1102	3 x 6	0.7	5.1	0.8	12.4	15.1	334
379S1202	4 x 6	0.7	5.1	1.0	14.1	17.1	456
379S1302	2 x 10	0.7	6.4	1.0	14.6	17.8	404
379S1402	3 x 10	0.7	6.4	1.0	15.4	19.0	532
379S1502	4 x 10	0.7	6.4	1.0	17.0	20.6	666
379S1602	2 x 16	0.7	7.5	1.0	16.5	20.3	545
379S1702	3 x 16	0.7	7.5	1.2	18.0	21.9	750
379S1802	4 x 16	0.7	7.5	1.2	19.7	24.0	946
379S1902	2 x 25	0.9	9.4	1.2	20.2	25.0	802
379S2002	3 x 25	0.9	9.4	1.2	21.7	26.5	1087
379S2102	4 x 25	0.9	9.4	1.4	24.4	29.7	1450
379S2202	2 x 35	0.9	10.7	1.4	23.2	28.3	1087
379S2302	3 x 35	0.9	10.7	1.4	24.8	30.1	1473
379S2402	2 x 50	1.0	12.3	1.4	26.0	31.9	1399
379S2502	3 x 50	1.0	12.3	1.6	28.2	34.5	1948

This product is a cable EN 50264-3-2 600 V MMS with a mica tape on the core.
It is not described in EN 50264-1 and EN 50264-3-2 standards..

For this product, please contact :

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DATA & COMMUNICATION CABLES

FT No.	PRODUCT REFERENCE	PAGE
5600	DATA & COMMUNICATION CABLES	67
5602	DATARAIL® 100BE85EM101 4x0.5	68

CABLE SOLUTIONS
FOR ROLLING STOCK

DATARAIL[®]
DATA & COMMUNICATION CABLES

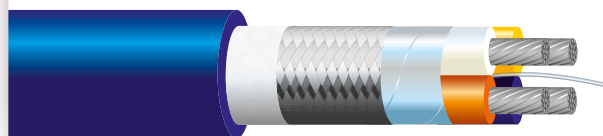
FT No.	OMERIN reference	Single or multicore type	Core insulation thickness	Core insulation type	Screened by a tin-plated copper braid	Outer sheath type	Operating temperature (°C)	Nominal impedance from 1 to 100 MHz (Ω)	IRM902 Mineral Oil Resistant	IRM 903 Fuel Resistant	Halogen-free Low Smoke	Application
5602	DATARAIL 100BE85EM101 4 x 0.5	Multicore	Single core	Polyolefin	✓	EM101	85°C	100	✓	✓	✓	ETHERNET LINK

DATARAIL®

100BE85EM101

4x0.5 mm²

Sheathed cable



Characteristics

Thermal

Continuous operating temperature:
-25 °C to +85 °C.

Electrical

Operating voltage: 300 V.
Test voltage: 2 kV A.C.

Nominal impedance from 1 to 100 MHz: 100 Ω.
Mutual capacitance: ≤ 55 pF/m.
Capacitance unbalance pair to ground: ≤ 1600 pF/km.
Nominal velocity ratio: 70 %.
Transfer impedance from 100 KHz to 30 MHz: ≤ 10 mΩ/m.
from 30 to 100 MHz: ≤ 50 mΩ/m.
Insulation resistance at 20 °C: ≥ 150 MΩ.km.
Linear resistance at 20 °C: ≤ 40.1 Ω/km.

Mechanical

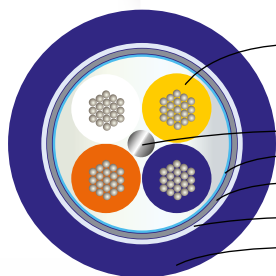
Cut-through resistance: ★★★★★
Resistance to abrasion: ★★★★★☆
Minimum static internal bending radius: 8xD.

Chemical

Acid and base resistance: ★★★★★☆
Mineral oil resistance: ★★★★★☆
Fuel resistance only for class M: ★★★★★☆

Fire-smoke

Halogen-free (EN 60754-1).
Low toxicity (EN 60754-2).
Low smoke (EN 61034-2).
Flame retardant (EN 60332-1-2).
Fire smoke protection: EN45545-2.



- 1 • Twisted quad (4x0.5 mm²)
> Conductor : Tin-plated copper core (19/0.18 mm)
Class 5 - EN 60228
> Insulation : Polyolefin
- 2 • Optional filler
- 3 • PET and ALU/PET tapes
- 4 • General electrical shielding (tin-plated copper braid)
- 5 • Fire-retardant tape
- 6 • Fire resistant elastomer EM101 according to EN 50264-1

Marking

DTREN 150002 - 300V - 4x0.5mm² C S - QUADRAX 100 OHMS - OMERIN 369 - batch number - week/year

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Max. Insertion Loss (dB/100 m)	3.2	6	9.5	12.1	13.6	17.1	24.8	32
Min. PS NEXT (dB)	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3
Min. Return Loss (dB)	-	23	25	25	25	23.3	20.7	19
Min. EL FEXT (dB)	61	49	41	36.9	35	31.1	25.1	21

Core number	Nominal cross-section (mm ²)	Nominal conductor diameter (mm)	Nominal cable outer diameter (mm)	Approx. linear weight (kg/km)
4	0.5	1.95	8.5	40.1

For this product, please contact :

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