

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).
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 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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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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