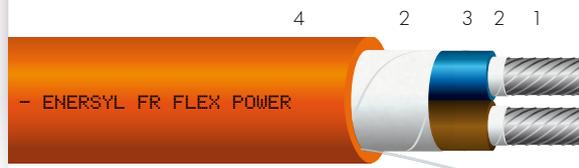


# ENERSYL® FR FLEX POWER B2ca

## Multicore power cables



- 1 • Tin-plated copper core, class 5 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: silicone rubber as per NF C 32-090 + optional filler(s).
- 4 • Outer sheath: HFFR, type ST8 as per IEC 60502-1.

### Reference

- (example) ENERSYL® FR FLEX POWER 2x4 mm<sup>2</sup>  
FR : fire resistant  
FLEX: flexible tin-plated copper core, class 5 as per IEC 60228.  
POWER: power cable  
2: number of conductors  
X, G: type of assembly: without (X) or with (G) an earth wire  
4 mm<sup>2</sup>: cross-section in mm<sup>2</sup>

### Approvals - standards

- Euroclasse B2ca s1, d1, a1
- IEC 60228 / NF C 32-090.
  - NF C 32-070 test C1.
  - NF EN 50200.

### Markings

- OMERIN – ENERSYL < FR FLEX POWER >  
< cross-section > – 600/1000V – < batch > – < year >

### Standard products

- Sheath: orange.
- Colour identification of conductors:  
< up to 5 conductors: as per HD 308 S2.  
> more than 5 conductors: white numbered.

### Technical characteristics

#### Thermal

- Continuous operating temperature: -30°C to +80°C.
- Maximum core temperature: +90 °C.

#### Electrical

- Rated voltage: 600/1000 V.
- Test voltage: 3500 V.

#### Smoke - fire

- Flame retardant – bunched cable:  
IEC 60332-3-22 cat. A / NF EN 60332-3-22 cat. A.
- Fire retardant: NF C 32-070 test C1.
- Fire resistant: NF EN 50200.

#### Resistance of outer sheath to chemical attacks as per OMERIN test report NT140220-01:

- Good resistance to acid.
- Good resistance to base.
- Fairly good resistance to aliphatic hydrocarbons.
- Resistance to water: type AD7 as per IEC 60529 without immersion of ends.
- Resistance to UV ≥ 2000 hours as per EN 16472.

### Options

- Other colours: contact us.

For this product, please contact:

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**omerin**  
LES CABLES DE L'EXTREME

[www.omerin.com](http://www.omerin.com)

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.  
For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.  
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Nominal cross-section (mm <sup>2</sup> )	Max. diameter of strands	Nominal thickness of insulation (mm)	Nominal diameter of conductors (mm)	Nominal thickness of the sheath (mm)	Nominal outside diameter* (mm)	Approximate linear weight (kg/km)	Max. linear resistance at 20 °C (Ω/km)
2 x 1.5	0.26	0.8	3.1	0.7	8.0	95	13.7
3 x 1.5	0.26	0.8	3.1	0.7	8.5	115	13.7
4 x 1.5	0.26	0.8	3.1	0.7	9.3	142	13.7
5 x 1.5	0.26	0.8	3.1	0.8	10.5	151	13.7
7 x 1.5	0.26	0.8	3.1	0.9	11.6	204	13.7
12 x 1.5	0.26	0.8	3.1	1.2	15.8	351	13.7
19 x 1.5	0.26	0.8	3.1	1.2	18.5	522	13.7
24 x 1.5	0.26	0.8	3.1	1.3	21.8	660	13.7
27 x 1.5	0.26	0.8	3.1	1.3	22.3	727	13.7
37 x 1.5	0.26	0.8	3.1	1.3	24.9	960	13.7
2 x 2.5	0.26	0.8	3.6	0.7	9.0	129	8.21
3 x 2.5	0.26	0.8	3.6	0.8	9.9	165	8.21
4 x 2.5	0.26	0.8	3.6	0.9	11.0	210	8.21
5 x 2.5	0.26	0.8	3.6	1.0	12.2	223	8.21
7 x 2.5	0.26	0.8	3.6	1.1	13.5	300	8.21
12 x 2.5	0.26	0.8	3.6	1.2	18.0	499	8.21
19 x 2.5	0.26	0.8	3.6	1.3	21.2	754	8.21
24 x 2.5	0.26	0.8	3.6	1.3	24.8	941	8.21
27 x 2.5	0.26	0.8	3.6	1.4	25.5	1 054	8.21
37 x 2.5	0.26	0.8	3.6	1.4	28.6	1 399	8.21
2 x 4	0.31	0.8	4.2	0.8	10.5	182	5.09
3 x 4	0.31	0.8	4.2	0.9	11.4	231	5.09
4 x 4	0.31	0.8	4.2	1.0	12.7	294	5.09
5 x 4	0.31	0.8	4.2	1.1	14.0	313	5.09
7 x 4	0.31	0.8	4.2	1.1	15.3	415	5.09
12 x 4	0.31	0.8	4.2	1.3	20.7	704	5.09
2 x 6	0.31	1.0	5.2	1.0	12.9	277	3.39
3 x 6	0.31	1.0	5.2	1.1	13.9	350	3.39
4 x 6	0.31	1.0	5.2	1.1	15.3	438	3.39
5 x 6	0.31	1.0	5.2	1.2	16.9	465	3.39
7 x 6	0.31	1.0	5.2	1.2	18.6	625	3.39
2 x 10	0.41	1.1	6.4	1.2	15.7	421	1.95
3 x 10	0.41	1.1	6.4	1.2	16.7	526	1.95
4 x 10	0.41	1.1	6.4	1.2	18.5	665	1.95
5 x 10	0.41	1.1	6.4	1.3	20.5	708	1.95
2 x 16	0.41	1.1	7.4	1.2	17.8	583	1.24
3 x 16	0.41	1.1	7.4	1.2	19.0	740	1.24
4 x 16	0.41	1.1	7.4	1.3	21.1	946	1.24
5 x 16	0.41	1.1	7.4	1.3	23.2	1 008	1.24
2 x 25	0.41	1.2	8.6	1.3	20.4	824	0.795
3 x 25	0.41	1.2	8.6	1.3	21.8	1 060	0.795
4 x 25	0.41	1.2	8.6	1.3	24.0	1 349	0.795
5 x 25	0.41	1.2	8.6	1.4	26.6	1 468	0.795
2 x 35	0.41	1.2	9.7	1.3	22.6	1 083	0.565
3 x 35	0.41	1.2	9.7	1.3	24.2	1 410	0.565
4 x 35	0.41	1.2	9.7	1.4	26.9	1 815	0.565
5 x 35	0.41	2.2	9.7	1.5	29.8	1 993	0.565
2 x 50	0.41	1.4	11.5	1.4	26.4	1 493	0.393
3 x 50	0.41	1.4	11.5	1.4	28.2	1 949	0.393
4 x 50	0.41	1.4	11.5	1.5	31.4	2 510	0.393
5 x 50	0.41	1.4	11.5	1.6	34.9	2 752	0.393
2 x 70	0.51	1.4	12.7	1.4	28.8	1 907	0.277
3 x 70	0.51	1.4	12.7	1.5	31.0	2 531	0.277
4 x 70	0.51	1.4	12.7	1.6	34.5	3 268	0.277

\* The rated outer diameter of cables may vary by +/- 25% depending on the options.