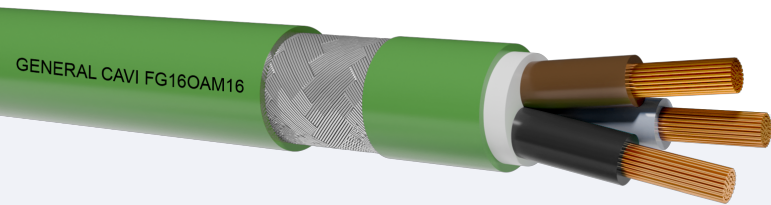


# FG16AM16 0,6/1kV FG16OAM16 0,6/1kV

CPR Cca-s1b,d1,a1

Model Product: G31 - 20240924



Class 5 flexible copper conductor.  
Elastomeric mixture insulation (G16 quality).  
M16+not fibrous and not hygroscopic filler  
Armour in galvanized steel wires braid (Unipolar in Aluminum).  
LSZH thermoplastic sheath, M16.

## STANDARDS

CEI 20-13 CEI 20-38 pqa IEC 60502-1  
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754)

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

## COMMON FEATURES

For electrical power system in constructions alnd other civil engineering bulginngs,in accordance with the CPR. Power and control use outdoor applications, even wet. For fixing outside in free air, but protected by UV rays. The most important property of this kind of cable is its protection against knocks and rodents. It is especially suitable for signals.Power and control use outdoor applications, even wet AD7.

## EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 14D  
Maximum pulling stress: During installation=50 N/mm<sup>2</sup>  
Static stress=15 N/mm<sup>2</sup>

## PACKING

Drums to agree.

CABLES FOR ENERGY AND SIGNALS ISOLATED IN HEPR OF G16 QUALITY, WITH NO HALOGENS AND LOW DEVELOPMENT OF OPAQUE FUMES. FLEXIBLE CABLES WITH BRAIDED THREADS OF STEEL.

Nominal voltage U0: 600V(AC) 1800V(DC)

Nominal voltage U: 1kV(AC)1,8kV(DC)

Test voltage: 4000 V

Maximun voltage Um: 1,2kV(AC)1,8kV(DC)

Maximun operating temperature: 90°C

Maximun short circuit temperature for sections up to 240mm<sup>2</sup>: +250°C

Maximun short circuit temperature for sections over 240mm<sup>2</sup>: +220°C

Minimum installation and laying temperature: 0°C

Min. operating temperature (without mechanical shocks): -15°C

## CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-gray (or blue-brown-Y/G)

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers.

## SHEATH COLOUR

Preferably Green

## INK MARKING

GENERALCAVI - Cca-s1b,d1,a1 - year -FG16OAM16-0,61/kV - form x sect.  
-inner work order - progressive lenght

## NOTE

Special features on request:RI (Hydrocarbon Resistant) CEI 20-34 / 0-1 and PQA to OIL & GAS specifications. Preferably Black Sheath



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Cores number (N°)	Cross section (mm²)	Approx conductor diameter (mm)	Insulation medium thickness (mm)	Maximum external diameter (mm)	Approx cable weight (kg/km)	Electric resistance at 20°C (Ohm/km)	Current carrying capacities	
							30°C in air pipe	20°C In ground
Single core								
1x	10*	4.4	0.7	9.20	220	1.91	66	59
1x	16*	5.7	0.7	10.50	310	1.21	88	77
1x	25*	6.9	0.9	12.0	400	0.78	117	100
1x	35*	8.1	0.9	14.20	560	0.554	144	121
1x	50*	9.8	1.0	15.90	770	0.386	175	150
1x	70*	11.6	1.1	18.90	1000	0.272	184	222
1x	95*	13.3	1.1	21.00	1300	0.206	217	269
1x	120*	15.1	1.2	23.90	1650	0.161	259	287
1x	150*	16.8	1.4	25.90	1850	0.129	355	312
1x	185*	18.6	1.6	26.88	2300	0.106	417	323
1x	240*	21.4	1.7	30.00	2800	0.0801	490	379
1x	300*	23.9	1.8	35.50	3300	0.0641	-	429
1x	400*	27.5	2.0	39.90	4300	0.0486	-	541
Two cores								
2x	1.5	1.6	0.7	12.7	241	13.3	22	23
2x	2.5	2.0	0.7	13.7	280	7.98	30	30
2x	4	2.6	0.7	14.9	336	4.95	40	39
2x	6	3.4	0.7	16.1	395	3.3	51	49
2x	10	4.4	0.7	18.2	567	1.91	69	66
2x	16	5.7	0.7	20.4	738	1.21	91	86
2x	25	6.9	0.9	24.0	1107	0.78	119	111
2x	35	8.1	0.9	26.6	1403	0.554	146	136
2x	50	9.8	1.0	30.5	1830	0.386	175	168
2x	70	11.6	1.1	34.3	2571	0.272	221	207
2x	95	13.3	1.1	38.6	3143	0.206	265	215
2x	120	15.1	1.2	43.0	4316	0.161	305	284
2x	150	16.8	1.4	47.5	5547	0.129	-	324
2x	185	18.6	1.6	53.0	6500	0.106	-	350
2x	240	21.4	1.7	59.8	9600	0.0801	-	400
Three cores								
3x	1.5	1.6	0.7	13.3	262	13.3	19.5	19
3x	2.5	2.0	0.7	14.3	316	7.98	26	25
3x	4	2.6	0.7	15.6	380	4.95	35	32
3x	6	3.4	0.7	16.9	456	3.3	44	41



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Cores number (N°)	Cross section (mm²)	Approx conductor diameter (mm)	Insulation medium thickness (mm)	Maximum external diameter (mm)	Approx cable weight (kg/km)	Electric resistance at 20°C (Ohm/km)	Current carrying capacities	
							30°C in air pipe	20°C In ground
3x	10	4.4	0.7	19.2	675	1.91	60	55
3x	16	5.7	0.7	21.5	939	1.21	80	72
3x	25	6.9	0.9	25.4	1346	0.78	105	93
3x	35	8.1	0.9	28.3	1744	0.554	128	114
3x	50	9.8	1.0	32.4	2262	0.386	154	141
3x	70	11.6	1.1	36.8	3188	0.272	194	176
3x	95	13.3	1.1	41.2	4309	0.206	233	206
3x	120	15.1	1.2	45.8	5635	0.161	268	238
3x	150	16.8	1.4	50.9	6921	0.129	300	272
3x	185	18.6	1.6	56.6	8079	0.106	340	306
3x	240	21.4	1.7	63.3	10639	0.0801	398	360
3x	300	23.9	1.8	66.9	12500	0.0641	-	429
Four cores								
4x	1.5	1.6	0.7	14.1	298	13.3	19.5	19
4x	2.5	2.0	0.7	15.3	357	7.98	26	25
4x	4	2.6	0.7	16.7	438	4.95	35	32
4x	6	3.4	0.7	18.4	535	3.3	44	41
4x	10	4.4	0.7	20.8	802	1.91	60	55
4x	16	5.7	0.7	23.4	1164	1.21	80	72
4x	25	6.9	0.9	27.7	1664	0.78	105	93
4x	35	8.1	0.9	31.0	2100	0.554	130	114
4x	50	9.8	1.0	34.5	2700	0.386	155	141
4x	70	11.6	1.1	39.5	3650	0.272	194	174
4x	95	13.3	1.1	45.0	4950	0.206	235	206
3x35+1x25		8.1	0.9	30.4	2038	0.554	130	114
3x50+1x25		9.8	1.0	33.6	2606	0.386	155	141
3x70+1x35		11.6	1.1	38.2	3540	0.272	194	174
3x95+1x50		13.3	1.1	43.4	4818	0.206	235	206
3x120+1x70		15.1	1.2	48.3	6358	0.161	267	238
3x150+1x95		16.8	1.4	53.9	7852	0.129	-	272
3x185+1x95		18.6	1.6	58.8	9066	0.106	-	306
3x240+1x150		21.4	1.7	66.9	12078	0.0801	-	360
3x300+1x150		23.9	1.8	76.5	16050	0.0641	-	429
Five cores								
5G	1.5	1.6	0.7	15.1	351	13.3	19.5	19



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Cores number (N°)	Cross section (mm²)	Approx conductor diameter (mm)	Insulation medium thickness (mm)	Maximum external diameter (mm)	Approx cable weight (kg/km)	Electric resistance at 20°C (Ohm/km)	Current carrying capacities	
							30°C in air pipe	20°C In ground
5G	2.5	2.0	0.7	16.4	424	7.98	26	25
5G	4	2.6	0.7	18.2	527	4.95	35	32
5G	6	3.4	0.7	19.8	653	3.3	44	41
5G	10	4.4	0.7	22.4	1027	1.91	60	55
5G	16	5.7	0.7	25.4	1415	1.21	80	72
5G	25	6.9	0.9	30.5	2022	0.78	105	93
5G	35	8.1	0.9	33.9	2700	0.554	130	114
5G	50	9.8	1.0	38.0	3400	0.386	155	118
5G	70	11.3	1.1	43.5	4700	0.272	194	174
5G	95	13.3	1.1	47.9	6250	0.206	235	206
5G	120	15.10	1.2	51.0	7700	0.161	-	267
Multicores								
7x	1.5	1.6	0.7	15.1	399	13.3	19.5	19
7x	2.5	2.0	0.7	17.8	496	7.98	26	25
10x	1.5	1.6	0.7	19.7	503	13.3	19.5	19
10x	2.5	2.0	0.7	21.6	644	7.98	26	25
12x	1.5	1.6	0.7	20.2	574	13.3	19.5	19
12x	2.5	2.0	0.7	22.2	732	7.98	26	25
16x	1.5	1.6	0.7	22.0	690	13.3	19.5	19
16x	2.5	2.0	0.7	24.3	950	7.98	26	25
19x	1.5	1.6	0.7	23.0	813	13.3	19.5	19
19x	2.5	2.0	0.7	25.4	1056	7.98	26	25
24x	1.5	1.6	0.7	26.4	972	13.3	19.5	19
24x	2.5	2.0	0.7	29.3	1281	7.98	26	25

Three, four, five and multicores cables can be produced also with Y/G core. Current carrying capacities for single core cables are calculated on 3 close cables, for two core cables with two charged conductors and for three core cables with three charged conductors. Current Carrying capacities according to UNEL 35026 with underground laying standard CEI 64-8-61 (ground temp=20°C, depth=0.8m, ground resistivity=1.5 k m/W.).

\* Braided weave of aluminum wires