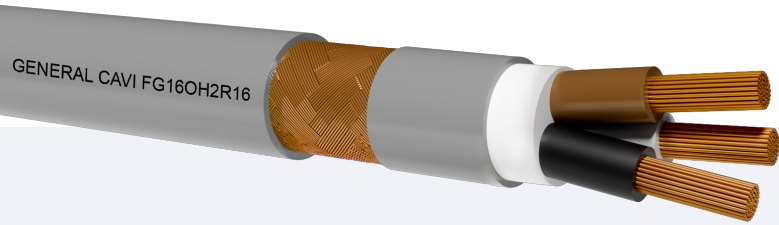


# FG16H2R16 0,6/1kV FG16OH2R16 0,6/1kV

CPR Cca-s3,d1,a3

Model Product: P03 - P04 - 20240924



Class 5 flexible copper conductor.  
Elastomeric mixture insulation (G16 quality).  
PVC+not fibrous and not hygroscopic filler  
Shield made up of a copper wires braid SH.  
Outer Sheath PVC R16 type.

## STANDARDS

CEI 20-13 IEC 60502-1 CEI UNEL 35318-35322-35016  
EN 50575:2014+A1:2016(EN 50399/EN 60332-1-2/EN 60754-2)

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

## COMMON FEATURES

For electrical power system in constructions and other civil engineering bulgnings, in order to limit fire and smoke production and spread, in accordance with the CPR. Power and control use outdoor applications, even wet. For fixing outside in free air. The most important property of this kind of cable is its copper screen protection against electromagnetic interferences. It is especially suitable for signals. Power and control use outdoor applications, even wet AD7. Special features good resistance to industrial oils and greases. Good behavior at low temperatures. UV resistant. EN 50289-4-17 metodo A (720h)

## EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 8D  
Maximum pulling stress: During installation 50 N/mm<sup>2</sup>  
Static stress 15 N/mm<sup>2</sup>

## PACKING

Drums to agree.

FLEXIBLE POWER AND CONTROL CABLE WITH COPPER WIRES BRAID SCREEN AND INSULATION IN G16 QUALITY HEPR

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

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

Test voltage: 4000 V

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

Maximum operating temperature: +90°C

Maximum short circuit temperature: +250°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 (Y/G no blue);

Five cores: Y/G-blue-brown-black-gray (black no Y/G);

Multicores: black with numbers.

## SHEATH COLOUR

Grey

## INK MARKING

GENERAL CAVI -Cca-s3,d1,a3 - IEMMEQU EFP -year - FG16OH2R16-0,61/kV  
- form x sect. -inner work order - progressive length

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Conductor 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° In air or pipe (A)	20°C In ground (A)
Single core								
1x	10*	4.4	0.7	11.60	220	1.91	66	59
1x	16*	5.7	0.7	12.10	310	1.21	88	77
1x	25*	6.9	0.9	13.90	400	0.78	117	100
1x	35*	8.1	0.9	15.30	560	0.554	144	121
1x	50*	9.8	1	17.10	770	0.386	175	150
1x	70*	11.6	1.1	18.00	1000	0.272	184	222
1x	95*	13.3	1.1	21.10	1300	0.206	217	269
1x	120*	15.1	1.2	23.30	1650	0.161	259	287
1x	150*	16.8	1.4	25.50	1850	0.129	355	312
1x	185*	18.6	1.6	27.90	2300	0.106	417	323
1x	240*	21.4	1.7	31.10	2800	0.0801	490	379
1x	300*	23.9	1.8	33.70	3300	0.0641	-	429
1x	400*	27.5	2.0	38.40	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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Model Product: P03 - P04 - 20240924



Conductor 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° In air or pipe (A)	20°C In ground (A)
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	235	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
Three cores								
3x	35+1x25	8.1	0.9	30.4	2038	0.554	130	114
3x	50+1x25	9.8	1.0	33.6	2606	0.386	155	141
3x	70+1x35	11.6	1.1	38.2	3540	0.272	194	174
3x	95+1x50	13.3	1.1	43.4	4818	0.206	235	206
3x	120+1x70	15.1	1.2	48.3	6358	0.161	267	238
3x	150+1x95	16.8	1.4	53.9	7852	0.129	-	272
3x	185+1x95	18.6	1.6	58.8	9066	0.106	-	306
3x	240+1x150	21.4	1.7	66.9	12078	0.0801	-	360
3x	300+1x150*	23.9	1.8	76.5	16050	0.0641	-	429
Five cores								

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Conductor 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° In air or pipe (A)	20°C In ground (A)
5x	1.5	1.6	0.7	15.1	351	13.3	19,5	19
5x	2.5	2.0	0.7	16.4	424	7.98	26	25
5x	4	2.6	0.7	18.2	527	4.95	35	32
5x	6	3.4	0.7	19.8	653	3.3	44	41
5x	10	4.4	0.7	22.4	1027	1.91	60	55
5x	16	5.7	0.7	25.4	1415	1.21	80	72
5x	25	6.9	0.9	30.5	2022	0.78	105	93
5x	35*	8.1	0.9	33.9	2700	0.554	130	114
5x	50*	9.8	1.0	38.0	3400	0.386	155	141
5x	70*	11.6	1.1	43.5	4700	0.272	194	174
5x	95*	13.3	1.1	47.9	6250	0.206	235	206
5x	120*	15.1	1.2	51.0	7700	0.161	267	238
Multicores								
7x	1.5	0.6	0.7	15.1	399	13.3	11.5	18.5
7x	2.5	2.0	0.7	17.8	496	7.98	15.5	24
10x	1.5	1.6	0.7	19.7	503	13.3	11.5	18.5
10x	2.5	2.0	0.7	21.6	644	7.98	15.5	24
12x	1.5	1.6	0.7	20.2	574	13.3	9.5	14.5
12x	2.5	2.0	0.7	22.2	732	7.98	12	20
16x	1.5	1.6	0.7	22.0	690	13.3	9.5	14.5
16x	2.5	2.0	0.7	24.3	950	7.98	12	20
19x	1.5	1.6	0.7	23.0	813	13.3	8	13
19x	2.5	2.0	0.7	25.4	1056	7.98	10.5	16
24x	1.5	1.6	0.7	26.4	972	13.3	8	13
24x	2.5	2.0	0.7	29.3	1281	7.98	10.5	16
36x	1.5*	1.8	0.7	30.4	1100	13.3	8	13
36x	2.5*	2.2	0.7	35.9	1500	7.98	10.5	16
48x	1.5*	1.8	0.7	34.5	1450	13.3	8	13
48x	2.5*	2.2	0.7	41.0	2000	7.98	10.5	16

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.).

\*No IMQ EFP