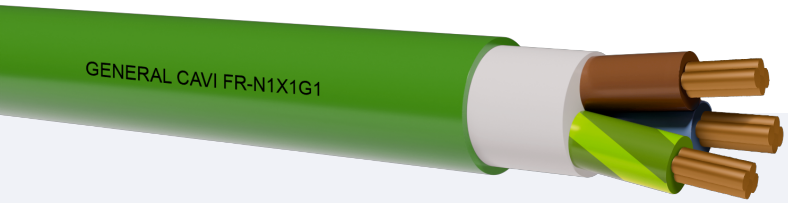
FR-N1X1G1 0,6/1kV

[F]Cca-s1b,d1,a1

Model Product: 387-388 - 20231207



Rigid wire red copper conductor class 1 (section ≤ 4 mm2)
Stranded circular compacted copper conductors class 2 (secetion >4mm2)
XLPE Crosslinked polyethylene insulation(no dry cool).
halogen free
LSZH sheath.

STANDARDS

NF C32-323 C32-323/A1 NF C 32-070 C1 NF C32-070 C2 IEC 61034 EN 50575:2014 + EN 50575/A1:2016 NF C 15-100

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

POWER CABLES INSULATED IN CROSSLINKED POLYETHYLENE
UNDER HALOGEN FREE SHEATH WITH RIGID RED COPPER CONDUCTOR

Nominal voltage U0: 600 V
Nominal voltage U: 1000 V
Test voltage: 4000 V
Maximun voltage Um: 1200 V
Maximun operating temperature: +90°C
Maximun short circuit temperature: +250°C
Minimum installation and laying temperature: -10°C
Min. operating temperature (without mechanical shocks): -25°C
Minimum installation and laying temperature: -10°C

COMMON FEATURES

Cables for indoor installation (in according with standard NF) and for use on industrial sites too. and the upright columns of buildings. They can be fixed to walls without protection if conditions permit; in other cases, the cables will be protected in their path in horizontal and vertical. If the cables during their operation are subject to solar radiation, it is best to protect them. They can be buried in short lengths unsaturated water terrain with the appropriate mechanical protections. Can be laid underground with mechanical protection constructed from slabs, tiles, or bricks. It is not recommend to lay this cable in ground flooded for more than two months per year. With appropriate mechanical protection it can be use in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%. It can be used in ambient temperatures down to -25°C.Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.
Particular characteristics: AD6 NF C15-100 (AD7).-AN 2 sun light. UV resistant according to EN 50289-4-17 method A (720h)

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D

Maximum pulling stress: 5kg/mm² (of copper cross section)

CORE COLOURS

Two cores: blue-brown

Three cores: brown-black-blue (1,5/2,5mm²)brown-black-gray (4mm²)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

Green

MARKING ENGRAVING

METER YEAR GENERAL CAVI Cca-s1b,d1,a1 NF-USE 1325 NF C 32-323 FRN1X1G1 FORM. x SEZ. BATCH

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Cores number	Cross section	Approx cond. diameter	Insulation medium thickness	Minimum sheath thickness	Maximum external diameter	Electric resistance at 20°C	Approx cable weight	Current carrying air free	Current carrying burried
(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
Single core									
1x	4	2.25	0.7	1.09	7.6	4.61	75	45	59
1x	6	3.05	0.7	1.09	8.2	3.08	100	58	74
1x	10	3.8	0.7	1.09	9.2	1.83	140	80	101
1x	16	4.7	0.7	1.09	10.5	1.15	205	107	128
1x	25	5.9	0.9	1.09	12.5	0.727	315	138	144
1x	35	7.1	0.9	1.09	13.5	0.524	400	169	174
1x	50	8.0	1.0	1.09	15.0	0.387	530	207	206
1x	70	9.6	1.1	1.09	17.0	0.268	725	268	254
1x	95	11.4	1.1	1.18	19.0	0.193	985	328	301
1x	120	13.1	1.2	1.18	19.0	0.153	1260	382	343
1x	150	14.6	1.4	1.26	23.0	0.124	1520	-	350
1x	185	16.5	1.6	1.26	25.5	0.0991	1940	-	360
1x	240	18.4	1.7	1.43	28.5	0.0754	2310	-	390
1x	300	21.1	1.8	1.52	31.0	0.0601	3200	-	420
1x	400	23.8	1.9	1.60	34-5	0.0470	4000	-	480
1x	500	26.8	2.0	1.77	38.5	0.0366	5000	-	550
1x	630	31.5	2.2	1.94	43.0	0.0283	6500	-	630
Two cores									
2x	1.5	1.4	0.7	1.43	10.5	12.1	115	26	37
2x	2.5	1.8	0.7	1.43	11.5	7.41	145	36	48
2x	4	2.25	0.7	1.43	13.0	4.61	195	49	63
2x	6	3.05	0.7	1.43	14.0	3.08	265	63	80
2x	10	3.8	0.7	1.43	16.0	1.83	390	86	104
2x	16	4.7	0.7	1.43	18.5	1.15	560	115	136
2x	25	5.9	0.9	1.43	22.0	0.727	850	149	173
2x	35	7.1	0.9	1.43	24.5	0.524	1080	185	208
Three cores									
3x	1.5	1.4	0.7	1.43	11.0	12.1	130	23	31
3x	2.5	1.8	0.7	1.43	12.5	7.41	170	31	41
3x	4	2.25	0.7	1.43	13.5	4.61	230	42	53
3x	6	3.05	0.7	1.43	15.0	3.08	325	54	66
3x	10	3.8	0.7	1.43	17.0	1.83	485	75	87
3x	16	4.7	0.7	1.43	19.5	1.15	705	100	113
3x	25	5.9	0.9	1.43	23.5	0.727	1080	127	144
3x	35	7.1	0.9	1.43	26.0	0.524	1390	158	174

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(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
3x	50	8.0	1.0	1.43	29.0	0.387	1840	192	206
3x	70	9.6	1.1	1.52	34.0	0.268	2540	246	254
3x	95	11.4	1.1	1.60	38.5	0.193	3430	298	301
3x	120	13.1	1.2	1.69	42.5	0.153	4440	346	343
3x	150	14.6	1.4	1.86	47.5	0.124	5380	-	350
3x	185	16.5	1.6	1.94	53.0	0.0991	6920	-	360
3x	240	18.4	1.7	2.11	59.5	0.0754	8420	-	390
3x	300	21.1	1.8	2.28	66.0	0.0601	11300	-	420
Four cores									
4x	1.5	1.4	0.7	1.43	12.0	12.1	160	23	31
4x	2.5	1.8	0.7	1.43	13.0	7.41	205	31	41
4x	4	2.25	0.7	1.43	14.5	4.61	280	42	53
4x	6	3.05	0.7	1.43	16.0	3.08	390	54	66
4x	10	3.8	0.7	1.43	18.5	1.83	590	75	87
4x	16	4.7	0.7	1.43	21.0	1.15	900	100	113
4x	25	5.9	0.9	1.43	25.5	0.727	1415	127	144
4x	35	7.1	0.9	1.43	28.5	0.524	1850	158	174
4x	50	8.0	1.0	1.52	32.5	0.387	2460	192	206
4x	70	9.6	1.1	1.60	37.5	0.268	3445	246	254
4x	95	11.4	1.1	1.69	42.5	0.193	4700	298	301
4x	120	13.1	1.2	1.69	47.5	0.153	6070	346	343
4x	150	14.6	1.4	1.94	52.5	0.124	7950	-	350
4x	185	16.5	1.6	2.11	59.0	0.0991	10050	-	360
4x	240	18.4	1.7	2.28	66.5	0.0754	12750	-	390
4x	300	21.1	1.8	2.45	73.5	0.0601	15800	-	420
3x50+1x35		8.0	1.0	1.52	31.1	0.387	2160	192	206
3x70+1x50		9.6	1.1	1.60	36.2	0.268	3010	246	254
3x95+1x50		11.4	1.1	1.69	40.6	0.193	3960	298	301
3x120+1x70		13.1	1.2	1.86	45.4	0.153	5160	346	343
3x150+1x70		14.6	1.4	1.86	49.5	0.124	6850	-	350
3x185+1x70		16.5	1.6	2.03	54.4	0.0991	8550	-	360
3x240+1x95		18.4	1.7	2.20	61.5	0.0754	10900	-	390
Five cores									
5x	1.5	1.4	0.7	1.43	13.0	12.1	180	23	31
5x	2.5	1.8	0.7	1.43	14.5	7.41	240	31	41
5x	4	2.25	0.7	1.43	16.0	4.61	335	42	53

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(N°)	(mmq)	(mm)	(mm)	(mm)	(mm)	(Ohm/km)	(kg/km)	(A)	(A)
5x	6	3.05	0.7	1.43	17.5	3.08	475	54	66
5x	10	3.8	0.7	1.43	20.0	1.83	720	75	87
5x	16	4.7	0.7	1.43	23.0	1.15	1060	100	113
5x	25	5.9	0.9	1.43	28.0	0.727	1645	127	144
5x	35	7.1	0.9	1.43	31.0	0.524	2250	158	174
5x	50	8.1	1.0	1.43	34.5	0.387	2950	192	206
5x	70	9.7	1.1	1.43	41.5	0.268	4300	246	254
5x	95	11.4	1.1	1.43	46.5	0.193	5710	298	301
Multicores									
7x	1.5	1.4	0.7	1.43	13.5	12.1	220	18	-
7x	2.5	1.8	0.7	1.43	15.0	7.41	310	23	-
10x	1.5	1.4	0.7	1.43	16.5	12.1	310	16	-
10x	2.5	1.8	0.7	1.43	19.0	7.41	440	22	-
12x	1.5	1.4	0.7	1.43	17.0	12.1	370	14	-
12x	2.5	1.8	0.7	1.43	19.5	7.41	525	20	-
14x	1.5	1.4	0.7	1.43	18.0	12.1	430	14	-
14x	2.5	1.8	0.7	1.43	20.5	7.41	610	20	-
19x	1.5	1.4	0.7	1.43	19.5	12.1	560	13	-
19x	2.5	1.8	0.7	1.43	22.5	7.41	745	18	-
24x	1.5	1.4	0.7	1.43	22.5	12.1	710	12	-
24x	2.5	1.8	0.7	1.43	25.5	7.41	1000	16	-