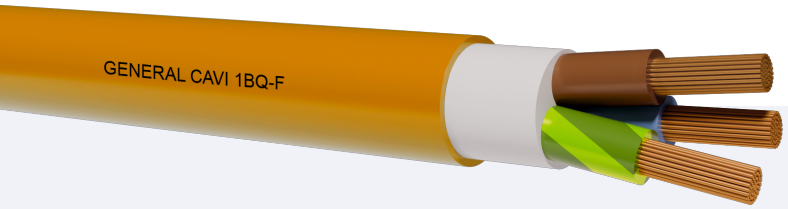
1BQ-F

CPR Eca

Model Product: 250-251 - 20200713



ENERGY TRANSMISSION ELASTOMERIC EI6 INSULATED CABLES WITH POLYURETHANE SHEATH SUITABLE IN DRY, HUMID OR MOIST SITUATIONS, EVEN ON IMMERSIONOIL RESISTANT IN ACCORDING TO EN 60811-2-1

Class 5 flexible copper conductor.
Elastomeric mixture Insulation in EI6 quality.
Not fibrous and not hygroscopic filler
Polyurethane sheath.

STANDARDS

CEI EN 50525-2-21 PQA CEI 20-107/2-21 PQA CEI 20-19/10 PQA
EN 50575:2014 + EN 50575/A1:2016

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2)

- Nominal voltage U0: 600 V
- Nominal voltage U: 1000 V
- Test voltage: 4000 V
- Maximun operating temperature: +90°C
- Maximun short circuit temperature: +250°C
- Minimum installation and laying temperature: -40°C
- Min. operating temperature (without mechanical shocks): -55°C
- Minimum installation and laying temperature: -40°C

COMMON FEATURES

In dry, humid or moist situations, outdoors (AD6 and AD7). Especially suitable in situations where the cable il subject to high abrasion and tear stresses. Suitable for permanent outdoor use where a black sheath is specified and tested against appropriate requirements, or the manifacturer has provided suitable alternative protections.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

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Fixed installation D<8=3D D<12=3D D<20=4D D>20=4D
Free Movement D<8=4D D<12=4D D<20=5D D>20=6D

Maximum pulling stress: 15 N/mm2 section of copper dynamic applications, for fixed 50 N/mm2

PACKING

100mt. rings in thermoplastic film or drums to agree.

CORE COLOURS

Single core: black

SHEATH COLOUR

Orange

INK MARKING

GENERAL CAVI -Eca - 1BQ-F - form x sect. - inner work order - progressive lenght- year

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Cores number	Cross section	Approx conductor diameter	Insulation medium thickness	Approx external production diameter	Approx cable weight	Electric resistance at 20°C	20°C In ground	Current rating for fixed installation for 30°C or pipe
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	25	6.9	1.4	13.74	375	0.780	100	117
1x	35	8.1	1.4	15.35	492	0.554	121	144
1x	50	9.8	1.6	17.68	675	0.386	150	175
1x	70	11.6	1.6	20.00	908	0.272	184	222
1x	95	13.3	1.8	22.12	1171	0.206	217	269
1x	120	15.1	1.8	24.54	1445	0.161	259	312
1x	150	16.8	2.0	26.87	1783	0.129	287	355
1x	185	18.6	2.2	28.89	2125	0.106	323	417
1x	240	21.4	2.4	32.62	2733	0.0801	379	490
1x	300	23.9	2.6	36.46	3350	0.0641	488	637
1x	400	27.5	2.8	39.6	4800	0.0486	553	722
Two cores								
2x	1	1.3	0.8	7.86	75	19.0	-	12.5
2x	1.5	1.6	0.8	8.51	95	13.3	23	22
2x	2.5	2.0	0.9	10.01	137	7.98	30	30
2x	4	2.6	1.0	11.61	193	4.95	39	40
2x	6	3.4	1.0	12.81	250	3.30	49	51
2x	10	4.4	1.2	17.25	444	1.91	66	69
2x	16	5.7	1.2	19.43	608	1.21	86	91
2x	25	6.9	1.4	25.55	1040	0.780	111	119
2x	35	8.1	1.4	28.10	1169	0.554	136	146
2x	50	9.8	1.6	33.1	1600	0.386	168	175
Three cores								
3x	1	1.3	0.8	8.47	95	19.0	-	12.5
3x	1.5	1.6	0.9	8.99	108	13.3	19.0	19.5
3x	2.5	2.0	0.9	10.59	137	7.98	25	26
3x	4	2.6	1.0	12.31	197	4.95	32	35
3x	6	3.4	1.0	13.79	267	3.3	41	44
3x	10	4.4	1.2	18.47	556	1.91	55	60
3x	16	5.7	1.2	21.02	780	1.21	72	80
3x	25	6.9	1.4	27.69	1324	0.780	93	105
3x	35	8.1	1.4	30.95	1754	0.554	114	128
3x	50	9.8	1.6	35.80	2409	0.386	141	154
3x	70	11.6	1.6	40.45	3211	0.272	174	194
3x	95	13.3	1.8	45.08	4210	0.206	206	233

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(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
3x	120	15.1	1.8	49.93	5205	0.161	238	268
Four cores								
4x	1	1.3	0.8	9.61	105	19.0	-	12.5
4x	1.5	1.6	0.8	9.97	120	13.3	19	19.5
4x	2.5	2.0	0.9	11.74	177	7.98	25	26
4x	4	2.6	1.0	13.64	256	4.95	32	35
4x	6	3.4	1.0	15.25	346	3.3	41	44
4x	10	4.4	1.2	20.25	702	1.91	55	60
4x	16	5.7	1.2	22.84	981	1.21	72	80
4x	25	6.9	1.4	30.75	1714	0.780	93	105
4x	35	8.1	1.4	34.23	2204	0.554	114	128
4x	50	9.8	1.6	39.56	3029	0.386	141	154
4x	70	11.6	1.6	44.89	4121	0.272	174	194
4x	95	13.3	1.8	50.36	5361	0.206	206	233
4x	120	15.1	1.8	55.53	6546	0.161	238	268
4x	150	16.8	2.0	60.87	8095	0.129	272	300
Five cores								
5G	1	1.3	0.8	10.21	150	19.0	-	12.5
5G	1.5	1.6	0.8	10.81	177	13.3	19	19.5
5G	2.5	2.0	0.9	12.97	260	7.98	25	26
5G	4	2.6	1.0	15.06	372	4.95	32	35
5G	6	3.4	1.0	16.12	491	3.3	41	44
5G	10	4.4	1.2	22.22	852	1.91	55	60
5G	16	5.7	1.2	25.26	1206	1.21	72	80
5G	25	6.9	1.4	33.57	2096	0.780	93	105
5G	35	8.1	1.4	39.20	2697	0.554	114	128
5G	50	9.8	1.6	45.40	3740	0.386	141	154
5G	70	11.6	1.6	48.00	5033	0.272	174	194
5G	95	13.3	1.8	53.22	6271	0.206	206	233

Current carrying capacities for unipolar cables are calculated on 3 spanned cables.