

**07BQ-F**

CPR Eca

Model Product: 250-251 - 20200713

**general**  
**CAVI** s.p.a.

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)

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

Nominal voltage  $U_0$ : 450 V

Nominal voltage  $U$ : 750 V

Test voltage: 2500 V

Maximum voltage  $U_m$ : 1000V Installazioni Fisse / for fixed and protected  
installation

Maximum operating temperature: +90°C

Maximum short circuit temperature: +250°C

Minimum installation and laying temperature: -40°C

Min. operating temperature (without mechanical shocks): -55°C

**COMMON FEATURES**

In dry, humid or moist situations, outdoors (AD6 and AD7); for medium mechanical stresses, such as: equipments in industrial and agricultural workshop, heating installations where there is no risk of contact with hot parts and is not subject to radiations, electric tools as drills, circular saws, motors or transportable generators in construction sites or agricultural plants and so on, for use in cold storage applications. Especially suitable in situations where the cable is 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 manufacturer 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/mm<sup>2</sup> section of copper dynamic applications,  
for fixed 50 N/mm<sup>2</sup>

**PACKING**

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

**CORE COLOURS**

Single core: black

**SHEATH COLOUR**

Orange

**INK MARKING**

GENERAL CAVI -Eca - 07BQ-F - form x sect. - inner work order - progressive  
length- 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	Mobile service Current carrying capacities at 60°C conductor temp	Current rating for fixed installation at 90°C of conductor temp.open air
(N°)	(mm²)	(mm)	(mm)	(mm)	(kg/km)	(Ohm/km)	(A)	(A)
Single core								
1x	25	6.9	1.4	13.74	375	0.780	94	136
1x	35	8.1	1.4	15.35	492	0.554	117	168
1x	50	9.8	1.6	17.68	675	0.386	148	203
1x	70	11.6	1.6	20.00	908	0.272	185	254
1x	95	13.3	1.8	22.12	1171	0.206	222	299
1x	120	15.1	1.8	24.54	1445	0.161	260	363
1x	150	16.8	2.0	26.87	1783	0.129	300	416
1x	185	18.6	2.2	28.89	2125	0.106	341	475
1x	240	21.4	2.4	32.62	2733	0.0801	407	559
1x	300*	23.9	2.6	36.46	3350	0.0641	468	637
1x	400*	27.5	2.8	39.60	4800	0.0486	553	722

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

\*No CPR