



**DRAKA**  
**131937NN EVC-07B<sub>1</sub>Q-F 450/750 V CHARGING CABLE**  
**3G2,5 + 1x0,75mm<sup>2</sup>**

**Application:**

- Charging cable for electrical vehicles, for conductive a.c. charging modes 1 (control core not used), 2 and 3 in accordance with IEC 61851-1
- Suitable for outdoor use
- Especially suitable for heavy-duty applications, where cables have to endure rubbing and dragging across rough and/or sharp surfaces

**Properties in case of fire:**

Flame retardant (acc. EN-IEC 60332-1)  
 Halogen free (acc. EN 50267-2-2)

**General properties:**

- Excellent resistance to heavy mechanical stress
- Highly abrasion resistant
- Very good cold resistant
- Excellent resistance to the effects of oil and greases
- Excellent resistance to chemicals
- Very good resistance to weather influences (UV, including ozone)

**Construction:**

Nominal cross section conductor	2,5 mm <sup>2</sup>
Conductor category	Class 5 = flexible
Number of cores	3
Core insulation:	
Rubber (EPR) in accordance with K175 EVI-2	
Core identification	Colour
Protective conductor	Yes
Screen	No
Material outer sheath	PUR (Polyurethane)
Colour outer sheath	Green
Model	Round
Nom diam. over conductor 2,5mm <sup>2</sup>	1,9 mm
Nom diam. over core 2,5 mm <sup>2</sup>	3,7 mm
Nom diam. over conductor 0,75 mm <sup>2</sup>	1,1 mm
Nom diam. over core 0,75 mm <sup>2</sup>	2,3 mm
Diameter over lay-up incl. 2x dummy	8,8 mm
Outer diameter approx.	11,8 mm
Tolerance of outer diameter	11,6- 12,1 mm

Conductor material	Cu, tinned
Stranding	Multi-core
Nominal cable weight	179 kg/km
Minimum bending radius (fixed wiring)	45 mm
Minimum bending radius (flex.wiring)	50 mm
Max. pulling force (pulling by fletcher)	120 N

**Electrical properties:**

Nominal voltage U <sub>0</sub>	450 V
Nominal voltage U	750 V
Working reactance at 50 Hz	approx. 0,10 Ω/km
Conductor resistance at 20°C, dc (0,75mm <sup>2</sup> )	26,70 Ω/km
Conductor resistance at 20°C, dc (2,5mm <sup>2</sup> )	8,21 Ω/km
Conductor resistance at 90°C, dc	10,5 Ω/km

Maximum current rating number of cores loaded: 2  
 -1 cable installed in free air of 30°C 33 A

**Core colours:**

**Power cores:**

- 3 cores: green/yellow, blue, brown

**Control core:**

- red

**Standards/References:**

K175

**Additional information:**

**Minimum installation temperature:** -40 °C  
**Maximum conductor temperature:** +90 °C\*)  
**Operating temperature:** min. -40°C, max. +75°C\*)  
**Sheath colour:** according to order

\*) The current rating is based on a conductor temperature of 60°C, which takes into account that the surface of the cable should not exceed 50°C, to avoid involuntary reaction in the event of contact with exposed skin.

**Marking:**

**DRAKA 03 EVC-07B1Q-F 450/750 V**  
**CHARGING CABLE 3G2,5 + 1x0,75 mm<sup>2</sup>**  
**KEMA KEUR RATIO-ELECTRIC.COM**