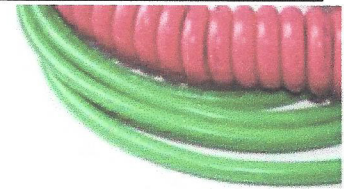


## Technical Information



### DRAKA 131927NN EVC-07B<sub>1</sub>Q-F 450/750 V CHARGING CABLE 5G2,5 + 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	5
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>	1,94 mm
Nom diam. over core 2,5 mm <sup>2</sup>	3,70 mm
Nom diam. over conductor 0,75 mm <sup>2</sup>	1,08 mm
Nom diam. over core 0,75 mm <sup>2</sup>	2,30 mm
Nom outer diameter.	13,50 mm
Tolerance of outer diameter	13,3- 14,0 mm

Conductor material	Cu, tinned
Stranding	Multi-core
Nominal cable weight	258 kg/km
Minimum bending radius (fixed wiring)	54 mm
Minimum bending radius (flex.wiring)	68 mm
Max. pulling force (pulling by fleeter)	198 N

#### Electrical properties:

Nominal voltage U <sub>0</sub>	450 V
Nominal voltage U	750 V
Working reactance at 50 Hz	approx. 0,12 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: 3  
-1 cable installed in free air of 30°C 30 A

#### Core colours:

#### Power cores:

- 5 cores: green/yellow, blue, brown, black, grey

#### 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-07B<sub>1</sub>Q-F 450/750 V  
CHARGING CABLE 5G2,5 + 1x0,75 mm<sup>2</sup>  
KEMA KEUR RATIO-ELECTRIC.COM**