



DRAKA
131937NN EVC-07B₁Q-F 450/750 V CHARGING CABLE
3G2,5 + 1x0,75mm²

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 ²
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 ²	1,9 mm
Nom diam. over core 2,5 mm ²	3,7 mm
Nom diam. over conductor 0,75 mm ²	1,1 mm
Nom diam. over core 0,75 mm ²	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 ₀	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 ²)	26,70 Ω/km
Conductor resistance at 20°C, dc (2,5mm ²)	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 mm²
KEMA KEUR RATIO-ELECTRIC.COM