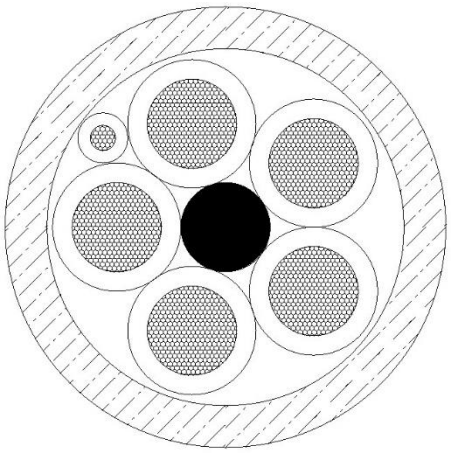
Viper EV Cable
Technical Data Sheet
: CABLE.EV.5x6mm.1x0.5mm.BK

Multi-standard Charging Cable for Electric Vehicles

H07BZ5-F/ IEC 123/ EV-EYU

5 G 6,0 mm² + 0,5 mm²



Specification:	EN 50620
	IEC 62893
	GT/B 33594

Cores 6.0 mm²

Conductor material:	E-Cu ETP1 according
	DIN EN 13602
	stranded bare copper
Conductor design:	nom. 77 x max. 0.31 mm,
	Class 5 according to EN/ IEC
	60228 and GB/T 3956
Core insulation:	EPR crosslinked, type EVI-2 / EY
Core diameter:	4.6 mm (± 0.2)
Insulation wall thickness:	min. 0.53 mm
Colour code:	green-yellow, blue, brown, black, grey

Pilot core 0.5 mm²

Conductor material:	E-Cu ETP1 according
	DIN EN 13602, Class 5 according
	to EN/ IEC 60228 and GB/T 3956
Conductor design:	stranded bare copper
	nom. 15 x max. 0.21 mm
Core insulation:	EPR crosslinked, type EVI-2 / EY
Core diameter:	1.9 mm (± 0.2)
Insulation wall thickness:	min. 0.35 mm
Colour code:	orange

Stranding

Assembly:	5 cores 6.0 mm² +
	1 core 0.5 mm²
Colour code:	green-yellow, blue, brown, black, grey
	pilot core 0.5 mm² in the outer
	space between green-yellow and blue

Outer sheath

Sheath material:	PUR, type EVM-1 / U
	free of halogen, flame retardant
Inner layer:	foamed, colour white
Outer layer:	solid
Outer diameter:	15.8 mm (± 0.3)
Wall thickness:	min. 1.09 mm
Colour code:	black, dull surface

Electrical properties

Conductor resistance:	max. 3.3 Ohm/km (6.0 mm^2)
(DC, 20°C)	max. 39 Ohm/km (0.5 mm^2)
Test voltage:	eff. 2.5 kVolt
(1 min.)	
Nominal voltage:	max. 450 / 750 Volt

Thermal properties

Operating temperature:	-40 °C to +90 °C

Mechanical properties

Bend radius:	
unfixed installation:	min. 6 x cable diameter
Weight of cable:	approx. 400 kg/km

Further Requirements

Odor characteristic:	according to VDA 270
Flame retardancy:	according to. EN 60332-1-2 /
	IEC 60332-1-2/
	GB/T 18380.12
Free of halogen:	acc. to EN 50525-1, Annex B /
	IEC 62821-1, Annex B /
	GB/T 33594

Resistance against acid and alkaline solution: according to. EN 60811-404

Resistance against chemicals: according to EN 50620, Annex D