

AK 100/100V CPR Eca



Application

Special round flexible cables are designed for installations, in trailers. Installation should only be carried out by personnel trained and qualified for electrical works. The product is designed according to recognized standards. Applicable rules of installation must be applied at all time

Global data

Type designation	AK
Standard	ST-VM-R&D-04-15
Construction product regulation (CPR)	CPR acc. to DIN EN 50575, Reaction to fire: Eca CPR Declaration of Performance (DoP) code is in the data table below Web page: www.prysmiangroup.com/cpr

Design features

Conductor	Copper strands (flexible) class 5 acc. to EN 60228
Insulation	PVC
Core identification	Colours of insulation acc. to requirements of customers
Outer sheath	PVC-sheath
Outer sheath colour	Black

Properties

Electrical parameters

Rated voltage	100/100 V
Test voltage	2kV/1min
Max. permissible operating voltage DC	100V

Fire conditions

Self-extinguishing of a single cable	IEC 60332-1-2
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Thermal parameters

Max. permissible temperature at conductor	70 °C
Max. short circuit temperature of the conductor	160 °C
Temperature range for handling	-40 up to +70°C
Min. temperature for laying and manipulation	-5 °C

Mechanical parameters

Min. bending radius	8d(cable diameter)
Maximum retraction force is acc. to formula $P = S \cdot \sigma$	
S - is crosssection of conductor in mm^2	
σ - is allowed tension stress in N/mm^2	
$\sigma = 50N/mm^2$ - for cables with copper conductors	

Environmental aspects

REACH	Yes
RoHS	Yes

Packaging

Coils, cable reels

Number of cores x cross section	Insulation thickness nom. mm	Outer Sheath Thick- ness nom. mm	Dimensions-high nom. mm	Weight (approx.) kg/km	Maximum resistance ohm/km	CPR fire class	CPR DoP-Code
2x0,75	0,55	0,6	5,7	48	26,0	Eca	1002512
4x0,75	0,55	0,6	6,8	70	26,0	Eca	1002512
5x0,75	0,55	0,6	7,4	85	26,0	Eca	1002512
6x0,75	0,55	0,6	7,8	90	26,0	Eca	1002512
7x0,75	0,55	0,6	7,8	100	26,0	Eca	1002512
7x1	0,55	0,85	8,9	135	19,5	Eca	1002512
7x1+1x1,5	0,55	0,95	9,2	150	19,5 and 13,3	Eca	1002512
13x1,5	0,55	0,95	13,6	310	13,3	Eca	1002512