



37

CKS SAPFLEX PS536

Highly flexible, screened single core power cable with abrasion and oil resistant PUR sheath



CKS Sapflex PS536 - Oil resistant and screened power cable for harsh conditions in power chains with UL/cUL AWM certification.

Extended Line Performance - Long travel lengths or high acceleration
Allrounder for indoor and outdoor use
Improved characteristics in the event of a fire

ADVANTAGES

Allows much faster speed and accelerations which increases the economic efficiency of the machines
Increased durability under harsh conditions thanks to robust PUR outer sheath
Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media



Wide temperature range for applications in harsh climatic environments
Longer cable installation lengths thanks to low mutual capacitance cable design
Copper screening complies with EMC requirements and protects against electromagnetic interference

APPLICATION RANGE

In power chains or moving machine parts
For internal wiring of electric and electronic equipment in switch cabinets
Specially designed for power circuits of servomotors driven by frequency converters
This cable can substitute screened multi-core motor cables where space requirements or minimum bending radii cause problems
Test systems in the automotive industry, vehicles and stationary fuel cell systems
For indoor and outdoor use

PRODUCT FEATURES

Flammability:
- Halogen-free acc. to VDE 0472-815
- Flame retardant acc. to IEC 60332-1-2 or UL/cUL VW-1, FT1- No flame propagation acc. to IEC 60332-3-24 Cat. C or /-25 Cat. D
Good weather, UV and oil resistance
Flexible at low temperatures
Low-capacitance design
EMC-compliant

PRODUCT MAKE-UP

Extra-fine wire strand made of bare copper wires (class 6)
Core insulation: TPE compound
Non-woven wrapping
Tinned-copper braiding
PUR outer sheath, black (similar RAL 9005)

TECHNICAL DATA

Classification ETIM 5	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Classification ETIM 6	ETIM 6.0 Class-ID: EC000057 ETIM 6.0 Class-Description: Low voltage power cable
Conductor stranding	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class6
Minimum bending radius	Flexing: up from 7.5 x outer diameter Fixed installation: 3 x outer diameter

Nominal voltage	Flexing: up from 7.5 x outer diameter Fixed installation: 3 x outer diameter
Test voltage	IEC: U0/U 600/1000 V UL & CSA: 1000 V
Temperature range	Flexing: -35°C to +80°C Fixed installation: -50°C to +80°C

ELECTRICAL INFORMATION

Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
CKS SAPFLEX PS536				
CKS PS536-1.5	1.5	7	23.8	60
CKS PS536-2.5	2.5	7.6	41	90
CKS PS536-4	4	7.9	58.8	100
CKS PS536-6	6	8.4	81.3	120
CKS PS536-10	10	9.8	123	180
CKS PS536-16	16	11.3	187.7	240
CKS PS536-25	25	13	280.6	340
CKS PS536-35	35	14.2	398.9	480
CKS PS536-50	50	16.8	551.7	610
CKS PS536-70	70	19.1	773.2	880
CKS PS536-95	95	21.6	1,036.6	1160
CKS PS536-120	120	23.6	1,277.7	1380
CKS PS536-150	150	25.9	1618	1670
CKS PS536-185	185	28.5	1,957.3	1980
CKS PS536-240	240	33.4	2,511.7	2600
CKS PS536-300	300	35.3	3117	3210

