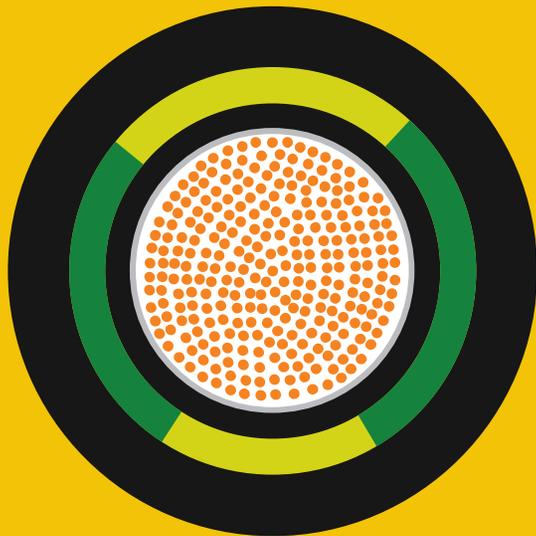




# 36

## CKS SAPFLEX PS535

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



CKS Sapflex PS535 - Oil resistant 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  
 Multi-standard certification reduces part varieties and saves costs  
 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

### 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 multi-core power 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  
 Abrasion and notch-resistant  
 Flexible at low temperatures  
 Low-capacitance design

### PRODUCT MAKE-UP

Extra-fine wire strand made of bare copper wires (class 6)  
 Core insulation: TPE compound  
 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
Torsion movement in WTG	TW-0 & TW-2, refer to Appendix T0
Minimum bending radius	Flexing: up from 7.5 x outer diameter Fixed installation: 3 x outer diameter

Nominal voltage	IEC: U0/U 600/1000 V UL & CSA: 1000 V
Test voltage	4000 V
Protective conductor	Flexing: -35°C to +80°C Fixed installation: -50°C to +80°C

## ELECTRICAL INFORMATION

Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>CKS SAPFLEX PS535</b>				
CKS PS535-1.5	1.5	6.3	14.4	48
CKS PS535-2.5	2.5	6.9	24	63
CKS PS535-4	4	7.2	38.4	77
CKS PS535-6	6	7.7	57.6	95
CKS PS535-10	10	9.1	96	145
CKS PS535-16	16	10.6	153.6	205
CKS PS535-25	25	12.3	240	290
CKS PS535-35	35	13.3	336	413
CKS PS535-50	50	15.9	480	535
CKS PS535-70	70	18	672	776
CKS PS535-95	95	19.9	912	998
CKS PS535-120	120	22.5	1152	1249
CKS PS535-150	150	24.6	1440	1486
CKS PS535-185	185	27.2	1776	1788
CKS PS535-240	240	32.1	2304	2381
CKS PS535-300	300	34	2880	2964

