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## CKS SAPFLEX PS542 P

Highly flexible, halogen-free power cable with low capacitive insulation and oil resistant PUR sheath



CKS Sapflex PS542 P - Power cable for use in drag chains in harsh environmental conditions with UL/CSA AWM certification

Extended Line Performance - Long travel lengths or high acceleration

High oil resistance

Rated voltage 0,6/1 kV

### 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  
 Longer cable installation lengths thanks to low mutual capacitance cable design  
 Wide temperature range for applications in harsh climatic environments

### APPLICATION RANGE

In power chains or moving machine parts  
 Applications in automation engineering  
 Power circuits in industrial machines  
 For use in assembling & pick-and-place machinery  
 Particularly in wet areas of machine tools and transfer lines  
 For indoor and outdoor use

### PRODUCT FEATURES

Flammability:  
 UL/CSA: VW-1, FT1  
 IEC/EN: 60332-1-2  
 Halogen-free materials  
 Resistant to oil and drilling fluids according to IEC 61892-4, Appendix D  
 Low-capacitance design  
 Flexible down to -40°C

### PRODUCT MAKE-UP

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

### TECHNICAL DATA

Classification ETIM 5	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control 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 (up to 16mm <sup>2</sup> ) up from 10 x outer diameter (from 25mm <sup>2</sup> ) Fixed installation: 4 x outer diameter
Nominal voltage	
Nominal voltage	IEC U0/U: 600/1000 V UL & CSA: 1000 V
Test voltage	4000 V

Protective conductor      G = with GN-YE protective conductor  
    X = without protective conductor

Temperature range      Flexing: -40°C to +90°C  
    (UL/CSA: +80°C)  
    Fixed installation: -50°C to +90°C  
    (UL/CSA: +80°C)

## ELECTRICAL INFORMATION

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>CKS SAPFLEX PS542 P</b>				
CKS PS542 5104	4 X 1.5	9.6	58	120
CKS PS542 5105	5 X 1.5	10	72	143
CKS PS542 5204	4 X 2.5	11	96	174
CKS PS542 5205	5 X 2.5	12	120	210
CKS PS542 0404	4 X 4.0	12.5	154	242
CKS PS542 0405	5 X 4.0	13.7	192	316
CKS PS542 0604	4 X 6.0	14.3	231	335
CKS PS542 0605	5 X 6.0	15.7	288	439
CKS PS542 01004	4 X 10.0	17	384	503
CKS PS542 01005	5 X 10.0	18.9	480	663
CKS PS542 01604	4 X 16.0	21.2	615	810
CKS PS542 01605	5 X 16.0	23.8	768	1065
CKS PS542 02504	4 X 25.0	25.9	960	1254
CKS PS542 02505	5 X 25.0	29	1200	1582