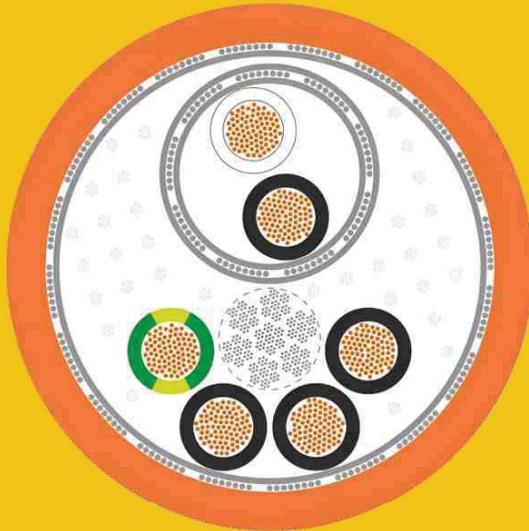




# 22

## CKS SAPFLEX PS521

Screened servo cable with PUR outer sheath for highly dynamic power chain application



CKS Sapflex PS521 - Screened servo cable for high dynamic power chain application in harsh conditions with UL/CSA AWM and VDE certification

Extended Line Performance - Long travel lengths or high acceleration  
Product range extension

### ADVANTAGES

Allows much faster speed and accelerations which increases the economic efficiency of the machines  
Suitable for use with servomotor product lines from leading drive manufacturers  
Low capacitance design enables longer cable connection between frequency converter and motor



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  
Copper braiding screens the cable against electromagnetic interference

### APPLICATION RANGE

Connecting cable between servo controller and motor  
In power chains or moving machine parts  
For use in assembling & pick-and-place machinery  
Particularly in wet areas of machine tools and transfer lines  
Assembly lines, production lines, in all kinds of machines  
For indoor and outdoor use

### PRODUCT FEATURES

Flammability:  
UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Halogen-free materials  
Abrasion and notch-resistant  
Oil-resistant

### PRODUCT MAKE-UP

Extra-fine wire strand made of bare copper wires (class 6)  
Core insulation: polypropylene (PP)  
Individual design depending on the item:  
Power cores without or with one or two individually shielded control core pairs twisted together in short lay lengths  
Power cores with control core triplet twisted together in short lay lengths  
Non-woven wrapping  
Tinned-copper braiding  
PUR outer sheath, orange (RAL 2003)

### 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	Power cores and control cores: IEC U0/U: 600/1000 V UL & CSA: 1000 V
Test voltage	Core/Core: 4 kV Core/Screen: 2 kV
Protective conductor	G = with GN-YE 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) approx.	Copper index (kg/km)	Weight (kg/km)
<b>CKS SAPFLEX PS521</b>				
CKS PS521 01	4 X 1,5	9.1	79	140
CKS PS521 02	4 X 2,5	10.6	129	197
CKS PS521 03	4 X 4	11.9	186	268
CKS PS521 04	4 X 6	14.5	296	397
CKS PS521 05	4 X 10	17.5	449	591
CKS PS521 06	4 X 16	21.6	716	955
CKS PS521 07	4 X 25	25.2	1073	1337
CKS PS521 08	4 X 35	28.6	1480	1769
CKS PS521 09	4 X 50	33.4	2115	2468
CKS PS521 010	4 X 0,75 + (2 x 0,5)	11.0	85.5	155
CKS PS521 011	4 X 1 + (2 x 0,5)	11.5	97.4	164
CKS PS521 012	4 X 1 + (2 x 1,0)	11.7	106.7	174
CKS PS521 013	4 X 1,5 + (2 x 0,5)	12.0	117.2	187
CKS PS521 014	4 X 1,5 + (2 x 1,0)	12.2	129.9	202
CKS PS521 015	4 X 1,5 + (3 x 1,0)	12.0	143.8	220
CKS PS521 016	4 X 1,5 + (3 x 1,0) + (2 x 0,75)	12.9	178.6	262
CKS PS521 017	4 X 1,5 + (2 x 1,5)	11.6	135	261
CKS PS521 018	4 X 1,5 + (4 x 0,5)	12.2	132	217
CKS PS521 019	4 X 2,5 + (2 x 0,5)	12.6	161.2	243
CKS PS521 020	4 X 2,5 + (2 x 1,0)	13.5	169.2	253
CKS PS521 021	4 X 2,5 + (3 x 1,0)	13.5	204.3	294

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm) approx.	Copper index (kg/km)	Weight (kg/km)
CKS PS521 022	4 X 2,5 + (3 x 1,0) + (2 x 0,75)	14.7	242.8	340
CKS PS521 023	4 X 2,5 + (2 x 1,5)	13.4	188	318
CKS PS521 024	4 X 2,5 + (4 x 0,5)	13.5	192.2	278
CKS PS521 025	4 X 4 + (2 x 1,0)	14.8	238.9	359
CKS PS521 026	4 X 4 + (3 x 1,0)	14.7	250	361
CKS PS521 027	4 X 4 + (3 x 1,5) + (2 x 0,75)	16.3	334.7	462
CKS PS521 028	4 X 4 + (2 x 1,5)	14.8	235	385
CKS PS521 029	4 X 4 + (4 x 0,5)	14.9	238.2	345
CKS PS521 030	4 X 6 + (2 x 1,0)	16.8	339.5	469
CKS PS521 031	4 X 6 + (2 x 1,5)	16.8	329	486
CKS PS521 032	4 X 6 + (3 x 1,5)	16.5	381.4	505
CKS PS521 033	4 X 6 + (3 x 1,5) + (2 x 0,75)	18.2	441.2	561
CKS PS521 034	4 X 6 + (4 x 0,5)	16.9	344.9	460
CKS PS521 035	4 X 10 + (2 x 1,0)	18.8	530.1	689
CKS PS521 036	4 X 10 + (2 x 1,5)	19.4	515	701
CKS PS521 037	4 X 10 + (3 x 1,5)	19.7	568.9	722
CKS PS521 038	4 X 10 + (3 x 1,5) + (2 x 0,75)	21.9	612.4	824
CKS PS521 039	4 X 10 + (4 x 0,5)	18.9	528.5	687
CKS PS521 040	4 X 16 + (2 x 1,0)	22.8	786.7	985
CKS PS521 041	4 X 16 + (2 x 1,5)	23.1	757	1048
CKS PS521 042	4 X 16 + (3 x 1,5)	23.3	824.6	1030
CKS PS521 043	4 X 16 + (4 x 0,5)	22.9	786.3	1008
CKS PS521 044	4 X 25 + (2 x 1,5)	26.6	1147	1532
CKS PS521 045	4 X 35 + (2 x 1,5)	30.9	1538	2097
CKS PS521 046	4 X 50 + (2 x 1,5)	34.0	2181	2721
CKS PS521 047	4 X 1,0 + 2 x (2 x 0,75)	11.6	138.4	284
CKS PS521 048	4 X 1,5 + 2 x (2 x 0,75)	12.2	159	313
CKS PS521 049	4 X 2,5 + 2 x (2 x 1,0)	14.6	207	395
CKS PS521 050	4 X 4 + 2 x (2 x 1,0)	16.1	274	466
CKS PS521 051	4 X 4 + (2 x 1,0) + (2 x 1,5)	16.3	344	485
CKS PS521 052	4 X 6 + (2 x 1,0) + (2 x 1,5)	18.1	436	588
CKS PS521 053	4 X 10 + (2 x 1,0) + (2 x 1,5)	21.8	610	819
CKS PS521 054	4 X 16 + 2 x (2 x 1,5)	25.5	801	1135
CKS PS521 055	4 X 25 + 2 x (2 x 1,5)	28.8	1187	1559
CKS PS521 056	4 X 35 + 2 x (2 x 1,5)	30.9	1588	2093
CKS PS521 057	4 X 50 + 2 x (2 x 2,5)	36.3	2557	2920