



# 10

## CKS SAPFLEX PS509

Screened, abrasion- and oil-resistant PUR control cable with reduced outer diameter



CKS Sapflex PS509- PUR control cable, screened, for space-saving, oil- and abrasion resistant application in industrial machinery automation and appliances

- High mechanical strength
- Good oil resistance
- EMC compliant copper screening

### ADVANTAGES

Space and weight-saving installations due to small cable diameters  
 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



Copper braiding screens the cable against electromagnetic interference

### APPLICATION RANGE

Industrial machinery and machine tools  
 Measurement, control and electrical applications  
 Very suitable for oily wet areas within machinery and production lines that are subject to normal mechanical stress  
 Under consideration of the temperature range also suitable for outdoor use

### PRODUCT FEATURES

- High oil-resistance
- Abrasion and notch-resistant
- EMC-compliant
- Low-adhesive surface
- Resistant to hydrolysis and microbes

### PRODUCT MAKE-UP

- Fine-wire, bare copper conductor
- Core insulation: special PVC
- Cores twisted in layers
- Plastic foil wrapping
- Tinned-copper braiding
- Special polyurethane outer sheath (PUR)

### 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	Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius	Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter
Nominal voltage	U0/U: 300/500 V
Test voltage	Core/core: 4000 V Core/screen: 2000 V
Temperature range:	Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +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 PS509</b>				
CKS PS509 5002	2 X 0.5	5.8	36	45
CKS PS509 5003	3 X 0.5	6.1	43	59
CKS PS509 5004	4 X 0.5	6.5	49	83
CKS PS509 5005	5 X 0.5	7	57	96
CKS PS509 5007	7 X 0.5	7.5	69	136
CKS PS509 50012	12 X 0.5	9.9	104	200
CKS PS509 50018	18 X 0.5	11.5	141	275
CKS PS509 50025	25 X 0.5	13.4	211	350
CKS PS509 75002	2 X 0.75	6.2	43	56
CKS PS509 75003	3 X 0.75	6.5	52	70
CKS PS509 75004	4 X 0.75	7	61	95
CKS PS509 75005	5 X 0.75	7.7	72	130
CKS PS509 75007	7 X 0.75	8.3	89	168
CKS PS509 750012	12 X 0.75	10.9	138	232
CKS PS509 750018	18 X 0.75	12.7	211	315
CKS PS509 750025	25 X 0.75	14.8	280	435
CKS PS509 0102	2 X 1.0	6.5	51	84
CKS PS509 0103	3 X 1.0	6.8	62	110
CKS PS509 0104	4 X 1.0	7.3	74	130
CKS PS509 0105	5 X 1.0	8.1	88	156
CKS PS509 0107	7 X 1.0	8.8	112	192
CKS PS509 01012	12 X 1.0	11.5	185	285
CKS PS509 01018	18 X 1.0	13.9	268	395
CKS PS509 01025	25 X 1.0	15.9	354	656
CKS PS509 5102	2 X 1.5	7.1	65	97
CKS PS509 5103	3 X 1.5	7.5	82	125
CKS PS509 5104	4 X 1.5	8.2	100	165
CKS PS509 5105	5 X 1.5	8.9	119	193
CKS PS509 5107	7 X 1.5	9.9	154	245
CKS PS509 51012	12 X 1.5	13	268	365
CKS PS509 51018	18 X 1.5	15.6	373	553
CKS PS509 51025	25 X 1.5	17.9	530	734
CKS PS509 51034	34 X 1.5	20.8	683	944

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
CKS PS509 5203	3 X 2.5	8.9	118	188
CKS PS509 5204	4 X 2.5	9.9	147	236
CKS PS509 5205	5 X 2.5	11	176	270
CKS PS509 5207	7 X 2.5	11.9	253	340
CKS PS509 52012	12 X 2.5	16	355	589
CKS PS509 52018	18 X 2.5	19	569	978
CKS PS509 52025	25 X 2.5	22.2	827	1358
CKS PS509 0404	4 X 4.0	11.6	248	305
CKS PS509 0407	7 X 4.0	14.4	355	500
CKS PS509 0604	4 X 6.0	14.2	343	440
CKS PS509 0607	7 X 6.0	17	505	672
CKS PS509 01004	4 X 10.0	17.2	535	710
CKS PS509 01604	4 X 16.0	20.2	800	1050
CKS PS509 02504	4 X 25.0	25.1	1075	1570
CKS PS509 0350	4 X 35.0	28	1576	2070