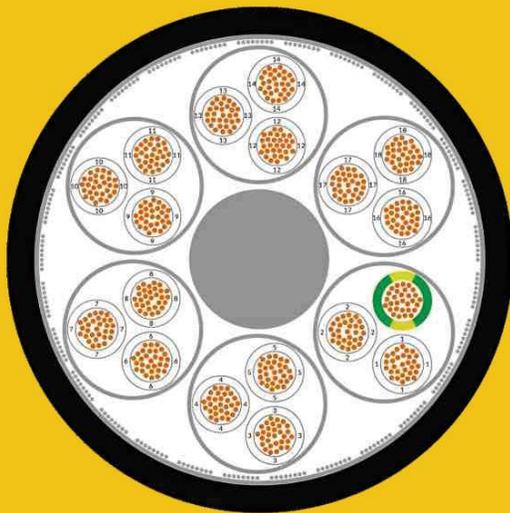




# 44

## CKS SAPFLEX PS543 SC

Shielded, abrasion- and oil-resistant PUR robot cable for high dynamic bending and torsion motions, UL/cUL AWM certified



CKS Sapflex PS542 SC - Screened power and control cable für bending and torsional load in harsh environmental conditions with UL/cUL AWM certification

Simultaneous bending and torsion  
Torsion angle up to +/- 180 °/m  
AWM certification for USA and Canada

### 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  
Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers

### APPLICATION RANGE

Industrial machinery and machine tools  
Automated handling equipment  
Automotive industry  
In power chains or moving machine parts  
Inside of dresspacks of buckling arm robots and for use for gantry robots

### PRODUCT FEATURES

Abrasion and notch-resistant  
Flame-retardant  
High oil-resistance  
Flexible at low temperatures  
Low-adhesive surface

### PRODUCT MAKE-UP

Extra-fine strands, 0.14 mm<sup>2</sup> - 0.5 mm<sup>2</sup> made of tinned copper wires, bare above  
Core insulation: TPE  
Cores (or core pairs) twisted in layers or bundles  
Wrapping made of tinned copper wires for versions with individually screened pairs  
Wrapping of PTFE tape  
Spiral shield of tinned copper wires, version 12 G 1,5 and 18 G 1,5 with screen braiding  
PUR outer sheath, colour anthracite

### 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
Torsion	Torsion
Minimum bending radius	Flexible use: 10 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage	IEC: up to 0.34 mm <sup>2</sup> 250 Vss. 0.5 - 2.5 mm <sup>2</sup> U0/U 300/500 V UL/CSA: up to 1.5 mm <sup>2</sup> 600 V, from 2.5 mm <sup>2</sup> 1000 V

Test voltage Up to 0.34 mm<sup>2</sup>: 1500 V  
From 0.5 mm<sup>2</sup>: 2000 V

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

Temperature range Flexing: -40°C to +80°C  
Fixed installation: -50°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 PS543 SC</b>				
CKS PS543 250203	3 x 2 x 0.25	8.0	38	100
CKS PS543 25025	25 x 0.25	13.8	115	280
CKS PS543 34002	2 x 0.34	5.2	18	54
CKS PS543 34003	3 x 0.34	5.4	20	56
CKS PS543 34004	4 x 0.34	6.6	28	72
CKS PS543 340205	5 x 2 x 0.34	10.2	69	158
<b>Numbered Cores</b>				
CKS PS543 3402	12 X 1.5	15.4	230	380
CKS PS543 51018	18 X 1.5	18.5	340	550
CKS PS543 5104	4 X 1.5	8.8	75.1	120
CKS PS543 5204	4 X 2.5	10.3	116	200
CKS PS543 1025104	4 X 1.5 + (2 x 1.0)	11.0	116	213
CKS PS543 1025204	4 X 2.5 + (2 x 1.0)	12.0	150	270

# Conveyor Technology

