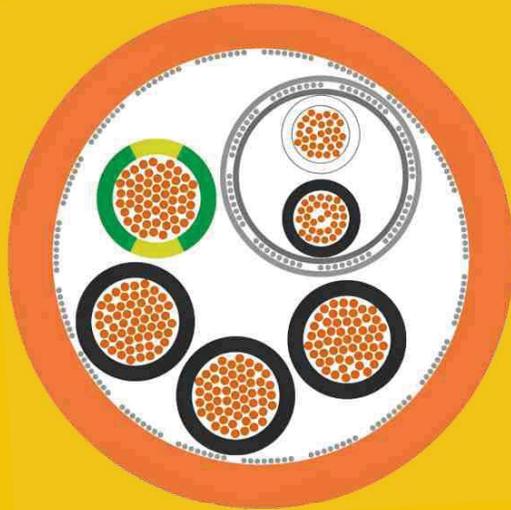




# 19

## CKS SAPFLEX PS518

Multi-listed, flexible servo cable with optional pairs for brake and temperature sensor



CKS Sapflex PS518 - screened servo cable for fixed installation or occasional flexing with UL TC-ER.

Servo motor and drive connections  
Wide application range (NFPA 70/NEC)/ compliance with NFPA 79 for industrial machinery  
EMC-compliant

### ADVANTAGES

One common cable for multiple circuits  
Multi-standard certification reduces part varieties and saves costs  
Cost-saving, easy installation due to omission of closed raceways (suitable for open wiring)



Low capacitance design enables longer cable connection between frequency converter and motor  
UL TC-ER and c(UL) CIC/TC approved

### APPLICATION RANGE

Connecting cable between servo controller and motor  
For fixed installation or applications with occasional movements  
Plant engineering  
Industrial machinery and machine tools

### PRODUCT FEATURES

Oil-resistant according to UL OIL RES I & II  
Flame-retardant according to CSA FT4  
UL Vertical-Tray Flame Test-40°C Cold Bend; -25°C Cold Impact; 90°C Wet or Dry  
Sunlight Resistant; Direct Burial

### PRODUCT MAKE-UP

Fine-wire, bare copper conductor  
Core insulation: XLPE  
Individual design depending on the item: power cores without or with one or two individually screened control core pairs twisted together in short lay lengths  
Tinned-copper braiding  
Outer sheath: Specially formulated thermoplastic elastomer (TPE), orange

### TECHNICAL DATA

|                        |  |
|------------------------|--|
| Classification ETIM 5  | ETIM 5.0 Class-ID: EC000057<br>ETIM 5.0 Class-Description: Low voltage power cable                             |
| Conductor stranding    | Fine wire  |
| Minimum bending radius | Occasional flexing: 15 x outer diameter<br>Fixed installation: 6 x outer diameter                              |
| Nominal voltage        | UL TC: 600V<br>UL Flexible Motor Supply: 1000V<br>c(UL) CIC/TC: 600V<br>cRU AWM: 1000V<br>IEC U0/U: 600/1000 V |
| Test voltage           | 2000 V   |
| Protective conductor   | G = with GN-YE protective conductor<br>Occasional flexing: -25°C to +90°C                                      |

Temperature range

Fixed installation: -40°C to +90°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 PS518</b> |   |                     |                      |                |
| CKS PS51801              | 4 G 1,5   | 9.8                 | 87.81                | 143            |
| CKS PS51802              | 4 G 2,5   | 11.0                | 132.46               | 199            |
| CKS PS51803              | 4 G 4   | 12.8                | 199.43               | 286            |
| CKS PS51804              | 4 G 6   | 14.1                | 281.29               | 373            |
| CKS PS51805              | 4 G 1,5 + (2 x 1,5)                               | 12.6                | 147.34               | 240            |
| CKS PS51806              | 4 G 2,5 + (2 x 1,5)                               | 13.3                | 190.5                | 301            |
| CKS PS51807              | 4 G 4 + (2 x 1,5)                                 | 15.8                | 259.12               | 432            |
| CKS PS51808              | 4 G 6 + (2 x 1,5)                                 | 17.0                | 354.22               | 496            |
| CKS PS51809              | 4 G 1,0 + 2 x (2 x 1,0)                           | 13.2                | 166.69               | 277            |
| CKS PS518010             | 4 G 1,5 + 2 x (2 x 1,0)                           | 13.9                | 187.53               | 314            |
| CKS PS518011             | 4 G 2,5 + 2 x (2 x 1,0)                           | 15.5                | 229.2                | 387            |
| CKS PS518012             | 4 G 4 + (2 x 1,0) + (2 x 1,5)                     | 17.0                | 325.94               | 487            |
| CKS PS518013             | 4 G 6 + (2 x 1,0) + (2 x 1,5)                     | 18.1                | 409.29               | 574            |



# Drag Chain Applications