

0025724	DATA SHEET	
Valid from: 04.04.2019	LK SMS – FX5 Servo Cables acc. to Siemens* Standard 6FX5008	

Application

LAPP servo cables according to Siemens* standard 6FX5008 are screened servo drive cables (part no. 00257001 thru 0025719), or signal cables for encoders or resolvers (part no. 0025724 thru 0025726), with PVC outer sheath and UL/CSA approvals. They are especially designed for fixed installation or occasionally flexible use. Its oil resistant, DESINA compliant PVC sheath allows for usage in typical industrial environments. These cables are generally used for the interconnection between Siemens* servo amplifiers and servo motors. Typical kind of application: in machine tools, production plants, car body presses, transfer lines... Those cables can be used in dry and damp areas at the recommended temperatures of use. Usage of these cables in moving cable carriers, respectively on motor drum guidance or under a strain of more than 15 N/mm² is not allowed. LK SMS-FX5 cables have increased oil resistance and are free of PWIS – Paint-Wetting Impairment Substances.

Technical Data

Conductors

copper
fine-wire stranding acc. to
IEC 60228/VDE 0295 - Class 5

Insulation

Motor cables

power conductors

1.5 mm² thru 6 mm²
10 mm² or larger

PP / polypropylene
PVC / polyvinyl chloride
PP / polypropylene

signal pair (optional)

Signal cables

PP / polypropylene

Identification codes

Power cables

power conductors

black with white letters
(U/L1/C/L+; V/L2; W/L3"D/L-)
black
white

signal pair (optional)

Signal cables

see additional data for particular part number below, please...

Screening

Power cables

signal pair (optional)

braid of tinned copper
optic coverage ≥80 %
braid of tinned copper
nominal optic coverage 80 %

overall shield

Signal cables

see additional data for particular part number below, please...

Jacket

compound

special PVC / polyvinyl chloride
flame retardant
orange (similar to RAL 2003)
green (similar to RAL 6018)

colour

servo cables
data cables

Nominal voltage

Power cables

power conductors - IEC/VDE
signal pair (optional) - IEC/VDE

600/1000 V
24 V

Signal cables

EN 50395 - AC RMS

30 V

Operating voltage

Power cables

UL/CSA

1000 V

Signal cables

UL/CSA

30 V

Test voltage

Power cables

4000 V

Signal cables

500 V

Creator: TOME/PCM Released: ALTE/PDC	Document: DB0025724EN Version: 04	Page 1 of 4
---	--------------------------------------	-------------

We reserve all rights according to DIN ISO 16016.

PD 0019/05_04.18EN

0025724	DATA SHEET		
Valid from: 04.04.2019	LK SMS – FX5 Servo Cables acc. to Siemens* Standard 6FX5008		
Conductor temperature	flexible use stationary use	0 °C to +60 °C -10 °C to +80 °C	
Minimum bend radius	flexible use stationary use	12 x outer cable diameter 5 x outer cable diameter	
Oil resistance	HD 21.13/VDE 0281-13 IEC 60811-2-1/VDE 0473-811-2-1		
Flame retardance	IEC/EN 60332-1 FT1 VW-1		
Certifications	Power cables	UL AWM Style 2570 CSA AWM I/II A/B VDE registration	
	Signal cables	UL AWM Style 2502 CSA AWM I/II A/B	
EU Directive	Power Cables	conform to EU Directive 2014/35/EU (Low-Voltage Directive)	

0025724	DATA SHEET	
Valid from: 04.04.2019	LK SMS – FX5 Servo Cables acc. to Siemens* Standard 6FX5008	

Add-on data of **P/N 0025724** **4x2x0.38+4x0.5 C**

Element 4x2x0.34	core identification code	brown/black red/orange yellow/green blue/violet
Element 4x0.5	core identification code	blue/white black/white red/white yellow/white
Overall shield	braid of tinned copper strands optic coverage – nominal value	80 %
Outer sheath		PVC / polyvinyl chloride oil resistant green (similar to RAL 6018)
Outer diameter		approx. 9.0 mm

Add-on data of **P/N 0025725** **3x(2x0.14 D) + 4x0.14 + 2x0.5 C**

Element 3x(2x0.14 D)	core identification code	yellow/green black/brown red/orange
	pair shield	tinned copper strands optic coverage >90 %
Element 2x0.5	core identification code	brown/red brown/blue
Element 4x0.14	core identification code	grey blue white/yellow white/black
Overall shield	braid of tinned copper strands optic coverage – nominal value	80 %
Outer sheath		PVC / polyvinyl chloride oil resistant green (similar to RAL 6018)
Outer diameter		approx. 8.9 mm

Creator: TOME/PCM Released: ALTE/PDC	Document: DB0025724EN Version: 04	Page 3 of 4
---	--------------------------------------	-------------

0025724	DATA SHEET	
Valid from: 04.04.2019	LK SMS – FX5 Servo Cables acc. to Siemens* Standard 6FX5008	

Add-on data of **P/N 0025726** **3x(2x0.14 D) + 2x0.5 + 4x0.14 + 4x0.23 C**

Element 3x(2x0.14 D)	core identification code	yellow/green black/brown red/orange
	pair shield	tinned copper strands optic coverage >90 %
Element 2x0.5	core identification code	brown/red brown/blue
Element 4x0.14	core identification code	grey blue white/yellow white/black
Element 4x0.23	core identification code	brown/yellow brown/grey green/black green/red
Overall shield	braid of tinned copper strands optic coverage – nominal value	80 %
Outer sheath		PVC / polyvinyl chloride oil resistant green (similar to RAL 6018)
Outer diameter		approx. 9.5 mm

* SIEMENS; SINAMICS, MOTION CONNEC, DRIVE CLIQ and Siemens part designations (i.e. MLFB 6FX5002/5008, 6FX7002/7008, 6FX8002/8008-PLUS) are registered trademarks of Siemens AG and for comparing purpose only.

**DESINA is a registered trademark of the Verein der Deutschen Werkzeugmaschinen Hersteller (VDW)

Creator: TOME/PCM Released: ALTE/PDC	Document: DB0025724EN Version: 04	Page 4 of 4
---	--------------------------------------	-------------

We reserve all rights according to DIN ISO 16016.

PD 0019/05_04.18EN