

U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® SERVO 7DSL	13.01.2016

Low capacitive hybrid servo cable with PVC outer sheath for static use - certified for North America

Only one connection line between drive and motor-feedback system. Instead of the encoder cable an integrated DSL pair takes over the signalling.

Less cables and reduced connection costs

Space and weight savings thanks to hybrid cable design

Multi-standard certification reduces part varieties and saves costs

Easy to install



Oil-resistant



Interference signals

Info

OCS - One Cable Solution

Suitable for Hiperface DSL® motor-feedback systems

EMC-compliant

Application range

For fixed installation or applications with occasional movements

Power drive systems in automation engineering

Connecting cable between servo controller and motor

For use in assembling & pick-and-place machinery

Particularly in wet areas of machine tools and transfer lines

Product Make-up

Fine-wire, bare copper conductor (power cores and control pair) and 7-wire, tinned copper conductor (signal pair)

Core insulation: polypropylene (PP)

Individual design depending on the item: power cores without or with one screened control pair and one DSL signal pair twisted together

Tinned-copper braiding

PVC outer sheath, orange (RAL 2003)

Norm references / Approvals

USA: UL AWM Style 2570

Canada: cUL AWM Style I/II A/B FT1

UL File No. E63634

Product features

Maximum DSL transmission length: 100m

Flammability:

UL/CSA: VW-1, FT1


IEC/EN: 60332-1-2

Oil-resistant

Low-capacitance design

EMC-optimised design

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Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

HIPERFACE DSL® is a registered trademark of SICK AG

Photographs are not to scale and do not represent detailed images of the respective products.

Technical Data

Core identification code:	Power cores: black with marking U/L1/C/L+ V/L2 W/L3/D /L- GN/YE protective conductor Signal pair: white, blue Control pair (optional): black with white numbers 5 + 6
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Conductor stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5 DSL pair: 7-wired
Minimum bending radius:	For flexible use: 15 x outer diameter Fixed installation: 5 x outer diameter
Nominal voltage:	Power and control: IEC: U ₀ /U: 600/1000 V UL: 1000 V Signal pair: 300 V
Test voltage:	Power and control: 4 kV Signal pair: 1kV
Protective conductor:	G = with GN-YE protective conductor
Temperature range:	Flexing: -5°C to +70°C (UL: +80°C) Fixed installation: -40°C to +70°C (UL: +80°C)

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
Hybrid cables for fixed installation				
1023290	4 G 1,5 + (2 x 22AWG)	11,2	110.0	194
1023291	4 G 2,5 + (2 x 22AWG)	12,6	148.0	253
1023292	4 G 4 + (2 x 22AWG)	14.0	208.0	332
1023293	4 G 1,5 + (2 x 1,0) + (2 x 22AWG)	13,2	140.0	250
1023294	4 G 2,5 + (2 x 1,0) + (2 x 22AWG)	14.0	185.0	285
1023295	4 G 4 + (2 x 1,0) + (2 x 22AWG)	15,8	248.0	390