ÖLFLEX® SERVO 7DSL

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

ÖLFLEX® SERVO 7DSL - Hybrid servo DSL cable for fixed installation with UL/cUL AWM.

Info
One cable solution for servo drives
Suitable for Hiperface DSL® and SCS open link interfaces
EMC-compliant

Oil-resistant

Interference signals

Benefits
Only one connection line between drive and motor-feedback system. Instead of the encoder cable a specific integrated data 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

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 features
Maximum DSL transmission length: 100m
Flammability:

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UL/CSA: VW-1, FT1
IEC/EN: 60332-1-2
Oil-resistant
Low-capacitance design
EMC-optimised design

Norm references / Approvals

USA: UL AWM Style 2570
Canada: cUL AWM Style I/II A/B FT1
UL File No. E63634

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 data pair twisted together
Tinned-copper braiding
PVC outer sheath, orange (RAL 2003)

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
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
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: U0/U: 600/1000 V UL: 1000 V Signal pair: 300 V
Test voltage:	Power and control: 4 kV Data 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)

Note

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, ACURO®link and SCS open link are registered trademarks of Hengstler GmbH

Last Update (16.05.2025)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

Article number	Number of cores and mm² 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	194
1023291	4 G 2,5 + (2 x 22AWG)	12.6	148	253
1023292	4 G 4 + (2 x 22AWG)	14	208	332
1023293	4 G 1,5 + (2 x 1,0) + (2 x 22AWG)	13.2	140	250
1023294	4 G 2,5 + (2 x 1,0) + (2 x 22AWG)	14	185	285
1023295	4 G 4 + (2 x 1,0) + (2 x 22AWG)	15.8	248	390

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