

Power chain applications

Servo applications - power drive systems, approved



New

# ÖLFLEX® SERVO FD 798 CP

High-end resolver/encoder cable, screened

LAPP KABEL STUÏGART ÖLFLEX® SERVO FD 798 CP



**Benefits**

- Thin, optimised for weight and volume
- Also suitable for mobile outdoor use
- Suitable for use with encoders & resolvers from leading manufacturers
- To substitute 4 ÖLFLEX® SERVO FD product lines: -760CP/-760CP DESINA®/-770CP/ -770CP DESINA®

**Application range**

- Connecting cable between servo controller and encoder/resolver
- Connecting cable between servo controller and speed generators
- In power chains or moving machine parts
- Particularly in wet areas of machine tools and transfer lines
- Assembly lines, production lines, in all kinds of machines

**Product features**

- Dynamic performance in power chains: Acceleration up to 50 m/s<sup>2</sup>. Travel speeds up to 5 m/s. Travel distances up to 100 m.
- Low-capacitance design
- Halogen-free materials
- Flame retardancy: UL/CSA: VW-1, FT1 IEC/EN: 60332-1-2
- Oil-resistant

**Norm references / Approvals**

- UL AWM Style 20236
- CSA AWM IA/B; IIA/B FT 1
- For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
- UL File Nr. E63634

**Product make-up**

- Fine-wire or extra-fine wire, tinned-copper conductor
- Core insulation: polypropylene (PP)
- Cores (or core pairs) twisted in layers or bundles
- Refer to data sheet for more details
- Non-woven wrapping
- PUR outer sheath, green (RAL 6018)



Info

- Extended Line for heavy duty in power chain applications
- EMC-compliant

**Technical data**



**Classification**

ETIM 5.0 Class-ID: EC000104  
ETIM 5.0 Class-Description: Control cable



**Core identification code**

Details see datasheet ÖLFLEX® SERVO FD 798 CP



**Specific insulation resistance**

> 20 GOhm x cm



**Conductor stranding**

Fine wire or extra-fine wire



**Minimum bending radius**

Flexible use: 7.5 x outer diameter  
Fixed installation: 4 x outer diameter



**Nominal voltage**

IEC: 30 V  
UL & CSA: 30 V



**Test voltage**

Core/core: 1500 V rms  
Core/screen: 750 V rms



**Temperature range**

Flexing: -40°C to +90°C  
(UL/CSA: +80°C)  
Fixed installation: -50°C to +90°C  
(UL/CSA: +80°C)

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® SERVO FD 798 CP</b>				
0036910	4x2x0,34+4x0,5	8.9	79.0	125
0036911	3x(2x0,14)+2x(0,5)	8.9	70.0	120
0036912	3x(2x0,14)+4x0,14+2x0,5	8.8	68.0	110
0036913	3x(2x0,14)+4x0,14+2x0,5+4x0,22	9.4	80.0	130
0036914	9x0,5	8.8	71.0	110
0036915	4x2x0,25+2x1,0	8.8	63.0	109
0036916	6x2x0,25+2x0,5	10.3	67.0	121
0036917	10x0,14+2x0,5	7.7	41.0	82
0036918	10x0,14+4x0,5	8.1	54.0	98
0036920	4x2x0,14+4x0,5	8.2	51.0	95
0036921	4x2x0,25	7.6	38.0	75
0036923	8x2x0,18	7.8	51.0	85
0036924	4x2x0,18	6.4	30.0	52
0036926	12x0,22	6.9	44.0	73
0036927	4x2x0,25+2x0,5	8.5	62.0	98
0036928	2x2x0,14+2x(2x0,14)+4x0,5+(4x0,14)	9.1	79.0	135
0036929	2x(2x0,25)+2x0,5	8.7	46.0	98
0036930	2x2x0,25+2x0,5	7.3	38.0	72

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).  
DESINA® is a registered trademark of the German Machine Tool Builders' Association  
Photographs are not to scale and do not represent detailed images of the respective products.

**Accessories**

- Circular connectors refer to page 608
- SILVYN® CHAIN cable protection and guiding systems