

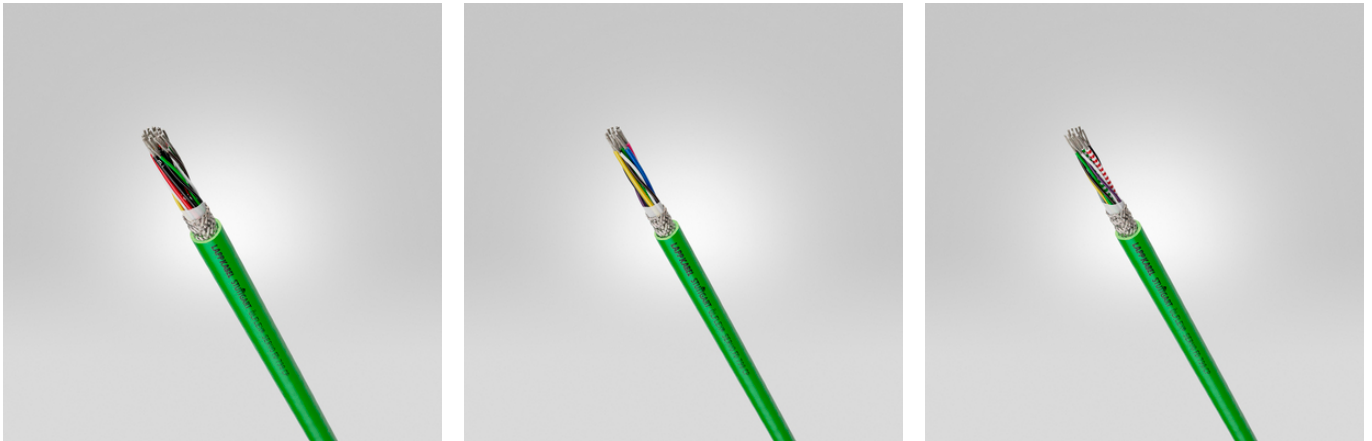
## ÖLFLEX® SERVO FD 798 CP

Screened encoder cable with PUR outer sheath for highly dynamic power chain application - certified

ÖLFLEX® SERVO FD 798 CP - Screened encoder cable for high dynamic power chain application in harsh conditions with UL/CSA AWM certification

### Info

Extended Line Performance - Long travel lengths or high acceleration  
 Fits to various encoder systems  
 AWM certification for USA and Canada



Halogen-free



Mechanical resistance



Oil-resistant



Power chain



Interference signals



UV-resistant

### Benefits

Allows much faster speed and accelerations which increases the economic efficiency of the machines

Suitable for use with encoders & resolvers from leading manufacturers

Thin, optimised for weight and volume

Increased durability under harsh conditions thanks to robust PUR outer sheath

Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Last Update (10.12.2022)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ÖLFLEX® SERVO FD 798 CP

Wide temperature range for applications in harsh climatic environments

### 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  
For indoor and outdoor use

### Product features

Flammability:  
UL/CSA: VW-1, FT1  
IEC/EN: 60332-1-2  
Halogen-free materials  
Low-capacitance design  
Abrasion and notch-resistant  
Oil-resistant

### Norm references / Approvals

UL AWM Style 20236  
CSA AWM IA/B; IIA/B FT 1  
UL File No. E63634  
For use in power chains: Please comply with assembly guideline Appendix T3

### 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)

### 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:	Details see datasheet ÖLFLEX® SERVO FD 798 CP
Conductor stranding:	Fine wire or extra-fine wire
Minimum bending radius:	Flexing: up from 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)

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## ÖLFLEX® SERVO FD 798 CP

Bending cycles & operation parameters:

See Selection Table A2-1 in the appendix of our online catalogue

### Note

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

Copper price basis: EUR 150/100 kg. 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  $\leq$  30 kg or  $\leq$  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 - Decentralized and standardized installation technology for machine tools and manufacturing systems

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

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

**ÖLFLEX® SERVO FD 798 CP**

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SERVO FD 798 CP				
0036910	(4x2x0,34+4x0,5)	8.9	79	125
0036949	(3x(2x0,14)+(2x(0,5)))	9.6	70	120
0036912	(3x(2x0,14)+4x0,14+2x0,5)	8.8	68	110
0036913	(3x(2x0,14)+4x0,14+2x0,5+4x0,22)	9.4	80	130
0036942	(2x2x0,18)	5.0	24	47
0036924	(4x2x0,18)	6.4	30	52
0036923	(8x2x0,18)	7.8	51	85
0036926	(12x0,22)	7.1	44	73
0036915	(4x2x0,25+2x1,0)	8.8	63	109
0036927	(4x2x0,25+2x0,5)	8.5	62	98
0036943	(4x1+4x2x0,14+(4x0,14))	9.7	103	175
0036944	(3x(2x0,25)+3x0,25+2x1,0))	9.3	96	162
0036929	(2x(2x0,25)+2x0,5)	8.7	46	98
0036930	(2x2x0,25+2x0,5)	7.3	38	72
0036914	(9x0,5)	8.8	71	110
0036946	3x(2x0,14)+(2x0,5)	10.0	68	142
0036941	3x(2x0,14)+(3x0,14)	9.2	57	125
0036945	4x(2x0,14)+2x(1)	11.4	92	115
0036916	(6x2x0,25+2x0,5)	10.3	67	121
0036917	(10x0,14+2x0,5)	7.7	41	82
0036918	(10x0,14+4x0,5)	8.1	54	98
0036928	(2x2x0,14+2x(2x0,14)+4x0,5+(4x0,14))	9.1	79	135
0036921	(4x2x0,25)	7.6	38	75
0036947	(5x2x0,25)	9.0	50	126
0036940	(6x2x0,25)	9.3	71	143
0036948	(5x2x22AWG)	8.7	75	109
0036920	(4x2x0,14+4x0,5)	8.2	51	95
0036911	(3x(2x0,14)+2x(0,5))	9.6	70	120
0036931	(3x(2x0,14)+2x(1))	9.1	74	137
0036932	(4x2x0,14+4x0,50+(4x0,14))	8.3	88	134
0036933	(3x2x0,25+2x0,5)	8.4	50	86
0036934	(5x2x0,25+2x0,5)	9.5	69	113
0036935	(3x2x24AWG)	6.5	36	70

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0036936	(5x2x0,14+2x0,5)	7.8	51	101
0036937	(2x2x0,18+5x0,5)	7.6	62	110
0036938	(5x2x0,18+6x0,5)	8.7	79.2	113
0036939	(10x2x28AWG)	6.2	41	70

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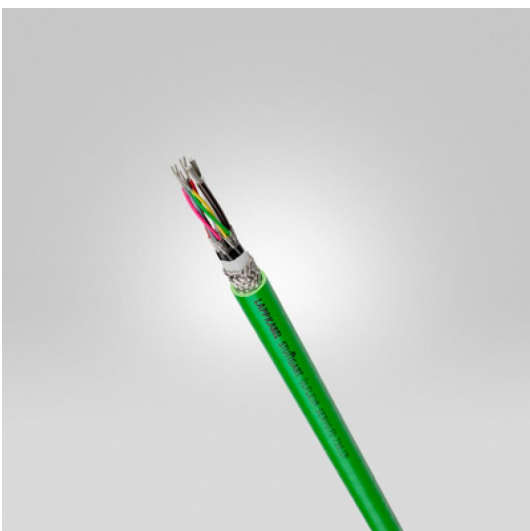
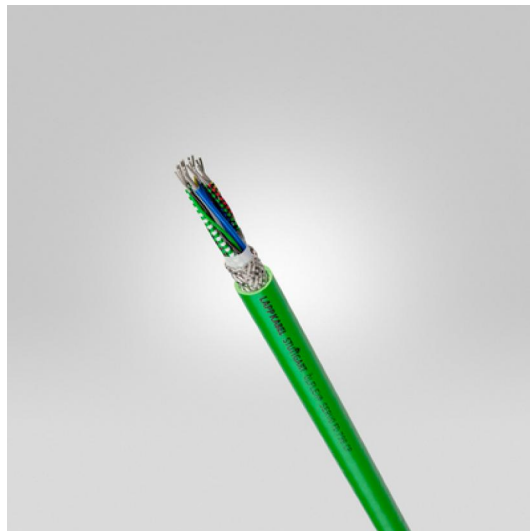
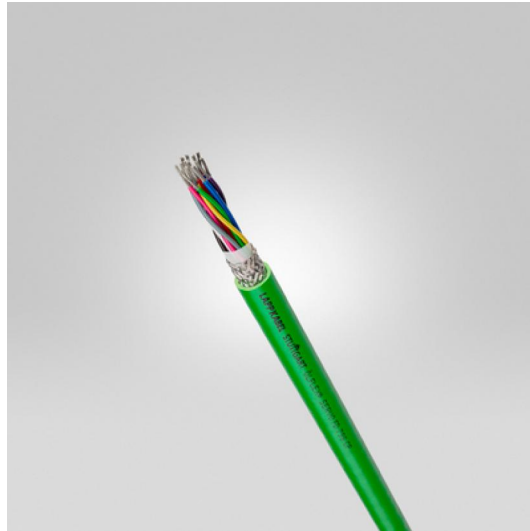
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## ÖLFLEX® SERVO FD 798 CP



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