



ÖLFLEX® SERVO FD 798 CP

Shielded encoder cable with PUR sheath for highly dynamic power chain applications - certified

Info

- Extended line for high loads in power chains
- Suitable for various rotary encoder systems
- AWM certification for USA and Canada



Benefits

- Allows much faster motion sequences which increases the economic efficiency of machines
- Suitable for use with rotary encoder programmes from leading manufacturers
- Thin, optimised weight and volume
- Durable under harsh conditions thanks to robust PUR sheath material
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- 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 tachometer generators
- In power chains or mobile machine parts
- Particularly in wet areas of machine tools and transfer lines
- Assembly and production lines, in all kinds of machines
- For indoor and outdoor use

Product features

- Dynamic drag chain performance: Acceleration up to 50 m/s². Travel speeds up to 5 m/s. Travel distances up to 100 m.
- Flame retardance: UL/CSA: VW-1, FT1 IEC/EN: 60332-1-2
- Halogen-free materials
- Low-capacitance design
- Abrasion-resistant 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

Design

- Fine-wire or extra-fine wire, tin-plated copper conductor
- Core insulation: Polypropylene (PP)
- Cores (or core pairs) twisted in layers or bundles
- Refer to data sheet for more details
- Fleece wrapping
- Polyurethane (PUR) sheath, green (RAL 6018)

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

Conductor design
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 eff.
Core/Shield: 750 V eff.

Alternating bending cycles
10 million cycles

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 ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SERVO FD 798 CP				
0036910	4x2x0,34+4x0,5	8,9	79.0	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 at room temperature. You can receive further values, such as tolerances, upon request if they available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

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

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred packaging (e.g. 1 x 500 m drum or 5 x 100 m rings)

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

Accessories

- Circular connectors refer to page [G114]

- SILVYN® CHAIN cable protection and guiding systems