ÖLFLEX® SERVO FD 798 CP

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

ÖLFLEX® SERVO FD 798 CP - shielded rotary encoder cable for highly dynamic power chain applications in harsh conditions with UL/CSA AWM.

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

UV-resistant

Interference signals

Power chain

Oil-resistant

Mechanical resistance

Halogen-free

Last Update (19.03.2017)

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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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)

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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.
Temperature range:	Flexing: -40°C to +90°C (UL/CSA: +80°C) Fixed installation: -50°C to +90°C (UL/CSA: +80°C)
Alternating bending cycles:	10 million cycles

Note

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)
DESINA® is a registered trademark of the German Machine Tool Builders' Association (VDW)
Photographs 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.

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PRODUCT INFORMATION

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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0036910	4x2x0,34+4x0,5	8.9	79	125
0036911	3x(2x0,14)+2x(0,5)	8.9	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
0036914	9x0,5	8.8	71	110
0036915	4x2x0,25+2x1,0	8.8	63	109
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
0036920	4x2x0,14+4x0,5	8.2	51	95
0036921	4x2x0,25	7.6	38	75
0036923	8x2x0,18	7.8	51	85
0036924	4x2x0,18	6.4	30	52
0036926	12x0,22	6.9	44	73
0036927	4x2x0,25+2x0,5	8.5	62	98
0036928	2x2x0,14+2x(2x0,14)+4x0,5+(4x0,14)	9.1	79	135
0036929	2x(2x0,25)+2x0,5	8.7	46	98
0036930	2x2x0,25+2x0,5	7.3	38	72

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