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

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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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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
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 - 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.

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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
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
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
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
0036936	(5x2x0,14+2x0,5)	7.8	51	101
0036937	(2x2x0,18+5x0,5)	7.6	62	110

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0036938	(5x2x0,18+6x0,5)	8.7	79.2	113
0036939	(10x2x28AWG)	6.2	41	70

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