ÖLFLEX® SERVO FD 796 CP

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

ÖLFLEX® SERVO FD 796 CP - Screened servo cable for high dynamic power chain application in harsh conditions with UL/CSA AWM and VDE certification

Info

Extended Line Performance - Long travel lengths or high acceleration
Product range extension



- 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 servomotor product lines from leading drive manufacturers
Low capacitance design enables longer cable connection between frequency converter and motor
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
Copper braiding screens the cable against

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electromagnetic interference

Application range

Connecting cable between servo controller and motor
In power chains or moving machine parts
For use in assembling & pick-and-place machinery
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
Abrasion and notch-resistant
Oil-resistant

Norm references / Approvals

VDE - Reg. - No. 8591
(0027925,..926,..927,..930 pending)
UL AWM Style 20234
cULus AWM I/II A/B, 1000V 80° FT1
CSA AWM I/II A, 1000V 80° FT1
UL File No. E63634
For use in power chains: Please comply with assembly guideline Appendix T3

Product Make-up

Extra-fine wire strand made of bare copper wires (class 6)
Core insulation: polypropylene (PP)
Individual design depending on the item:
Power cores without or with one or two individually shielded control core pairs twisted together in short lay lengths;
Power cores with control core triplet twisted together in short lay lengths
Non-woven wrapping
Tinned-copper braiding
PUR outer sheath, orange (RAL 2003)

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:	Power cores: black with marking U/L1/C/L+; V/L2; W/L3/D /L-; GN/YE protective conductor Single-paired versions: individual design depending on the item black; white or brown; white Double-paired versions: black with white numbers 5; 6; 7; 8 0.34 mm² pairs: WH/BN/GN/YE Triplet: black with white numbers 1; 2; 3
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6

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Minimum bending radius:	Flexing: up from 7.5 x outer diameter (up to 16mm²) up from 10 x outer diameter (from 25mm²) Fixed installation: 4 x outer diameter
Nominal voltage:	Power cores and control cores: IEC U0/U: 600/1000 V UL & CSA: 1000 V
Test voltage:	Core/Core: 4 kV Core/Screen: 2 kV
Protective conductor:	G = with GN-YE protective conductor
Temperature range:	Flexing: -40 °C to +90 °C (UL/CSA: +80 °C) Fixed installation: -50 °C to +90 °C (UL/CSA: +80 °C)
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.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
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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) approx.	Copper index (kg/km)	Weight (kg/km)
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0027950	4 G 1,5	9.1	79	140
0027951	4 G 2,5	10.6	129	197
0027952	4 G 4	11.9	186	268
0027953	4 G 6	14.5	296	397
0027954	4 G 10	17.5	449	591
0027955	4 G 16	21.6	716	955
0027956	4 G 25	25.2	1073	1337
0027957	4 G 35	28.6	1480	1769
0027958	4 G 50	33.4	2115	2468
0027930	4 G 0,75 + (2 x 0,5)	11.0	85.5	155
0027925	4 G 1 + (2 x 0,5)	11.5	97.4	164
0027931	4 G 1 + (2 x 1,0)	11.7	106.7	174
0027926	4 G 1,5 + (2 x 0,5)	12.0	117.2	187
0027948	4 G 1,5 + (2 x 1,0)	12.2	129.9	202
0027932	4 G 1,5 + (3 x 1,0)	12.0	143.8	220
0027985	4 G 1,5 + (3 x 1,0) + (2 x 0,75)	12.9	178.6	262
0027959	4 G 1,5 + (2 x 1,5)	11.6	135	261
0027990	4 G 1,5 + (4 x 0,5)	12.2	-	217
0027927	4 G 2,5 + (2 x 0,5)	12.6	161.2	243
0027978	4 G 2,5 + (2 x 1,0)	13.5	169.2	253
0027933	4 G 2,5 + (3 x 1,0)	13.5	204.3	294
0027986	4 G 2,5 + (3 x 1,0) + (2 x 0,75)	14.7	-	340
0027960	4 G 2,5 + (2 x 1,5)	13.4	188	318
0027991	4 G 2,5 + (4 x 0,5)	13.5	192.2	278
0027981	4 G 4 + (2 x 1,0)	14.8	238.9	359
0027934	4 G 4 + (3 x 1,0)	14.7	250	361
0027987	4 G 4 + (3 x 1,5) + (2 x 0,75)	16.3	334.7	462
0027961	4 G 4 + (2 x 1,5)	14.8	235	385
0027992	4 G 4 + (4 x 0,5)	14.9	238.2	345
0027982	4 G 6 + (2 x 1,0)	16.8	339.5	469
0027962	4 G 6 + (2 x 1,5)	16.8	329	486
0027935	4 G 6 + (3 x 1,5)	16.5	381.4	505
0027988	4 G 6 + (3 x 1,5) + (2 x 0,75)	18.2	441.2	561

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PRODUCT INFORMATION

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0027993	4 G 6 + (4 x 0,5)	16.9	344.9	460
0027983	4 G 10 + (2 x 1,0)	18.8	530.1	689
0027963	4 G 10 + (2 x 1,5)	19.4	515	701
0027936	4 G 10 + (3 x 1,5)	19.7	568.9	722
0027989	4 G 10 + (3 x 1,5) + (2 x 0,75)	21.9	612.4	824
0027994	4 G 10 + (4 x 0,5)	18.9	528.5	687
0027984	4 G 16 + (2 x 1,0)	22.8	786.7	985
0027964	4 G 16 + (2 x 1,5)	23.1	757	1048
0027937	4 G 16 + (3 x 1,5)	23.3	824.6	1030
0027995	4 G 16 + (4 x 0,5)	22.9	786.3	1008
0027965	4 G 25 + (2 x 1,5)	26.6	1147	1532
0027966	4 G 35 + (2 x 1,5)	30.9	1538	2097
0027967	4 G 50 + (2 x 1,5)	34.0	2181	2721
0027968	4 G 1,0 + 2 x (2 x0,75)	11.6	138.4	284
0027969	4 G 1,5 + 2 x (2 x 0,75)	12.2	159	313
0027970	4 G 2,5 + 2 x (2 x 1,0)	14.6	207	395
0027980	4 G 4 + 2 x (2 x 1,0)	16.1	274	466
0027971	4 G 4 + (2 x 1,0) + (2 x 1,5)	16.3	344	485
0027972	4 G 6 + (2 x 1,0) + (2 x 1,5)	18.1	436	588
0027973	4 G 10 + (2 x 1,0) + (2 x 1,5)	21.8	610	819
0027974	4 G 16 + 2 x (2 x 1,5)	25.5	801	1135
0027975	4 G 25 + 2 x (2 x 1,5)	28.8	1187	1559
0027976	4 G 35 + 2 x (2 x 1,5)	30.9	1588	2093
0027977	4 G 50 + 2 x (2 x 2,5)	36.3	2557	2920

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