

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

PN 0456 / 02_03.16

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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 mm ² 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 16mm ²) up from 10 x outer diameter (from 25mm ²) 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 |
| Bending cycles & operation parameters: | See Selection Table A2-1 in the appendix of our online catalogue |
| Temperature range: | Flexing: -40 °C to +90 °C (UL/CSA: +80 °C) Fixed installation: -50 °C to +90 °C (UL/CSA: +80 °C) |

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

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 mm ² per conductor | Outer diameter (mm) approx. | Copper index (kg/km) | Weight (kg/km) |
|-------------------------|---|-----------------------------|----------------------|----------------|
| ÖLFLEX® SERVO FD 796 CP | | | | |
| 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 | 132 | 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 | 242.8 | 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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| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) approx. | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|-----------------------------|----------------------|----------------|
| 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 x 0,75) | 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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