



# ÖLFLEX® SERVO 720 CY

Screened encoder cable with PVC outer sheath for static use

**Info**

- Feedback signalling
- Fits to various encoder systems
- In EMC-sensitive environments



**Benefits**

- Thin, lightweight, reliable functionality
- Easy to install
- Total screening reduces interferences from nearby cables

**Application range**

- Analogue and incremental encoders in servo drives
- For static and occasionally flexible use
- Measurement, control and electrical applications
- Industrial machinery and plant engineering
- Only for outdoor use within the indicated operating temperature range, with UV-protection

**Product features**

- Flame-retardant according to IEC 60332.1.2

**Norm references / Approvals**

- Core based on VDE 0812/0285
- Outer sheath based on VDE 0250/0285
- This product is designed for appropriate use in a voltage range < 50 V AC or 75 V DC. Therefore, the EEC (Low Voltage Directive) does not apply

**Product Make-up**

- Fine-wire, bare copper conductor
- Core insulation: Based on PVC
- Refer to "Technical Data" for the colour-codes
- Core and pairs are twisted together
- Tinned copper screen braiding (\*with drain wire)
- PVC outer sheath, grey (RAL 7001)

**Technical data**

**Classification**  
 ETIM 5.0 Class-ID: EC000104  
 ETIM 5.0 Class-Description: Control cable

**Core identification code**  
 0036170 pairs: rd/bk, bn/gn, gy/pk, bl/vt; single cores: wt, bn  
 0036175 cores 0.14: wt, bn, gn, ye, gy, pk, bl, rd, bk, vt; cores 0.5: wt, bn  
 0036177 cores 0.14: wt, bn, gn, ye, gy, pk, bl, rd, bk, vt; cores 0.5: wt, bn, bl, bk  
 0036178 cores 0.5: wh, bn, gn, ye; cores 0.14 DIN 47100 from grey  
 0036181 pairs 0.14: rd/bk, bn/gn, ye/vt, gy/pk; single core 0.5: wh, bl, wtgn, bngn  
 0036168 pairs: 0.14 gn/ye, rd/bl, gy/pk; single core 0.5: wt, bn

**Peak operating voltage**  
 350 V Uss (not for power applications)  
 Nominal voltage: 48 V AC

**Conductor stranding**  
 Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm<sup>2</sup>

**Minimum bending radius**  
 Occasional flexing: 20 x outer diameter  
 Fixed installation: 6 x outer diameter

**Test voltage**  
 C/C: 2000 V  
 C/S: 1000 V

**Temperature range**  
 Occasional flexing: -5°C to +70°C  
 Fixed installation: -40°C to +80°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® SERVO 720 CY</b>				
0036170	4 x 2 x 0,25 + 2 x 1,0 *	8.9	70.8	128
0036175	10 x 0,14 + 2 x 0,5	7.9	39.3	88
0036177	10 x 0,14 + 4 x 0,5	8.0	51.1	94
0036178	15 x 0,14 + 4 x 0,5	8.7	59.7	125
0036181	4 x 2 x 0,14 + 4 x 0,5	8.1	48.8	95
0036168	3 x (2 x 0,14) + 2 x (0,5)	8.5	67	129

Unless specified otherwise, the shown product values are nominal values. 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](http://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).  
 Photographs are not to scale and do not represent detailed images of the respective products.

**Similar products**

- ÖLFLEX® SERVO FD 798 CP refer to page 112
- Special Encoder and resolver cables refer to page 118

**Accessories**

- EPIC® SIGNAL M23 Housings
- EPIC® SIGNAL M23 Inserts
- EPIC® SIGNAL M23 Contacts, tools, accessories