

Resolver & encoder cables for fixed installation

Product Description

Thin, light, reliable functionality; Total screening prevents/reduces interference from neighbouring cables



Application range

- Analogue and incremental encoders in servo drives.
- Servo drives and Servo harnessings
- Measurement, control and electrical applications

Benefits

- Thin, light, reliable functionality
- Total screening prevents/reduces interference from neighbouring cables

Design

- Fine strands of bare copper wires
- Core insulation: Based on PVC
- Identity colour code see "Technical data"
- Cores and pairs twisted together
- Tinned copper screen braiding (*with drain wire)
- PVC outer sheath, grey (RAL 7001)
- Flame retardant (IEC 60332-1-2)

Approvals (Norm references)

- 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 features

- Easy laying
- EMC compliant
- Stationary application



- Occasional flexing
- In dry, wet and damp interiors

Technical Data

Core identification code

0036 170 pairs: rd/bk, bn/gn, gy/pk, bl/vt
single cores: wt, bn 0036 175 cores 0.14: wt, bn,
gn, ye, gy, pk, bl, rd, bk, vt
cores 0.5: wt, bn 0036 177 cores 0.14: wt, bn, gn,
ye, gy, pk, bl, rd, bk, vt
cores 0.5: wt, bn, bl, bk
- 0036 178 cores 0.5: wt, bn, gn, ye
cores 0.14 DIN 47100 from grey.0036 181 pairs
0.14: rd/bk, bn/gn, ye/vt, gy/pk
single core.0.5: wt, bl, wtgn, bngn0036 168 pairs:
0.14 gn/ye, rd/bl, gy/pk
single core.0.5: wt, bn

Peak working voltage

(not for power applications) 350 V Uss
Rated voltage: 48 V AC

Based on

Core in accordance with VDE 0812/0281
KRT Standard version with UL-approval for
multi-wire copper conductors with a cross-section
range of 10-400 mm².

Specific insulation resistance

> 20 GOhm x cm

Conductor stranding

Fine wire in accordance with VDE 0295 Cl.5/IEC 60228
Class 5 *) from 0.5 mm²

Minimum bending radius

Occasional flexing: 20 x cable diameter
Fixed installed: 6 x outer diameter

Test voltage

C/C - C/S 2000 - 1000 V

Range of temperature

Occasional flexing: -5°C up to +70°C
Fixed installation: -40°C up to +80°C

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
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	101
0036178	15 x 0,14 + 4 x 0,5	8,7	59.7	145
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	67.0	128.8
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Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil \leq 30 kg and \leq 250 m, otherwise drum

Please specify the desired packaging size (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.