

Combined PVC -control and supply cable for motors of variable frequency drives

### Product Description

One common cable for multiple circuits



### Application range

- Connecting cable between Frequency converter and motor
- Connecting cable between servo controller and motor
- Plant engineering

### Benefits

- One common cable for multiple circuits

### Design

- Fine strands of bare copper wires
- Core insulation: PVC
- Control pairs 0.34 mm<sup>2</sup> colour coded, from 0.5 mm<sup>2</sup> black with consecutive imprinted numbering.
- Control pair screened with laminated aluminium foil and tinned copper wire braid
- The model with one control pair is without laminated aluminium foil (FDF).
- PVC outer sheath, grey (RAL 7001)

### Product features

- Stationary application
- Occasional flexing
- In dry, damp or wet interiors under medium mechanical load conditions
- Outdoor use only with UV protection and in accordance with the temperature range.
- Flame retardant (IEC 60332-1-2)



Technical Data

**Core identification code**

Black with white numbers acc. to VDE 0293  
5-core: coloured according to VDE 0293 0.34 mm<sup>2</sup>  
pairs: WH/BN  
GN/YE

**Based on**

Core: VDE 0812/0250/0281  
Sheath in accordance with VDE 0281/0250

**Specific insulation resistance**

> 20 GOhm x cm

**Conductor stranding**

Fine wire according to VDE 0295 Class 5/ IEC  
60228 Class 5

**Minimum bending radius**

Flexible use: 20 x outer diameter  
Fixed installed: 6 x outer diameter

**Rated voltage**

Supply cores: 600/1000 V  
Control core pairs: 250 V/AC

**Test voltage**

Core: C/C-C/S: 4000 V Control cores: C/C: 1500V, C/S:  
750 V

**Protective conductor**

G = with protective conductor GN/YE  
X = without protective conductor

**Range of temperature**

Flexing: -5°C up to +80°C  
Fixed installation: -40°C up to +80°C

Article List

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
0036140	4 G 0,75 + 2 x (2 x 0,34)	9,5	91.9	120
0036145	4 G 1,5 + 2 x (2 x 0,75)	12,1	100.6	185
0036150	4 G 2,5 + (2 x 2 x 0,75)	13,9	142.1	327
0036151	4 G 4 + (2 x 0,75 + 2 x 1,0)	15,8	217.8	423
0036152	4 G 6 + (2 x 0,75 + 2 x 1,0)	16,7	294.6	544
0036154	4 G 16 + (2 x 2 x 1,0)	23,5	668.8	1168
0036025	4 G 1,5 + (2 x 0,75)	11,7	98.0	149
0036001	5 G 1,5 + (2 x 0,75)	12,7	110.0	160
0036015	7 G 1,5 + (2 x 0,75)	12,4	144.8	210
0036026	4 G 2,5 + (2 x 0,75)	13,1	138.6	227
0036020	7 G 2,5 + (2 x 0,75)	15,2	215.7	334

**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](http://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.