



# LiYY

## Electronic control cable, unscreened

### CONTROL AND ELECTRONICS CABLES

In the electronics of measuring and control devices for the transmission of signals in the range of milliamperes, protected against crosstalks between the circuits and against external electrical influences.



#### TECHNICAL DATA



**Standard**  
adapted to DIN VDE 0812



**Test Voltage**  
800 V<sub>eff</sub>



**Rated Voltage**  
max. 350 V<sub>ss</sub> (0,14 mm)  
max. 500 V<sub>ss</sub> (≥ 0,25 mm)



**Bending radius (min.)**  
4 x Ø der Leitung



**Fire properties**  
EN 60332-1-2: flame retardant



**Core identification**  
DIN 47100



**Temperature range**  
Laying temperature: min. -5°C  
Conductor temperature: max. 70°C  
Fixed installation: -30°C up to 70°C  
Flexible use: -5°C up to 70°C

#### DESIGN



## Electrical parameters

|                                               |       |      |      |      |     |      |
|-----------------------------------------------|-------|------|------|------|-----|------|
| Conductor diameter                            | mm    | 0.14 | 0.25 | 0.34 | 0.5 | 0.75 |
| Conductor resistance, max. at 20 °C           | Ω/km  | 148  | 79.9 | 57.4 | 39  | 26   |
| Insulation resistance, min. at 20 °C          | MΩ/km | 200  | 200  | 200  | 200 | 200  |
| Mutual capacitance (approx. value), at 800 Hz | nF/km | 120  | 120  | 120  | 150 | 150  |

| Number of cores x conductor diameter | Outer diameter appr. (mm) | Total weight appr. (kg/km) | Standard lengths/packing (m) |
|--------------------------------------|---------------------------|----------------------------|------------------------------|
| 2 x 0.14                             | 3.2                       | 12                         | 1000 Sp                      |
| 2 x 0.25                             | 3.8                       | 25                         | 1000 Sp                      |
| 2 x 0.34                             | 4.2                       | 28                         | 1000 Sp                      |
| 2 x 0.5                              | 4.7                       | 25                         | 1000 Sp                      |
| 2 x 0.75                             | 5.1                       | 44                         | 1000 Sp                      |
| 3 x 0.14                             | 3.4                       | 15                         | 1000 Sp                      |
| 3 x 0.25                             | 4                         | 29                         | 1000 Sp                      |
| 3 x 0.34                             | 4.4                       | 30                         | 1000 Sp                      |
| 3 x 0.5                              | 5                         | 35                         | 1000 Sp                      |
| 3 x 0.75                             | 5.6                       | 64                         | 1000 Sp                      |
| 4 x 0.14                             | 3.6                       | 17                         | 1000 Sp                      |
| 4 x 0.25                             | 4.3                       | 31                         | 1000 Sp                      |
| 4 x 0.34                             | 4.8                       | 40                         | 1000 Sp                      |
| 4 x 0.5                              | 5.6                       | 42                         | 1000 Sp                      |
| 4 x 0.75                             | 6.1                       | 66                         | 1000 Sp                      |
| 5 x 0.14                             | 3.9                       | 22                         | 1000 Sp                      |
| 5 x 0.25                             | 4.7                       | 38                         | 1000 Sp                      |
| 5 x 0.34                             | 5.5                       | 44                         | 1000 Sp                      |
| 5 x 0.5                              | 6.1                       | 49                         | 1000 Sp                      |
| 5 x 0.75                             | 6.9                       | 77                         | 1000 Sp                      |
| 6 x 0.14                             | 4.2                       | 25                         | 1000 Sp                      |
| 6 x 0.25                             | 5.1                       | 42                         | 1000 Sp                      |
| 6 x 0.34                             | 5.9                       | 53                         | 1000 Sp                      |
| 6 x 0.5                              | 6.9                       | 65                         | 1000 Sp                      |
| 7 x 0.14                             | 4.3                       | 26                         | 1000 Sp                      |
| 7 x 0.34                             | 5.9                       | 60                         | 1000 Sp                      |
| 7 x 0.5                              | 6.9                       | 73                         | 1000 Sp                      |
| 7 x 0.75                             | 7.5                       | 95                         | 1000 Sp                      |
| 8 x 0.14                             | 4.5                       | 29                         | 1000 Sp                      |
| 8 x 0.25                             | 5.7                       | 54                         | 1000 Sp                      |
| 8 x 0.34                             | 6.4                       | 65                         | 1000 Sp                      |
| 8 x 0.5                              | 7.4                       | 83                         | 1000 Sp                      |
| 8 x 0.75                             | 8                         | 122                        | 1000 Sp                      |
| 10 x 0.14                            | 5.2                       | 35                         | 1000 Sp                      |
| 10 x 0.25                            | 6.8                       | 65                         | 1000 Sp                      |
| 10 x 0.34                            | 7.6                       | 77                         | 1000 Sp                      |
| 10 x 0.5                             | 8.6                       | 120                        | 1000 Sp                      |
| 12 x 0.14                            | 5.6                       | 43                         | 1000 Sp                      |
| 12 x 0.25                            | 7                         | 75                         | 1000 Sp                      |
| 12 x 0.34                            | 7.8                       | 97                         | 1000 Sp                      |
| 12 x 0.5                             | 9                         | 130                        | 1000 Sp                      |
| 12 x 0.75                            | 10.1                      | 188                        | 1000 Sp                      |
| 14 x 0.14                            | 5.8                       | 48                         | 1000 Sp                      |
| 14 x 0.25                            | 7.3                       | 89                         | 1000 Sp                      |



| Number of cores x conductor diameter | Outer diameter appr. (mm) | Total weight appr. (kg/km) | Standard lengths/packing (m) |
|--------------------------------------|---------------------------|----------------------------|------------------------------|
| 14 x 0.34                            | 8.7                       | 114                        | 1000 Sp                      |
| 16 x 0.14                            | 6.1                       | 52                         | 1000 Sp                      |
| 16 x 0.25                            | 7.7                       | 95                         | 1000 Sp                      |
| 16 x 0.34                            | 9.1                       | 135                        | 1000 Sp                      |
| 16 x 0.5                             | 10.2                      | 152                        | 1000 Sp                      |
| 18 x 0.14                            | 6.9                       | 65                         | 1000 Sp                      |
| 18 x 0.25                            | 8.1                       | 99                         | 1000 Sp                      |
| 18 x 0.34                            | 9.1                       | 135                        | 1000 Sp                      |
| 18 x 0.5                             | 10.2                      | 159                        | 1000 Sp                      |
| 20 x 0.25                            | 8.5                       | 115                        | 1000 Sp                      |
| 21 x 0.14                            | 6.9                       | 79                         | 1000 Sp                      |
| 21 x 0.34                            | 10.3                      | 151                        | 1000 Sp                      |
| 24 x 0.14                            | 7.6                       | 89                         | 1000 Sp                      |
| 24 x 0.25                            | 9.4                       | 143                        | 1000 Sp                      |
| 24 x 0.34                            | 11                        | 171                        | 1000 Sp                      |
| 24 x 0.5                             | 12.5                      | 250                        | 1000 Sp                      |
| 25 x 0.14                            | 7.7                       | 91                         | 1000 Sp                      |
| 27 x 0.14                            | 7.8                       | 106                        | 1000 Sp                      |
| 30 x 0.14                            | 8.3                       | 106                        | 1000 Sp                      |
| 30 x 0.25                            | 10.3                      | 172                        | 1000 Sp                      |
| 30 x 0.34                            | 11.6                      | 207                        | 1000 Sp                      |
| 30 x 0.5                             | 13.5                      | 267                        | 1000 Sp                      |
| 32 x 0.14                            | 8.6                       | 112                        | 1000 Sp                      |
| 32 x 0.34                            | 12.1                      | 223                        | 1000 Sp                      |
| 36 x 0.14                            | 8.8                       | 120                        | 1000 Sp                      |
| 36 x 0.25                            | 11.1                      | 196                        | 1000 Sp                      |
| 36 x 0.34                            | 12.5                      | 244                        | 1000 Sp                      |
| 36 x 0.5                             | 14.5                      | 315                        | 1000 Sp                      |

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