



TEKAB

## MULTIPAIR CONTROL CABLE - LiYY

### DESCRIPTION

- **Conductor:** Flexible bare copper class 5 to IEC 60228
- **Insulation:** PVC type TI2
- **Identification:** colour coded to **DIN 47100, JB, OB, JZ, OZ,**
- **Pairing:** two insulated conductors twisted together to form a pair
- **Assembly:** in concentric layers
- **Jacket:** overall PVC type TM2

**SPECIFICATION: Generally to VDE 0245,0812**

### CHARACTERISTICS

- Min. **Insulation Resistance** at 20°C: 200MΩ.km

|                  | 0.14 mm <sup>2</sup> | =>0.25 mm <sup>2</sup> |
|------------------|----------------------|------------------------|
| - Test Voltage : | 1200 V               | 2500 V                 |
| - Rated Voltage: | 350 V                | 500 V                  |

- **Conductor Resistance:** refer to technical section

### Conductor: 0.14mm<sup>2</sup>

| Size<br>Nr X mm <sup>2</sup> | Approx.<br>O.D.<br>mm | Copper<br>Weight<br>kg/km | Approx.<br>Weight<br>kg/km |
|------------------------------|-----------------------|---------------------------|----------------------------|
| 1 X 2 X 0.14                 | 3.2                   | 2.7                       | 13                         |
| 2 X 2 X 0.14                 | 4.5                   | 5.5                       | 22                         |
| 3 X 2 X 0.14                 | 5.0                   | 8.2                       | 29                         |
| 4 X 2 X 0.14                 | 5.5                   | 11.0                      | 35                         |
| 5 X 2 X 0.14                 | 5.8                   | 13.7                      | 41                         |
| 6 X 2 X 0.14                 | 6.4                   | 16.4                      | 51                         |
| 7 X 2 X 0.14                 | 6.8                   | 19.2                      | 58                         |
| 8 X 2 X 0.14                 | 7.2                   | 21.9                      | 64                         |
| 10 X 2 X 0.14                | 7.9                   | 27.4                      | 77                         |
| 11 X 2 X 0.14                | 8.2                   | 30.1                      | 84                         |
| 12 X 2 X 0.14                | 8.6                   | 32.9                      | 90                         |
| 14 X 2 X 0.14                | 9.6                   | 38.3                      | 113                        |
| 15 X 2 X 0.14                | 9.8                   | 41.1                      | 120                        |
| 16 X 2 X 0.14                | 10.1                  | 43.8                      | 126                        |
| 18 X 2 X 0.14                | 10.6                  | 49.3                      | 139                        |
| 20 X 2 X 0.14                | 11.1                  | 54.8                      | 152                        |
| 22 X 2 X 0.14                | 11.6                  | 60.2                      | 165                        |
| 24 X 2 X 0.14                | 12.4                  | 65.7                      | 191                        |
| 25 X 2 X 0.14                | 12.6                  | 68.5                      | 197                        |
| 26 X 2 X 0.14                | 12.8                  | 71.2                      | 204                        |
| 27 X 2 X 0.14                | 13.0                  | 73.9                      | 210                        |
| 28 X 2 X 0.14                | 13.2                  | 76.7                      | 217                        |
| 30 X 2 X 0.14                | 13.6                  | 82.2                      | 229                        |
| 32 X 2 X 0.14                | 14.0                  | 87.6                      | 242                        |
| 34 X 2 X 0.14                | 14.4                  | 93.1                      | 255                        |
| 36 X 2 X 0.14                | 14.7                  | 98.6                      | 267                        |
| 38 X 2 X 0.14                | 15.1                  | 104.1                     | 280                        |
| 40 X 2 X 0.14                | 15.4                  | 109.5                     | 292                        |
| 44 X 2 X 0.14                | 16.1                  | 120.5                     | 317                        |
| 45 X 2 X 0.14                | 16.2                  | 123.2                     | 323                        |
| 50 X 2 X 0.14                | 17.0                  | 136.9                     | 354                        |
| 52 X 2 X 0.14                | 17.7                  | 142.4                     | 386                        |
| 55 X 2 X 0.14                | 18.1                  | 150.6                     | 405                        |
| 61 X 2 X 0.14                | 19.0                  | 167.0                     | 442                        |

### Conductor: 0.25mm<sup>2</sup>

| Size<br>Nr X mm <sup>2</sup> | Approx.<br>O.D.<br>mm | Copper<br>Weight<br>kg/km | Approx.<br>Weight<br>kg/km |
|------------------------------|-----------------------|---------------------------|----------------------------|
| 1 X 2 X 0.25                 | 3.5                   | 4.8                       | 16                         |
| 2 X 2 X 0.25                 | 5.0                   | 9.6                       | 28                         |
| 3 X 2 X 0.25                 | 5.6                   | 14.4                      | 38                         |
| 4 X 2 X 0.25                 | 6.3                   | 19.2                      | 51                         |
| 5 X 2 X 0.25                 | 6.6                   | 24.0                      | 60                         |
| 6 X 2 X 0.25                 | 7.2                   | 28.8                      | 70                         |
| 7 X 2 X 0.25                 | 7.6                   | 33.5                      | 79                         |
| 8 X 2 X 0.25                 | 8.1                   | 38.3                      | 89                         |
| 10 X 2 X 0.25                | 9.3                   | 47.9                      | 117                        |
| 11 X 2 X 0.25                | 9.7                   | 52.7                      | 127                        |
| 12 X 2 X 0.25                | 10.0                  | 57.5                      | 136                        |
| 14 X 2 X 0.25                | 10.7                  | 67.1                      | 155                        |
| 15 X 2 X 0.25                | 11.0                  | 71.9                      | 165                        |
| 16 X 2 X 0.25                | 11.3                  | 76.7                      | 174                        |
| 18 X 2 X 0.25                | 12.3                  | 86.3                      | 206                        |
| 20 X 2 X 0.25                | 12.9                  | 95.8                      | 225                        |
| 22 X 2 X 0.25                | 13.4                  | 105.4                     | 244                        |
| 24 X 2 X 0.25                | 13.9                  | 115.0                     | 263                        |
| 25 X 2 X 0.25                | 14.1                  | 119.8                     | 272                        |
| 26 X 2 X 0.25                | 14.4                  | 124.6                     | 281                        |
| 27 X 2 X 0.25                | 14.6                  | 129.4                     | 290                        |
| 28 X 2 X 0.25                | 14.9                  | 134.2                     | 300                        |
| 30 X 2 X 0.25                | 15.3                  | 143.8                     | 318                        |
| 32 X 2 X 0.25                | 15.7                  | 153.4                     | 336                        |
| 34 X 2 X 0.25                | 16.2                  | 162.9                     | 355                        |
| 36 X 2 X 0.25                | 16.6                  | 172.5                     | 373                        |
| 38 X 2 X 0.25                | 17.0                  | 182.1                     | 391                        |
| 40 X 2 X 0.25                | 17.8                  | 191.7                     | 428                        |
| 44 X 2 X 0.25                | 18.5                  | 210.9                     | 465                        |
| 45 X 2 X 0.25                | 18.7                  | 215.7                     | 474                        |
| 50 X 2 X 0.25                | 19.6                  | 239.6                     | 520                        |
| 52 X 2 X 0.25                | 19.9                  | 249.2                     | 538                        |
| 55 X 2 X 0.25                | 20.4                  | 263.6                     | 565                        |
| 61 X 2 X 0.25                | 21.4                  | 292.3                     | 619                        |



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### MULTIPAIR CONTROL CABLE - LIYY

| Conductor: 0.34mm <sup>2</sup> |                       |                           |                            |
|--------------------------------|-----------------------|---------------------------|----------------------------|
| Size<br>Nr X mm <sup>2</sup>   | Approx.<br>O.D.<br>mm | Copper<br>Weight<br>kg/km | Approx.<br>Weight<br>kg/km |
| 1 X 2 X 0.34                   | 4.1                   | 6.7                       | 22                         |
| 2 X 2 X 0.34                   | 6.0                   | 13.3                      | 39                         |
| 3 X 2 X 0.34                   | 7.0                   | 20.0                      | 57                         |
| 4 X 2 X 0.34                   | 7.6                   | 26.6                      | 70                         |
| 5 X 2 X 0.34                   | 8.0                   | 33.3                      | 84                         |
| 6 X 2 X 0.34                   | 8.7                   | 39.9                      | 97                         |
| 7 X 2 X 0.34                   | 9.7                   | 46.6                      | 122                        |
| 8 X 2 X 0.34                   | 10.2                  | 53.2                      | 136                        |
| 10 X 2 X 0.34                  | 11.2                  | 66.6                      | 164                        |
| 11 X 2 X 0.34                  | 12.1                  | 73.2                      | 191                        |
| 12 X 2 X 0.34                  | 12.6                  | 79.9                      | 205                        |
| 14 X 2 X 0.34                  | 13.4                  | 93.2                      | 234                        |
| 15 X 2 X 0.34                  | 13.8                  | 99.8                      | 248                        |
| 16 X 2 X 0.34                  | 14.2                  | 106.5                     | 261                        |
| 18 X 2 X 0.34                  | 14.9                  | 119.8                     | 289                        |
| 20 X 2 X 0.34                  | 15.6                  | 133.1                     | 316                        |
| 22 X 2 X 0.34                  | 16.3                  | 146.4                     | 344                        |
| 24 X 2 X 0.34                  | 16.9                  | 159.7                     | 371                        |
| 25 X 2 X 0.34                  | 17.6                  | 166.4                     | 404                        |
| 26 X 2 X 0.34                  | 17.9                  | 173.1                     | 417                        |
| 27 X 2 X 0.34                  | 18.2                  | 179.7                     | 431                        |
| 28 X 2 X 0.34                  | 18.5                  | 186.4                     | 445                        |
| 30 X 2 X 0.34                  | 19.1                  | 199.7                     | 472                        |
| 32 X 2 X 0.34                  | 19.6                  | 213.0                     | 499                        |
| 34 X 2 X 0.34                  | 20.1                  | 226.3                     | 526                        |
| 36 X 2 X 0.34                  | 20.6                  | 239.6                     | 553                        |
| 38 X 2 X 0.34                  | 21.1                  | 252.9                     | 580                        |
| 40 X 2 X 0.34                  | 21.6                  | 266.2                     | 607                        |
| 44 X 2 X 0.34                  | 23.0                  | 292.9                     | 685                        |
| 45 X 2 X 0.34                  | 23.2                  | 299.5                     | 699                        |
| 50 X 2 X 0.34                  | 24.3                  | 332.8                     | 766                        |
| 52 X 2 X 0.34                  | 24.7                  | 346.1                     | 793                        |
| 55 X 2 X 0.34                  | 25.4                  | 366.1                     | 833                        |
| 61 X 2 X 0.34                  | 26.5                  | 406.0                     | 913                        |

| Conductor: 0.5mm <sup>2</sup> |                       |                           |                            |
|-------------------------------|-----------------------|---------------------------|----------------------------|
| Size<br>Nr X mm <sup>2</sup>  | Approx.<br>O.D.<br>mm | Copper<br>Weight<br>kg/km | Approx.<br>Weight<br>kg/km |
| 1 X 2 X 0.5                   | 4.5                   | 9.7                       | 27                         |
| 2 X 2 X 0.5                   | 6.7                   | 19.5                      | 52                         |
| 3 X 2 X 0.5                   | 7.6                   | 29.2                      | 70                         |
| 4 X 2 X 0.5                   | 8.2                   | 38.9                      | 88                         |
| 5 X 2 X 0.5                   | 8.7                   | 48.7                      | 105                        |
| 6 X 2 X 0.5                   | 9.8                   | 58.4                      | 134                        |
| 7 X 2 X 0.5                   | 10.5                  | 68.2                      | 153                        |
| 8 X 2 X 0.5                   | 11.1                  | 77.9                      | 171                        |
| 10 X 2 X 0.5                  | 12.6                  | 97.4                      | 221                        |
| 11 X 2 X 0.5                  | 13.1                  | 107.1                     | 240                        |
| 12 X 2 X 0.5                  | 13.6                  | 116.8                     | 258                        |
| 14 X 2 X 0.5                  | 14.6                  | 136.3                     | 295                        |
| 15 X 2 X 0.5                  | 15.0                  | 146.0                     | 313                        |
| 16 X 2 X 0.5                  | 15.4                  | 155.8                     | 331                        |
| 18 X 2 X 0.5                  | 16.2                  | 175.3                     | 366                        |
| 20 X 2 X 0.5                  | 17.0                  | 194.7                     | 402                        |
| 22 X 2 X 0.5                  | 18.1                  | 214.2                     | 457                        |
| 24 X 2 X 0.5                  | 18.8                  | 233.7                     | 493                        |
| 25 X 2 X 0.5                  | 19.2                  | 243.4                     | 511                        |
| 26 X 2 X 0.5                  | 19.5                  | 253.2                     | 529                        |
| 27 X 2 X 0.5                  | 19.8                  | 262.9                     | 547                        |
| 28 X 2 X 0.5                  | 20.1                  | 272.6                     | 565                        |
| 30 X 2 X 0.5                  | 20.8                  | 292.1                     | 600                        |
| 32 X 2 X 0.5                  | 21.4                  | 311.6                     | 635                        |
| 34 X 2 X 0.5                  | 21.9                  | 331.0                     | 671                        |
| 36 X 2 X 0.5                  | 22.9                  | 350.5                     | 731                        |
| 38 X 2 X 0.5                  | 23.5                  | 370.0                     | 767                        |
| 40 X 2 X 0.5                  | 24.0                  | 389.5                     | 802                        |
| 44 X 2 X 0.5                  | 25.0                  | 428.4                     | 873                        |
| 45 X 2 X 0.5                  | 25.3                  | 438.1                     | 890                        |
| 50 X 2 X 0.5                  | 26.5                  | 486.8                     | 978                        |
| 52 X 2 X 0.5                  | 27.0                  | 506.3                     | 1013                       |
| 55 X 2 X 0.5                  | 27.6                  | 535.5                     | 1065                       |
| 61 X 2 X 0.5                  | 29.0                  | 593.9                     | 1170                       |

