



TEKAB

## MULTIPAIR PE INSULATED, INDIVIDUALLY SCREENED & OVERALL BRAIDED CABLES Li-2Y-CY-PiMF

### DESCRIPTION

- **Conductor:** Flexible copper class 5 to IEC 60228
- **Insulation:** PE type L/MD to BS 7878
- **Pairing:** two insulated conductors twisted together to form a pair
- **Screen:** each pair individually screened with Alu/Pet foil + tinned copper drain wire (0.5 mm<sup>2</sup>)
- **Assembly:** pairs assembled in concentric layers with overall polyester foil
- **Overall Screen:** tinned copper braid 85% coverage
- **Jacket:** overall PVC type TM1 to BS 7655

**SPECIFICATION:** Generally to VDE series 800

### CHARACTERISTICS

- Test Voltage: 1000Vac - 1min.
- Spark Test: 4 kv
- Rated Voltage : 0.50 - 0.75 mm<sup>2</sup>: 300V  
1.0 - 1.50 mm<sup>2</sup>: 500V
- Rated Temperature: 70°C
- Min. **Insulation Resistance** at 20°C  
Core to Core: 5 GΩ.km  
Screen to Screen: 1MΩ.km
- Max. **Mutual Capacitance** at 1kHz: 115 pF/m
- **Conductor Resistance:** refer to technical section

#### 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 |
|------------------------------|-----------------------|---------------------------|----------------------------|
| 2 X 2 X 0.5                  | 7.9                   | 79.5                      | 133                        |
| 3 X 2 X 0.5                  | 9.7                   | 110.4                     | 194                        |
| 4 X 2 X 0.5                  | 10.6                  | 117.9                     | 216                        |
| 6 X 2 X 0.5                  | 13.2                  | 204.4                     | 352                        |
| 8 X 2 X 0.5                  | 14.0                  | 231.4                     | 401                        |
| 10 X 2 X 0.5                 | 16.6                  | 266.6                     | 473                        |
| 12 X 2 X 0.5                 | 17.6                  | 280.0                     | 525                        |
| 14 X 2 X 0.5                 | 18.7                  | 342.7                     | 618                        |
| 16 X 2 X 0.5                 | 19.6                  | 399.7                     | 702                        |

#### Conductor: 0.75mm<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 |
|------------------------------|-----------------------|---------------------------|----------------------------|
| 2 X 2 X 0.75                 | 9.2                   | 92.5                      | 167                        |
| 3 X 2 X 0.75                 | 10.4                  | 132.6                     | 225                        |
| 4 X 2 X 0.75                 | 11.5                  | 148.9                     | 258                        |
| 6 X 2 X 0.75                 | 14.3                  | 222.7                     | 387                        |
| 8 X 2 X 0.75                 | 15.2                  | 261.7                     | 451                        |
| 10 X 2 X 0.75                | 18.6                  | 357.4                     | 615                        |
| 12 X 2 X 0.75                | 19.3                  | 417.6                     | 702                        |
| 14 X 2 X 0.75                | 20.4                  | 448.5                     | 761                        |
| 16 X 2 X 0.75                | 21.4                  | 475.9                     | 815                        |

#### Conductor: 1mm<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 |
|------------------------------|-----------------------|---------------------------|----------------------------|
| 2 X 2 X 1                    | 9.7                   | 120.4                     | 201                        |
| 3 X 2 X 1                    | 11.1                  | 151.0                     | 251                        |
| 4 X 2 X 1                    | 12.8                  | 203.9                     | 341                        |
| 6 X 2 X 1                    | 15.3                  | 262.1                     | 441                        |
| 8 X 2 X 1                    | 16.2                  | 314.0                     | 521                        |
| 10 X 2 X 1                   | 20.0                  | 425.6                     | 710                        |
| 12 X 2 X 1                   | 20.6                  | 494.5                     | 805                        |
| 14 X 2 X 1                   | 21.8                  | 538.2                     | 879                        |

#### Conductor: 1.5mm<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 |
|------------------------------|-----------------------|---------------------------|----------------------------|
| 2 X 2 X 1.5                  | 11.6                  | 144.8                     | 248                        |
| 3 X 2 X 1.5                  | 13.8                  | 222.2                     | 373                        |
| 4 X 2 X 1.5                  | 15.3                  | 256.2                     | 435                        |
| 6 X 2 X 1.5                  | 18.9                  | 403.0                     | 665                        |
| 8 X 2 X 1.5                  | 20.1                  | 480.1                     | 788                        |