



## SIWO-KUL B10

|                            |  |
|----------------------------|--|
| <b>Applications:</b>       | Suitable where high flexibility is required and high temperature conditions exist. Connection cable for machines, motors and generators. Thanks to its good antifriction properties and abrasion resistance it is also well suited for shipbuilding.   |
| <b>Conductors:</b>         | Tinned flexible copper to IEC60228 Class 5   |
| <b>Tape:</b>               | semi-conductor tape, silicone rubber insulated, polyester tape   |
| <b>Braid:</b>              | Protective synthetic yarn braiding   |
| <b>Sheath/Jacket:</b>      | Varnished sheath   |
| <b>Colour:</b>             | Black  |
| <b>Voltage:</b>            | 13.8/15 kV   |
| <b>Temperature:</b>        | -60 to +180°C  |
| <b>Min bending radius:</b> | 5 x overall diameter   |
| <b>Designation:</b>        | SI Insulation<br>W Temperature resistance<br>O Oil resistance<br>K Protective braid<br>UL Varnish coating  |
| <b>Standards:</b>          | Fire Endurance: Test according to IEC331 and VDE 0472 part 814, at rated voltage, show a function time of at least 30 minutes<br>Fire Propagation: IEC 60332-3, IEEE 383<br>Rail car wiring approval: French specification: NFF16.101, BF1 approved<br>Dielectric Strength: UIC 895, BS6195 Type 5, voltage categories C, D, E and F<br>Type Approvals: Lloyds Register & Bureau Veritas |

| Section<br>mm <sup>2</sup> | Construction<br>mm | Diameter<br>mm | Overall<br>Diameter<br>approx.<br>mm | Weight<br>approx.<br>kg/km | Conductor<br>resistance<br>at 20°<br>(/km) | Current<br>rating at<br>60°C (A) | Current<br>rating at<br>90°C (A) | Short<br>circuit<br>at 90°C<br>(kA) | BATT<br>part<br>number |
|----------------------------|--------------------|----------------|--------------------------------------|----------------------------|--|----------------------------------|----------------------------------|-------------------------------------|------------------------|
| 6                          | 0.3                | 2.8            | 11.1                                 | 158                        | 3.39                                       | 75                               | 65                               | 0.86                                | -                      |
| 10                         | 0.4                | 3.8            | 12.1                                 | 205                        | 1.95                                       | 110                              | 95                               | 1.43                                | 23095                  |
| 16                         | 0.4                | 5.6            | 14.0                                 | 288                        | 1.24                                       | 165                              | 145                              | 2.30                                | 23129                  |
| 25                         | 0.4                | 7.1            | 15.6                                 | 390                        | 0.795                                      | 200                              | 175                              | 3.60                                | 23069                  |
| 35                         | 0.4                | 8.3            | 16.7                                 | 497                        | 0.565                                      | 265                              | 225                              | 5.00                                | 23113                  |
| 50                         | 0.4                | 10.1           | 18.7                                 | 655                        | 0.393                                      | 285                              | 285                              | 7.20                                | 23117                  |
| 70                         | 0.5                | 12.1           | 20.7                                 | 864                        | 0.277                                      | 355                              | 355                              | 10.0                                | 23081                  |
| 95                         | 0.5                | 13.9           | 22.5                                 | 1093                       | 0.210                                      | 435                              | 435                              | 13.6                                | 23117                  |
| 120                        | 0.5                | 15.7           | 24.3                                 | 1340                       | 0.164                                      | 485                              | 485                              | 17.2                                | 23115                  |
| 150                        | 0.5                | 17.6           | 26.7                                 | 1646                       | 0.132                                      | 540                              | 540                              | 21.5                                | 23098                  |
| 185                        | 0.5                | 19.6           | 28.7                                 | 1975                       | 0.108                                      | 595                              | 595                              | 265.5                               | 23106                  |
| 240                        | 0.5                | 21.8           | 31.0                                 | 2485                       | 0.0817                                     | 670                              | 670                              | 34.3                                | 23110                  |