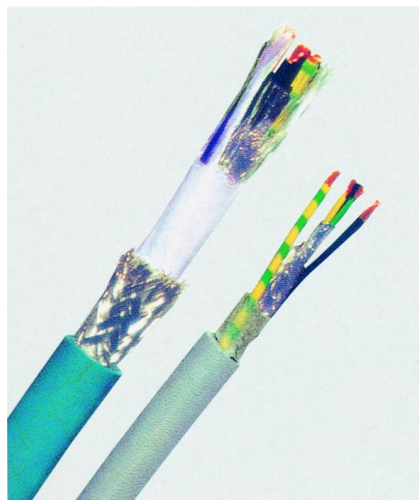


## SL 800 SL 801 C

## Combined Composite Connection Cable with PUR Outer Sheath



### Construction

Very fine-stranded bare copper conductors according to VDE 0295 class 6, core insulation of TPE-E (thermoplastic polyester elastomer), there is a green-yellow core, all the other cores are black with consecutive white numbers according to VDE 0293, control conductors 0,75 mm<sup>2</sup> and 1,0 mm<sup>2</sup> are stranded in pairs, each pair is screened with aluminium foil and tinned copper drain wire 0,14 mm<sup>2</sup> and braided with tinned copper wires and wrapped in PETP-foil, the screened control pairs and the supply conductors are stranded in layers, wrapping of fine cotton binding, for the type SL 801 C an additional screen of tinned copper braiding, outer sheath of polyurethane according to VDE 0250 part 407 with rough surface, grey (RAL 7000), oil and abrasion resistant.

### Application

This cable is well suited for flexible use in industries such as industrial robots, cable chains or machine and plant engineering. It is used for high mechanical stress in dry, damp and wet locations as well as at low temperatures as a connection cable for the power supply and as a signal and data cable for the steering and control of motors.

### Temperature range

In motion - 40°C till + 70°C  
For fixed installation - 50°C till + 70°C

### Minimum bending radius

12 x overall diameter

| Number of cores and<br>nominal cross section<br>mm <sup>2</sup> | Price<br>EUR / km | Copper<br>figure<br>kg / km | Largest single<br>wire diameter<br>mm | Overall<br>diameter<br>ca. mm | Weight<br>ca.<br>kg / km |
|-----------------------------------------------------------------|-------------------|-----------------------------|---------------------------------------|-------------------------------|--------------------------|
| <b>SL 800</b>                                                   |                   |                             |                                       |                               |                          |
| 4 x 0,75 + 2 x (2x0,34)                                         | 13.048,80         | 68                          | 0,16/0,11                             | 10,5                          | 121                      |
| 4 x 1,50 + 2 x (2x0,75)                                         | 15.946,60         | 122                         | 0,16                                  | 11,6                          | 178                      |
| 4 x 2,50 + 2 x (2x0,75)                                         | 19.064,90         | 162                         | 0,16                                  | 13,7                          | 244                      |
| 4 x 4,00 + (2x0,75) + (2x1)                                     | 21.996,60         | 229                         | 0,16                                  | 15,6                          | 352                      |
| 4 x 6,00 + (2x0,75) + (2x1)                                     | 24.763,90         | 309                         | 0,21/0,16                             | 18,3                          | 473                      |
| 4 x 10,00 + (2x0,75) + (2x1)                                    | 35.848,40         | 469                         | 0,21/0,16                             | 22,1                          | 685                      |
| 4 x 16,00 + 2 x (2x1)                                           | 45.831,90         | 716                         | 0,21/0,16                             | 25,2                          | 993                      |
| 4 x 25,00 + 2 x (2 x 1,5)                                       | 58.291,60         | 1100                        | 0,21/0,16                             | 29,9                          | 1418                     |
| 4 x 35,00 + 2 x (2 x 1,5)                                       | 74.171,10         | 1500                        | 0,21/0,16                             | 34,3                          | 1895                     |
| <b>SL 801 C</b>                                                 |                   |                             |                                       |                               |                          |
| 4 x 0,75 + 2 x (2x0,34)                                         | 13.012,30         | 126                         | 0,16/0,11                             | 11,9                          | 176                      |
| 4 x 1,50 + 2 x (2x0,75)                                         | 17.559,00         | 194                         | 0,16                                  | 14,9                          | 268                      |
| 4 x 2,50 + 2 x (2x0,75)                                         | 20.987,70         | 235                         | 0,16                                  | 15,3                          | 312                      |
| 4 x 4,00 + 2 x (2x1)                                            | 25.331,20         | 344                         | 0,16                                  | 17,3                          | 445                      |
| 4 x 6,00 + 2 x (2x1)                                            | 28.707,10         | 451                         | 0,21/0,16                             | 19,3                          | 589                      |
| 4 x 10,00 + 2 x (2x1)                                           | 42.026,10         | 624                         | 0,21/0,16                             | 23,4                          | 804                      |
| 4 x 16,00 + 2 x (2x1)                                           | 52.918,00         | 904                         | 0,21/0,16                             | 27,0                          | 1134                     |
| 4 x 25,00 + 2 x (2 x 1,5)                                       | 69.021,00         | 1307                        | 0,21/0,16                             | 31,2                          | 1576                     |
| 4 x 35,00 + 2 x (2 x 1,5)                                       | 106.501,60        | 1748                        | 0,21/0,16                             | 35,8                          | 2079                     |

**SL 802 C**  
**SL 803 C**

**Motor Feedback Cable with PUR Outer Sheath**  
**Incremental Transmission Cable with PUR Outer Sheath**



**Construction**

Very fine-stranded bare copper conductors according to VDE 0295 class 6, core insulation of TPE-E (thermoplastic polyester elastomer), cores are colour-coded, the motor feedback cable is stranded in layers, the incremental transmission cable is stranded in layers resp. in pairs, pairs are layered together, wrapping of cotton binding tape, screen of tinned copper braiding with copper drain wire 0,14 mm<sup>2</sup>, another wrapping of fine cotton binding, outer sheath of polyurethane with rough surface, grey (RAL 7000), oil and abrasion resistant.

**Application**

These cables are used as highly flexible connection cables in speedo meters, brakes and pulse generators in machine and plant engineering. Moreover, they are well suited for flexible use in industrial robots and cable chains for extreme mechanical stress, also in dry, damp and wet locations as well as at low temperatures. These two types show different characteristics in relation to the steering of servo-motors. The motor feedback cable is used to regulate motor speed and indicate actual values. The incremental transmission cable controls positioning and processing.

**Temperature range**

In motion - 40°C till + 70°C  
For fixed installation - 50°C till + 70°C

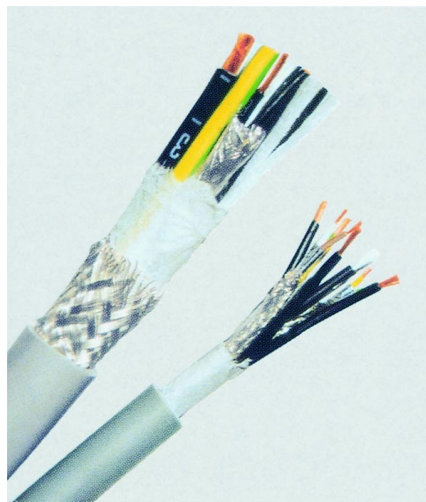
**Minimum bending radius**

FBL 10 x overall diameter  
IGL 12 x overall diameter

| Number of cores and nominal cross section mm <sup>2</sup> | Price EUR / km | Copper figure kg / km | Largest single wire diameter mm | Overall diameter ca. mm | Weight ca. kg / km |
|-----------------------------------------------------------|----------------|-----------------------|---------------------------------|-------------------------|--------------------|
| <b>SL 802 C 500 V</b>                                     |                |                       |                                 |                         |                    |
| 9 x 0,5                                                   | 10.302,60      | 72                    | 0,16                            | 8,6                     | 109                |
| <b>SL 803 C 350 V</b>                                     |                |                       |                                 |                         |                    |
| 4 x 2 x 0,25 + 2 x 1,0                                    | 10.154,80      | 69                    | 0,11/0,16                       | 8,6                     | 102                |
| 4 x 2 x 0,14 + 4 x 0,5                                    | 10.454,90      | 58                    | 0,11/0,16                       | 8,4                     | 91                 |
| 4 x 2 x 0,38 + 4 x 0,5                                    | 11.400,90      | 82                    | 0,11/0,16                       | 9,3                     | 117                |
| 10 x 0,14 + 2 x 0,5                                       | 9.073,00       | 48                    | 0,11/0,16                       | 7,6                     | 77                 |
| 10 x 0,14 + 4 x 0,5                                       | 10.539,00      | 60                    | 0,11/0,16                       | 8,2                     | 93                 |
| 15 x 0,14 + 4 x 0,5                                       | 11.787,40      | 68                    | 0,11/0,16                       | 8,4                     | 99                 |
| 3 x (2 x 0,14 C) + 2 x 1                                  | 10.852,80      | 84                    | 0,11/0,16                       | 9,1                     | 107                |
| 3 x (2 x 0,14 C) + 2 x (0,5 C)                            | 11.954,60      | 91                    | 0,11/0,16                       | 9,3                     | 113                |
| 3 x (2 x 0,14 C) + 3 x 2 x 0,25                           | 13.452,20      | 82                    | 0,11/0,16                       | 9,8                     | 118                |

**SL 805  
SL 806 C**

**Combined Composite Connection Cable  
with PVC Outer Sheath**



**Construction**

Fine-stranded bare copper conductors according to VDE 0295 class 5, core insulation of the control conductors is of polyethylene and of the supply cores is of PVC, there is a green-yellow core, all the other cores are black with consecutive white numbers according to VDE 0293, control conductors 0,75 mm<sup>2</sup> and 1,0 mm<sup>2</sup> are stranded in pairs, each pair is screened with aluminium foil and tinned copper drain wire 0,14 mm<sup>2</sup>, braided with tinned copper wires and wrapped with PETP-foil, the screened control pairs and the supply conductors are stranded in layers, wrapping of fine cotton binding, for the type SL 806 C an additional screen of tinned copper braiding, outer sheath of PVC, grey (RAL 7000), increased oil resistant.

**Application**

This cable is well suited for flexible use in machine and plant engineering. It is used for medium-level mechanical stress in dry, damp and wet locations. It serves as a connection cable for the power supply and as a signal and data cable for the steering and control of motors.

**Temperature range**

In motion - 5°C till + 70°C  
For fixed installation - 30°C till + 70°C

**Minimum bending radius**

12 x overall diameter

| Number of cores and<br>nominal cross section<br>mm <sup>2</sup> | Price<br>EUR / km | Copper<br>figure<br>kg / km | Largest single<br>wire diameter<br>mm | Overall<br>diameter<br>ca. mm | Weight<br>ca.<br>kg / km |
|-----------------------------------------------------------------|-------------------|-----------------------------|---------------------------------------|-------------------------------|--------------------------|
| <b>SL 805 500 V</b>                                             |                   |                             |                                       |                               |                          |
| 4 x 0,75 + 2 x (2x0,34)                                         | 7.594,90          | 72                          | 0,21/0,16                             | 11,4                          | 154                      |
| 4 x 1,50 + 2 x (2x0,75)                                         | 9.969,60          | 126                         | 0,26/0,21                             | 12,4                          | 217                      |
| 4 x 2,50 + 2 x (2x0,75)                                         | 10.978,90         | 166                         | 0,26/0,21                             | 15,0                          | 294                      |
| 4 x 4,00 + (2x0,75) + (2x1)                                     | 12.671,70         | 232                         | 0,31/0,21                             | 15,7                          | 388                      |
| 4 x 6,00 + (2x0,75) + (2x1)                                     | 15.279,30         | 312                         | 0,31/0,21                             | 16,8                          | 475                      |
| 4 x 10,00 + (2x0,75) + (2x1)                                    | 21.787,60         | 472                         | 0,41/0,21                             | 22,4                          | 780                      |
| 4 x 16,00 + 2 x (2x1)                                           | 29.144,20         | 717                         | 0,41/0,21                             | 25,4                          | 1068                     |
| 4 x 25,00 + 2 x (2x1)                                           | 40.967,10         | 1104                        | 0,41/0,21                             | 29,8                          | 1594                     |
| 4 x 35,00 + 2 x (2x1,5)                                         | 60.542,60         | 1504                        | 0,41/0,26                             | 33,9                          | 2106                     |
| <b>SL 806 C 500 V</b>                                           |                   |                             |                                       |                               |                          |
| 4 x 0,75 + 2 x (2x0,34)                                         | 9.613,30          | 131                         | 0,21/0,16                             | 12,3                          | 192                      |
| 4 x 1,50 + 2 x (2x0,75)                                         | 11.733,00         | 187                         | 0,26/0,21                             | 13,3                          | 251                      |
| 4 x 2,50 + 2 x (2x0,75)                                         | 13.056,70         | 240                         | 0,26/0,21                             | 15,8                          | 338                      |
| 4 x 4,00 + 2 x (2x1)                                            | 15.185,70         | 343                         | 0,31/0,21                             | 16,8                          | 454                      |
| 4 x 6,00 + 2 x (2x1)                                            | 17.853,50         | 427                         | 0,31/0,21                             | 17,9                          | 541                      |
| 4 x 10,00 + 2 x (2x1)                                           | 19.652,90         | 625                         | 0,41/0,21                             | 23,5                          | 854                      |
| 4 x 16,00 + 2 x (2x1)                                           | 34.650,90         | 902                         | 0,41/0,21                             | 26,5                          | 1152                     |
| 4 x 25,00 + 2 x (2x1,5)                                         | 48.343,30         | 1310                        | 0,41/0,26                             | 30,9                          | 1669                     |
| 4 x 35,00 + 2 x (2x1,5)                                         | 78.104,40         | 1748                        | 0,41/0,26                             | 35,0                          | 2309                     |