

# A2-1 Selection tables



Cables for use in power chains – Bending cycles and operation parameters

| Cable product                | Performance | Travel  | Acceleration | Speed                    |                      | Temperature range |          | Bending cycles at minimum bending radius/travel distance<br>(factor x cable diameter) |        |        |        |        |        |        |        |         |  |
|------------------------------|-------------|---------|--------------|--------------------------|----------------------|-------------------|----------|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|--|
|                              | Class/Line  | up to m | up to m/s²   | Unsupported<br>up to m/s | Sliding<br>up to m/s | from<br>°C        | to<br>°C | 2 Mio.                                                                                |        | 3 Mio. |        | 5 Mio. |        | 7 Mio. |        | 10 Mio. |  |
|                              |             |         |              |                          |                      |                   |          | < 10 m                                                                                | < 10 m | > 10 m | < 10 m | > 10 m | < 10 m | > 10 m | < 10 m | > 10 m  |  |
| ÖLFLEX® CHAIN<br>809 SC      | Basic       | 10      | 5            | 3                        | 3                    | 0                 | ≤ 15     | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     | 10                                                                                    | 12     |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
| ÖLFLEX® CHAIN<br>809 SC CY   | Basic       | 10      | 5            | 3                        | 3                    | 0                 | ≤ 15     | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     | 10                                                                                    | 12     |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
| ÖLFLEX® CHAIN<br>809         | Basic       | 10      | 5            | 3                        | 3                    | 0                 | ≤ 15     | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     | 10                                                                                    | 12     |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
| ÖLFLEX® CHAIN<br>809 CY      | Basic       | 10      | 5            | 3                        | 3                    | 0                 | ≤ 15     | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     | 10                                                                                    | 12     |        |        |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       | 12                                                                                    | 14,5   |        |        |        |        |        |        |         |  |
| ÖLFLEX® CHAIN<br>819 P       | Basic       | 10      | 5            | 5                        | 3                    | -5                | ≤ 15     | 12,5                                                                                  | 15     |        | 19,5   |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     | 10                                                                                    | 12     |        | 15     |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       | 12                                                                                    | 14,5   |        | 19     |        |        |        |        |         |  |
| ÖLFLEX® CHAIN<br>819 CP      | Basic       | 10      | 5            | 5                        | 3                    | -5                | ≤ 15     | 12,5                                                                                  | 15     |        | 19,5   |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     | 10                                                                                    | 12     |        | 15     |        |        |        |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       | 12                                                                                    | 14,5   |        | 19     |        |        |        |        |         |  |
| ÖLFLEX®<br>FD 90             | Core        | 20      | 20           | 10                       | 5                    | -5                | ≤ 15     |                                                                                       | 9,5    | 12     | 10,5   | 13     | 13     | 16,5   |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
| ÖLFLEX®<br>FD 90 CY          | Core        | 20      | 20           | 10                       | 5                    | -5                | ≤ 15     |                                                                                       | 9,5    | 12     | 10,5   | 13     | 13     | 16,5   |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
| ÖLFLEX® CLASSIC<br>FD 810    | Core        | 20      | 20           | 10                       | 5                    | 0                 | ≤ 15     |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
| ÖLFLEX® CLASSIC<br>FD 810 CY | Core        | 20      | 20           | 10                       | 5                    | 0                 | ≤ 15     |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
| ÖLFLEX®<br>FD 891            | Core        | 20      | 20           | 10                       | 5                    | -5                | ≤ 15     |                                                                                       | 9,5    | 12     | 10,5   | 13     | 13     | 16,5   |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
| ÖLFLEX®<br>FD 891 CY         | Core        | 20      | 20           | 10                       | 5                    | -5                | ≤ 15     |                                                                                       | 9,5    | 12     | 10,5   | 13     | 13     | 16,5   |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
| ÖLFLEX® CHAIN<br>TM          | Core        | 20      | 20           | 10                       | 5                    | -25               | ≤ 5      |                                                                                       | 10     | 12,5   | 11     | 13,5   | 13,5   | 17     |        |         |  |
|                              |             |         |              |                          |                      | > 5               | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |  |
| ÖLFLEX® CHAIN<br>TM CY       | Core        | 20      | 20           | 10                       | 5                    | -25               | ≤ 5      |                                                                                       | 13     | 16,5   | 15     | 19     | 19     | 23,5   |        |         |  |
|                              |             |         |              |                          |                      | > 5               | ≤ 50     |                                                                                       | 10     | 12,5   | 11,5   | 14,5   | 14     | 17,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 12     | 15     | 14     | 17,5   | 17,5   | 22     |        |         |  |
| ÖLFLEX® CLASSIC<br>FD 810 P  | Core        | 50      | 30           | 10                       | 5                    | -5                | ≤ 15     |                                                                                       | 8,5    | 11     | 10     | 12     | 12     | 15     |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 8,5    | 11     | 10     | 12     | 12     | 15     |        |         |  |
| ÖLFLEX® CLASSIC<br>FD 810 CP | Core        | 50      | 30           | 10                       | 5                    | -5                | ≤ 15     |                                                                                       | 8,5    | 11     | 10     | 12     | 12     | 15     |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 8,5    | 11     | 10     | 12     | 12     | 15     |        |         |  |
| ÖLFLEX®<br>FD 891 P          | Core        | 50      | 30           | 10                       | 5                    | -5                | ≤ 15     |                                                                                       | 8,5    | 11     | 10     | 12     | 12     | 15     |        |         |  |
|                              |             |         |              |                          |                      | > 15              | ≤ 50     |                                                                                       | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |  |
|                              |             |         |              |                          |                      | > 50              | 70       |                                                                                       | 8,5    | 11     | 10     | 12     | 12     | 15     |        |         |  |

Above listed values, factors and bending cycles are guide values and serve only as non-binding benchmark for assessment of expectable service life.  
 Stated values for travel lengths, acceleration and speed are always meant as maximum values which must not be exhausted in the very same application.  
 We reserve the right for adjustments and modifications of above mentioned values.

| Cable product                    | Performance | Travel  | Acceleration | Speed                 |                   | Temperature range |       | Bending cycles at minimum bending radius/travel distance (factor x cable diameter) |        |        |        |        |        |        |        |         |      |
|----------------------------------|-------------|---------|--------------|-----------------------|-------------------|-------------------|-------|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|------|
|                                  | Class/Line  | up to m | up to m/s²   | Unsupported up to m/s | Sliding up to m/s | from °C           | to °C | 2 Mio.                                                                             |        | 3 Mio. |        | 5 Mio. |        | 7 Mio. |        | 10 Mio. |      |
|                                  |             |         |              |                       |                   |                   |       | < 10 m                                                                             | < 10 m | > 10 m | < 10 m | > 10 m | < 10 m | > 10 m | < 10 m | > 10 m  |      |
| ÖLFLEX® CHAIN 90 P               | Extended    | 100     | 50           | 10                    | 5                 | -35               | ≤ -15 |                                                                                    |        |        |        | 9,5    | 12     | 11     | 13,5   | 13      | 16   |
| > -15                            |             |         |              |                       |                   | ≤ 60              |       |                                                                                    |        |        | 7,5    | 9,5    | 8,5    | 10,5   | 9,5    | 12      |      |
| > 60                             |             |         |              |                       |                   | 80                |       |                                                                                    |        |        | 9      | 11,5   | 10,5   | 13     | 12,5   | 15,5    |      |
| ÖLFLEX® CHAIN 90 CP              | Extended    | 100     | 50           | 10                    | 5                 | -35               | ≤ -15 |                                                                                    |        |        |        | 9,5    | 12     | 11     | 13,5   | 13      | 16   |
| > -15                            |             |         |              |                       |                   | ≤ 60              |       |                                                                                    |        |        | 7,5    | 9,5    | 8,5    | 10,5   | 9,5    | 12      |      |
| > 60                             |             |         |              |                       |                   | 80                |       |                                                                                    |        |        | 9      | 11,5   | 10,5   | 13     | 12,5   | 15,5    |      |
| ÖLFLEX® FD 855 P                 | Extended    | 100     | 50           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        |        |        | 6,5    | 8,5    | 7,5    | 9,5    | 8,5     | 10,5 |
| > -15                            |             |         |              |                       |                   | ≤ 60              |       |                                                                                    |        |        | 5      | 6,5    | 5,5    | 7      | 6      | 7,5     |      |
| > 60                             |             |         |              |                       |                   | 80                |       |                                                                                    |        |        | 6      | 8      | 7      | 9      | 8      | 10      |      |
| ÖLFLEX® FD 855 CP                | Extended    | 100     | 50           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        |        |        | 10     | 12,5   | 11,5   | 14     | 13,5    | 17   |
| > -15                            |             |         |              |                       |                   | ≤ 60              |       |                                                                                    |        |        | 7,5    | 9,5    | 8,5    | 10,5   | 9,5    | 12      |      |
| > 60                             |             |         |              |                       |                   | 80                |       |                                                                                    |        |        | 9      | 11,5   | 10,5   | 13     | 12,5   | 15,5    |      |
| ÖLFLEX® PETRO FD 865 CP          | Extended    | 100     | 50           | 10                    | 5                 | -50               | ≤ -20 |                                                                                    |        |        |        | 10     | 12,5   | 11,5   | 14     | 13,5    | 17   |
| > -20                            |             |         |              |                       |                   | ≤ 60              |       |                                                                                    |        |        | 7,5    | 9,5    | 8,5    | 10,5   | 9,5    | 12      |      |
| > 60                             |             |         |              |                       |                   | 80                |       |                                                                                    |        |        | 9      | 11,5   | 10,5   | 13     | 12,5   | 15,5    |      |
| ÖLFLEX® CHAIN 896 P ≤ 16 mm²     | Extended    | 100     | 50           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        |        |        | 10     | 12,5   | 11,5   | 14     | 13,5    | 17   |
| > -15                            |             |         |              |                       |                   | ≤ 70              |       |                                                                                    |        |        | 7,5    | 9,5    | 8,5    | 10,5   | 9,5    | 12      |      |
| > 70                             |             |         |              |                       |                   | 90                |       |                                                                                    |        |        | 9,5    | 12     | 11     | 13,5   | 13     | 16      |      |
| ÖLFLEX® CHAIN 896 P ≥ 25 mm²     | Extended    | 100     | 50           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        |        |        | 13     | 16,5   | 15     | 19     | 17      | 21   |
| > -15                            |             |         |              |                       |                   | ≤ 70              |       |                                                                                    |        |        | 10     | 12,5   | 11     | 14     | 12     | 15      |      |
| > 70                             |             |         |              |                       |                   | 90                |       |                                                                                    |        |        | 12,5   | 15,5   | 14,5   | 18     | 16     | 20,5    |      |
| ÖLFLEX® ROBUST FD                | Extended    | 100     | 80           | 10                    | 6                 | -40               | ≤ -15 |                                                                                    |        |        |        | 10     | 12,5   | 11,5   | 14     | 13,5    | 17   |
| > -15                            |             |         |              |                       |                   | ≤ 50              |       |                                                                                    |        |        | 7,5    | 9,5    | 8,5    | 10,5   | 9,5    | 12      |      |
| > 50                             |             |         |              |                       |                   | ≤ 70              |       |                                                                                    |        |        | 9      | 11,5   | 10,5   | 13     | 12,5   | 15,5    |      |
| ÖLFLEX® ROBUST FD C              | Extended    | 100     | 80           | 10                    | 6                 | -40               | ≤ -15 |                                                                                    |        |        |        | 10     | 12,5   | 11,5   | 14     | 13,5    | 17   |
| > -15                            |             |         |              |                       |                   | ≤ 50              |       |                                                                                    |        |        | 7,5    | 9,5    | 8,5    | 10,5   | 9,5    | 12      |      |
| > 50                             |             |         |              |                       |                   | ≤ 70              |       |                                                                                    |        |        | 9      | 11,5   | 10,5   | 13     | 12,5   | 15,5    |      |
| ÖLFLEX® SERVO FD 781 CY ≤ 16 mm² | Core        | 20      | 20           | 10                    | 5                 | -5                | ≤ 15  |                                                                                    |        | 9,5    | 12     | 11     | 13,5   | 13,5   | 17     |         |      |
| > 15                             |             |         |              |                       |                   | ≤ 50              |       |                                                                                    | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |      |
| > 50                             |             |         |              |                       |                   | 70                |       |                                                                                    | 9      | 11,5   | 10,5   | 13     | 13     | 16,5   |        |         |      |
| ÖLFLEX® SERVO FD 781 CY ≥ 25 mm² | Core        | 20      | 20           | 10                    | 5                 | -5                | ≤ 15  |                                                                                    |        | 10     | 12,5   | 11,5   | 15     | 15     | 19     |         |      |
| > 15                             |             |         |              |                       |                   | ≤ 50              |       |                                                                                    | 7,5    | 9,5    | 9      | 11,5   | 11     | 14     |        |         |      |
| > 50                             |             |         |              |                       |                   | 70                |       |                                                                                    | 9,5    | 12     | 11,5   | 14,5   | 14,5   | 18     |        |         |      |
| ÖLFLEX® SERVO FD 7TCE            | Core        | 20      | 20           | 10                    | 5                 | -25               | ≤ 5   |                                                                                    |        | 10     | 12,5   | 11     | 13,5   | 13,5   | 17     |         |      |
| > 5                              |             |         |              |                       |                   | ≤ 50              |       |                                                                                    | 7,5    | 9,5    | 8,5    | 10,5   | 10     | 12,5   |        |         |      |
| > 50                             |             |         |              |                       |                   | 70                |       |                                                                                    | 9      | 11,5   | 10     | 12,5   | 12,5   | 15,5   |        |         |      |
| ÖLFLEX® SERVO FD zeroCM          | Core        | 20      | 20           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        | 13     | 15,5   | 14,5   | 17,5   | 18,5   | 22     |         |      |
| > -15                            |             |         |              |                       |                   | ≤ 70              |       |                                                                                    | 10     | 12,5   | 11,5   | 14,5   | 14     | 17,5   |        |         |      |
| > 70                             |             |         |              |                       |                   | 90                |       |                                                                                    | 12     | 14     | 13,5   | 17     | 16,5   | 20,5   |        |         |      |
| ÖLFLEX® SERVO FD 796 P           | Extended    | 100     | 50           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        |        |        | 10     | 13     | 11,5   | 15     | 13,5    | 17,5 |
| > -15                            |             |         |              |                       |                   | ≤ 70              |       |                                                                                    |        |        | 7,5    | 10     | 8,5    | 11     | 9,5    | 12,5    |      |
| > 70                             |             |         |              |                       |                   | 90                |       |                                                                                    |        |        | 9,5    | 12,5   | 11     | 14,5   | 13     | 17      |      |
| ÖLFLEX® SERVO FD 796 CP ≤ 16 mm² | Extended    | 100     | 50           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        |        |        | 10     | 13     | 11,5   | 15     | 13,5    | 17,5 |
| > -15                            |             |         |              |                       |                   | ≤ 70              |       |                                                                                    |        |        | 7,5    | 10     | 8,5    | 11     | 9,5    | 12,5    |      |
| > 70                             |             |         |              |                       |                   | 90                |       |                                                                                    |        |        | 9,5    | 12,5   | 11     | 14,5   | 13     | 17      |      |
| ÖLFLEX® SERVO FD 796 CP ≥ 25 mm² | Extended    | 100     | 50           | 10                    | 5                 | -40               | ≤ -15 |                                                                                    |        |        |        | 13     | 17     | 15     | 19,5   | 17      | 21,5 |
| > -15                            |             |         |              |                       |                   | ≤ 70              |       |                                                                                    |        |        | 10     | 13     | 11     | 14,5   | 12     | 15,5    |      |
| > 70                             |             |         |              |                       |                   | 90                |       |                                                                                    |        |        | 12,5   | 16,5   | 14,5   | 19     | 16     | 21      |      |

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 We reserve the right for adjustments and modifications of above mentioned values.

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Cables for use in power chains – Bending cycles and operation parameters

|                            | Performance | Travel  | Acceleration      | Speed                    |                      | Temperature range |          | Bending cycles at minimum bending radius/travel distance<br>(factor x cable diameter) |        |        |        |        |        |        |        |         |      |
|----------------------------|-------------|---------|-------------------|--------------------------|----------------------|-------------------|----------|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|------|
|                            | Class/Line  | up to m | up to m/s²        | Unsupported<br>up to m/s | Sliding<br>up to m/s | from<br>°C        | to<br>°C | 2 Mio.                                                                                |        | 3 Mio. |        | 5 Mio. |        | 7 Mio. |        | 10 Mio. |      |
|                            |             |         |                   |                          |                      |                   |          | < 10 m                                                                                | < 10 m | > 10 m | < 10 m | > 10 m | < 10 m | > 10 m | < 10 m | > 10 m  |      |
| Cable product              |             |         |                   |                          |                      |                   |          |                                                                                       |        |        |        |        |        |        |        |         |      |
| ÖLFLEX® SERVO<br>FD 798 CP | Extended    | 100     | 50                | 10                       | 5                    | -40               | ≤-15     |                                                                                       |        |        |        | 9,5    | 12,5   | 10,5   | 14     | 13      | 17   |
|                            |             |         |                   |                          |                      | >-15              | ≤70      |                                                                                       |        |        |        | 7,5    | 10     | 8,5    | 11     | 9,5     | 12,5 |
|                            |             |         |                   |                          |                      | >70               | 90       |                                                                                       |        |        |        | 9      | 12     | 10     | 13     | 12,5    | 16,5 |
| ÖLFLEX® SERVO<br>FD 7DSL   | Extended    | 20      | 50                | 10                       | 5                    | -40               | ≤-15     |                                                                                       |        |        |        | 10     | 13     | 11,5   | 15     | 13,5    | 17,5 |
|                            |             |         |                   |                          |                      | >-15              | ≤70      |                                                                                       |        |        |        | 7,5    | 10     | 8,5    | 11     | 9,5     | 12,5 |
|                            |             |         |                   |                          |                      | >70               | 90       |                                                                                       |        |        |        | 9,5    | 12,5   | 11     | 14,5   | 13      | 17   |
| ÖLFLEX® SERVO<br>FD 7OCS   | Extended    | 20      | 50<br>30 (Type 4) | 10                       | 5                    | -40               | ≤-15     |                                                                                       |        |        |        | 10     | 13     | 11,5   | 15     | 13,5    | 17,5 |
|                            |             |         |                   |                          |                      | >-15              | ≤70      |                                                                                       |        |        |        | 7,5    | 10     | 8,5    | 11     | 9,5     | 12,5 |
|                            |             |         |                   |                          |                      | >70               | 90       |                                                                                       |        |        |        | 9,5    | 12,5   | 11     | 14,5   | 13      | 17   |

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