

## RIPCAFLEX CURRENT RATING & DUTY CYCLE

|                                                                                    |                     |
|------------------------------------------------------------------------------------|---------------------|
|  |                     |
| Cable type:                                                                        | RIPCAFLEX (HI-FLEX) |
| Working Voltage U <sub>0</sub> /U [kV]:                                            | 450/750 V           |

| Nominal size<br>[mm <sup>2</sup> ] | *Current rating for specified Percentage Duty Cycle [A] |     |     |     |
|------------------------------------|---------------------------------------------------------|-----|-----|-----|
|                                    | 100%                                                    | 30% | 20% | 10% |
| 1X10                               | 50                                                      | 91  | 111 | 158 |
| 1X16                               | 65                                                      | 118 | 145 | 205 |
| 1X20                               | 74                                                      | 135 | 165 | 234 |
| 1X25                               | 85                                                      | 155 | 190 | 268 |
| 1X35                               | 106                                                     | 193 | 237 | 335 |
| 1X40                               | 119                                                     | 217 | 266 | 376 |
| 1X50                               | 129                                                     | 235 | 288 | 407 |
| 1X60                               | 143                                                     | 261 | 319 | 452 |
| 1X70                               | 164                                                     | 299 | 366 | 518 |
| 1X95                               | 201                                                     | 366 | 449 | 635 |
| 1X120                              | 229                                                     | 418 | 512 | 724 |
| 1X150                              | 275                                                     | 502 | 614 | 869 |

\*Current rating evaluation is based on a theoretical and simplified calculation, in the following conditions:

- Max conductor operating temperature: 70°C
- Environmental temperature: 30°C
- Single cable in free air
- Current rating for repeat cycle operation based on a 1 minute repeat period:
  - Repeat cycle operation used above is defined as a periodically switched constant load with an on-load period followed by an off-load period, which is repeated. The on-load time period is expressed as a percentage of the repeat period, and is called the percentage duty cycle.

- For on-load percentage greater than 50%, consider the 100% current rating, caused by low heat dissipation between cycles:

| Correction factors for air temperature other than 30°C |      |      |      |      |      |      |
|--------------------------------------------------------|------|------|------|------|------|------|
| 0°C                                                    | 10°C | 20°C | 30°C | 40°C | 50°C | 60°C |
| 1,39                                                   | 1,27 | 1,14 | 1,00 | 0,84 | 0,66 | 0,43 |

Correction factors is based on a theoretical calculation, in the following conditions:

- Cable in free air