

| Nexans<br>Ref. Code | Formation | Electrical<br>resistance<br>@ 20°C - d.c.<br>max | Electrical<br>resistance<br>@ 90°C - a.c. | X<br>Phase Reactance<br>@ 50 Hz | C<br>Capacitance | Current capacity<br>in ground<br>@ 20°C | Current capacity<br>in air<br>@ 30°C | Short circuit<br>current<br>conductor<br>Tmax 250°C | Short circuit<br>current<br>screen<br>Tmax 150°C |
|---------------------|-----------|--|---|---------------------------------|------------------|---|--------------------------------------|---|--|
|                     |           | [Ω/km]   | [Ω/km]                                    | [Ω/km]                          | [μF/km]          | [A]                                     | [A]                                  | kA x 1s   | kA x 0,5s  |
| -                   | 1x50      | 0,641  | 0,822                                     | 0,143                           | 0,189            | 152                                     | 189                                  | 4,7   | 1,5  |
| -                   | 1x70      | 0,443  | 0,568                                     | 0,134                           | 0,221            | 185                                     | 235                                  | 6,6   | 1,6  |
| -                   | 1x95      | 0,320  | 0,411                                     | 0,126                           | 0,254            | 221                                     | 285                                  | 9,0   | 1,6  |
| -                   | 1x120     | 0,253  | 0,325                                     | 0,12                            | 0,288            | 251                                     | 330                                  | 11,3  | 1,7  |
| -                   | 1x150     | 0,206  | 0,265                                     | 0,117                           | 0,307            | 280                                     | 372                                  | 14,2  | 1,8  |
| -                   | 1x185     | 0,164  | 0,211                                     | 0,113                           | 0,333            | 317                                     | 428                                  | 17,5  | 1,8  |
| -                   | 1x240     | 0,125  | 0,161                                     | 0,108                           | 0,372            | 368                                     | 507                                  | 22,7  | 2,0  |
| -                   | 1x300     | 0,100  | 0,129                                     | 0,104                           | 0,399            | 415                                     | 581                                  | 28,3  | 2,1  |
| -                   | 1x400     | 0,0778   | 0,101                                     | 0,100                           | 0,442            | 475                                     | 678                                  | 37,8  | 2,3  |
| -                   | 1x500     | 0,0605   | 0,080                                     | 0,097                           | 0,483            | 542                                     | 790                                  | 47,2  | 2,5  |
| -                   | 1x630     | 0,0469   | 0,063                                     | 0,094                           | 0,525            | 616                                     | 918                                  | 59,5  | 2,7  |

Note  
formation: trefoil  
laying depth: 0,8 [m]  
soil thermal resistivity: 1,5 [°Cm/W]  
metallic layers connection: "solid bonding" (earthed at both ends)