






































**TECHNICAL DATA  
CURRENT RATINGS AND VOLTAGE DROP**

**TABLE 2**

| TWO SINGLE CORE V90 PVC or PVC/PVC 0.6 / 1 k V CABLES. |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |                                  |       |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|----------------------------------|-------|
| Cond. size   | Unenclosed  |   |   |   |   |   | Enclosed  |   |   |   |   |   | Buried direct   |  | Underground ducts   |   |   |   | Single phase voltage drop mV/A.m |       |
|  | Spaced  |   | Spaced from surface   |   | Touching  |   | In conduit or unenclosed  |   | partially surrounded by thermal insulation  |   | Completely surrounded by thermal insulation                                       |   |   |  |   |   |   |   |                                  |       |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                  |       |
| mm <sup>2</sup>  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al   | Cu  | Al  | Cu  | Al  | Cu                               | Al    |
| 1  | 16  |   | 16  |   | 13  |   | 13  |   | 10  |   | 6   |   | 24  |  | 18  |   | 21  |   | 51.6                             |       |
| 1.5  | 21  |   | 21  |   | 16  |   | 16  |   | 13  |   | 8   |   | 31  |  | 24  |   | 27  |   | 33.0                             |       |
| 2.5  | 30  |   | 29  |   | 23  |   | 22  |   | 18  |   | 12  |   | 43  |  | 33  |   | 37  |   | 18.0                             |       |
| 4  | 40  |   | 39  |   | 31  |   | 30  |   | 24  |   | 16  |   | 56  |  | 42  |   | 48  |   | 11.2                             |       |
| 6  | 51  |   | 49  |   | 40  |   | 38  |   | 31  |   | 20  |   | 71  |  | 53  |   | 60  |   | 7.50                             |       |
| 10   | 69  |   | 67  |   | 54  |   | 53  |   | 42  |   | 27  |   | 94  |  | 71  |   | 79  |   | 4.49                             |       |
| 16   | 92  | 71  | 89  | 68  | 72  | 55  | 71  | 57  | 57  | 45  | 36  | 28  | 120   | 95   | 91  | 70  | 100   | 78  | 2.81                             | 4.68  |
| 25   | 125   | 96  | 120   | 92  | 97  | 75  | 97  | 79  | 79  | 62  | 48  | 37  | 160   | 125  | 120   | 92  | 135   | 100   | 1.78                             | 2.95  |
| 35   | 155   | 120   | 145   | 115   | 120   | 93  | 115   | 92  | 92  | 72  | 59  | 46  | 190   | 145  | 145   | 110   | 160   | 125   | 1.29                             | 2.14  |
| 50   | 185   | 145   | 175   | 140   | 145   | 115   | 140   | 110   | 110   | 87  | -   | -   | 225   | 175  | 170   | 135   | 190   | 145   | 0.963                            | 1.582 |
| 70   | 240   | 185   | 225   | 175   | 185   | 145   | 175   | 140   | 140   | 110   | -   | -   | 275   | 215  | 210   | 165   | 235   | 180   | 0.680                            | 1.100 |
| 95   | 295   | 230   | 275   | 215   | 230   | 180   | 210   | 165   | 165   | 130   | -   | -   | 330   | 255  | 260   | 200   | 285   | 220   | 0.507                            | 0.804 |
| 120  | 345   | 270   | 320   | 250   | 265   | 210   | 250   | 195   | 195   | 155   | -   | -   | 380   | 295  | 295   | 230   | 320   | 250   | 0.415                            | 0.644 |
| 150  | 395   | 305   | 365   | 285   | 310   | 240   | 280   | 225   | 225   | 175   | -   | -   | 425   | 330  | 335   | 260   | 360   | 285   | 0.352                            | 0.535 |
| 185  | 460   | 355   | 425   | 330   | 360   | 280   | 325   | 255   | 255   | 200   | -   | -   | 480   | 375  | 380   | 300   | 415   | 325   | 0.301                            | 0.439 |
| 240  | 550   | 425   | 510   | 395   | 430   | 335   | 385   | 305   | 300   | 235   | -   | -   | 560   | 435  | 450   | 350   | 480   | 380   | 0.255                            | 0.352 |
| 300  | 640   | 495   | 580   | 455   | 495   | 385   | -   | -   | -   | -   | -   | -   | 630   | 490  | 510   | 400   | 560   | 430   | 0.229                            | 0.300 |
| 400  | 740   | 580   | 680   | 530   | 580   | 455   | -   | -   | -   | -   | -   | -   | 710   | 560  | 590   | 465   | 630   | 500   | 0.209                            | 0.256 |
| 500  | 870   | 670   | 780   | 620   | 670   | 530   | -   | -   | -   | -   | -   | -   | 800   | 640  | 670   | 530   | 730   | 570   | 0.194                            | 0.226 |
| 630  | 1010  | 790   | 900   | 730   | 770   | 630   | -   | -   | -   | -   | -   | -   | 900   | 740  | 770   | 620   | 830   | 660   | 0.181                            | 0.202 |

















**TECHNICAL DATA  
CURRENT RATINGS AND VOLTAGE DROP**

**TABLE 3**

| TWO SINGLE CORE XLPE/PVC 90° 0.6 / 1 k V CABLES. |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|----|
| Cond. size                                       | Unenclosed  |   |   |   |   |   | Enclosed  |   |   |   |   |   | Buried direct   |  | Underground non-metallic wiring enclosure   |   |   |   |   |    |
|  | Spaced  |   | Spaced from surface   |   | Touching  |   | In non-metallic wiring unenclosed   |   | partially surrounded by thermal insulation  |   | Completely surrounded by thermal insulation   |   |   |  |   |   |   |   |   |    |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| mm <sup>2</sup>                                  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al   | Cu  | Al  | Cu  | Al  | Cu  | Al |
| 1  | 20  | -   | 20  | -   | 16  | -   | 16  | 12  | 14  | 11  | 8   | -   | 28  | -  | 21  | -   | 24  | -   | -   | -  |
| 1.5  | 26  | -   | 25  | -   | 20  | -   | 20  | 16  | 17  | 13  | 10  | -   | 36  | -  | 27  | -   | 31  | -   | -   | -  |
| 2.5  | 36  | -   | 36  | -   | 28  | -   | 28  | 22  | 24  | 19  | 14  | -   | 50  | -  | 37  | -   | 42  | -   | -   | -  |
| 4  | 48  | -   | 47  | -   | 37  | -   | 37  | 30  | 32  | 25  | 19  | -   | 64  | -  | 48  | -   | 55  | -   | -   | -  |
| 6  | 61  | -   | 60  | -   | 47  | -   | 47  | 39  | 40  | 32  | 24  | -   | 80  | -  | 60  | -   | 68  | -   | -   | -  |
| 10   | 84  | -   | 82  | -   | 65  | -   | 65  | 54  | 56  | 44  | 32  | -   | 105   | -  | 80  | -   | 90  | -   | -   | -  |
| 16   | 110   | 87  | 110   | 84  | 86  | 67  | 86  | 67  | 74  | 58  | 43  | 33  | 140   | 105  | 105   | 80  | 115   | 89  | -   | -  |
| 25   | 150   | 115   | 145   | 110   | 115   | 91  | 115   | 91  | 100   | 81  | 58  | 45  | 180   | 140  | 135   | 105   | 150   | 115   | -   | -  |
| 35   | 185   | 145   | 175   | 135   | 145   | 110   | 145   | 110   | 120   | 94  | 72  | 56  | 215   | 165  | 160   | 125   | 180   | 140   | -   | -  |
| 50   | 230   | 175   | 215   | 165   | 175   | 135   | 175   | 135   | 145   | 115   | -   | -   | 255   | 200  | 195   | 150   | 215   | 165   | -   | -  |
| 70   | 290   | 225   | 275   | 210   | 225   | 175   | 220   | 175   | 180   | 140   | -   | -   | 315   | 245  | 240   | 185   | 265   | 205   | -   | -  |
| 95   | 360   | 280   | 340   | 260   | 280   | 215   | 260   | 215   | 215   | 170   | -   | -   | 375   | 290  | 290   | 225   | 315   | 245   | -   | -  |
| 120  | 420   | 330   | 395   | 305   | 325   | 255   | 310   | 255   | 255   | 200   | -   | -   | 425   | 330  | 335   | 260   | 365   | 285   | -   | -  |
| 150  | 485   | 375   | 450   | 350   | 375   | 290   | 350   | 290   | 285   | 230   | -   | -   | 480   | 370  | 375   | 290   | 410   | 320   | -   | -  |
| 185  | 570   | 440   | 520   | 405   | 435   | 340   | 400   | 340   | 330   | 260   | -   | -   | 540   | 425  | 435   | 335   | 470   | 365   | -   | -  |
| 240  | 680   | 530   | 620   | 485   | 520   | 410   | 475   | 400   | 390   | 310   | -   | -   | 630   | 490  | 510   | 400   | 550   | 425   | -   | -  |
| 300  | 790   | 610   | 720   | 560   | 610   | 475   | -   | -   | -   | -   | -   | -   | 710   | 560  | 580   | 450   | 630   | 490   | -   | -  |
| 400  | 920   | 720   | 840   | 660   | 710   | 560   | -   | -   | -   | -   | -   | -   | 810   | 640  | 670   | 530   | 720   | 560   | -   | -  |
| 500  | 1080  | 850   | 970   | 770   | 820   | 660   | -   | -   | -   | -   | -   | -   | 910   | 730  | 760   | 610   | 820   | 650   | -   | -  |
| 630  | 1260  | 1000  | 1110  | 900   | 950   | 770   | -   | -   | -   | -   | -   | -   | 1030  | 830  | 890   | 720   | 950   | 750   | -   | -  |





**TECHNICAL DATA**  
**CURRENT RATINGS AND VOLTAGE DROP**  
**TABLE 4**

**TWO CORE V90 PVC/PVC 0.6 / 1 k V CABLES.**

| Cond. size      | Unenclosed  |   |   |   | Enclosed  |   |   |   |   |   |   |   | Buried direct   |   | U/ground ducts  |   | Single phase voltage drop mV/A.m |       |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------------|-------|
|                 | Spaced  |   | Touching  |   | Conduit in air – round cable  |   | In conduit or unenclosed partially surrounded by thermal insulation               |   | Completely surrounded by thermal insulation                                       |   |   |   |   |   |   |   |                                  |       |
|                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                  |       |
| mm <sup>2</sup> | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu                               | Al    |
| 1               | 15  |   | 14  |   | 11  |   | 13  |   | 10  |   | 7   |   | 22  |   | 17  |   | 51.6                             |       |
| 1.5             | 19  |   | 18  |   | 14  |   | 17  |   | 13  |   | 9   |   | 28  |   | 22  |   | 33.0                             |       |
| 2.5             | 27  |   | 26  |   | 20  |   | 22  |   | 18  |   | 13  |   | 40  |   | 31  |   | 18.0                             |       |
| 4               | 37  |   | 34  |   | 26  |   | 29  |   | 24  |   | 17  |   | 52  |   | 40  |   | 11.2                             |       |
| 6               | 46  |   | 44  |   | 34  |   | 37  |   | 31  |   | 22  |   | 65  |   | 51  |   | 7.50                             |       |
| 10              | 64  |   | 60  |   | 47  |   | 50  |   | 43  |   | 30  |   | 87  |   | 68  |   | 4.46                             |       |
| 16              | 85  | 66  | 80  | 62  | 63  | 48  | 66  | 50  | 57  | 44  | 40  | 31  | 115   | 88  | 88  | 68  | 2.81                             | 4.66  |
| 25              | 115   | 88  | 105   | 83  | 88  | 67  | 89  | 67  | 79  | 62  | 53  | 41  | 145   | 115   | 115   | 89  | 1.78                             | 2.93  |
| 35              | 140   | 110   | 130   | 100   | 105   | 78  | 105   | 78  | 92  | 72  | 65  | 51  | 180   | 140   | 140   | 110   | 1.28                             | 2.13  |
| 50              | 170   | 130   | 160   | 125   | 125   | 94  | 125   | 94  | 110   | 87  | –   | –   | 210   | 165   | 165   | 130   | 0.951                            | 1.57  |
| 70              | 215   | 165   | 200   | 155   | 155   | 120   | –   | –   | 140   | 110   | –   | –   | 260   | 200   | 205   | 160   | 0.673                            | 1.10  |
| 95              | 265   | 205   | 250   | 190   | 190   | 145   | –   | –   | 165   | 130   | –   | –   | 310   | 240   | 250   | 195   | 0.498                            | 0.798 |
| 120             | 305   | 240   | 290   | 225   | 225   | 170   | –   | –   | 195   | 155   | –   | –   | 355   | 275   | 290   | 225   | 0.405                            | 0.638 |
| 150             | 350   | 270   | 330   | 255   | 255   | 190   | –   | –   | 220   | 175   | –   | –   | 400   | 310   | 325   | 250   | 0.342                            | 0.528 |
| 185             | 405   | 315   | 375   | 295   | 295   | 220   | –   | –   | 255   | 200   | –   | –   | 450   | 350   | 370   | 290   | 0.290                            | 0.431 |
| 240             | 475   | 375   | 445   | 350   | 345   | 260   | –   | –   | 300   | 240   | –   | –   | 520   | 405   | 430   | 335   | 0.243                            | 0.343 |
| 300             | 550   | 430   | 510   | 400   | 400   | 300   | –   | –   | 345   | 275   | –   | –   | 590   | 460   | 495   | 390   | 0.215                            | 0.290 |
| 400             | 630   | 500   | 590   | 465   | 465   | 350   | –   | –   | 405   | 320   | –   | –   | 660   | 530   | 560   | 445   | 0.194                            | 0.245 |
| 500             | 720   | 580   | 670   | 540   | 540   | 405   | –   | –   | 465   | 370   | –   | –   | 740   | 600   | 650   | 520   | 0.180                            | 0.215 |











**TECHNICAL DATA**  
**CURRENT RATINGS AND VOLTAGE DROP**  
**TABLE 5**

**TWO CORE XLPE/PVC 90° 0.6 / 1 k V CABLES.**

| Cond. size      | Unenclosed  |   |   |   | Enclosed   |     |                                  |     |   |    |     |     | Buried direct |     | Underground non-metallic wiring enclosure |    |
|-----------------|---|---|---|---|--|-----|----------------------------------|-----|---|----|-----|-----|---------------|-----|---|----|
|                 | Spaced  |   | Touching  |   | In non-metallic wiring unenclosed partially surrounded by thermal insulation |     |                                  |     | Completely surrounded by thermal insulation |    |     |     |               |     |   |    |
|                 |  |  |  |  | Non-metallic wiring enclosure in air   |     | surrounded by thermal insulation |     | surrounded by thermal insulation            |    |     |     |               |     |   |    |
| mm <sup>2</sup> | Cu  | Al  | Cu  | Al  | Cu   | Al  | Cu                               | Al  | Cu  | Al | Cu  | Al  | Cu            | Al  | Cu  | Al |
| 1               | 18  | –   | 17  | –   | 13   | 10  | 14                               | 11  | 9   | –  | 26  | –   | 20            | –   | –   | –  |
| 1.5             | 24  | –   | 22  | –   | 17   | 13  | 17                               | 14  | 11  | –  | 33  | –   | 25            | –   | –   | –  |
| 2.5             | 34  | –   | 31  | –   | 24   | 18  | 24                               | 18  | 16  | –  | 46  | –   | 35            | –   | –   | –  |
| 4               | 45  | –   | 42  | –   | 33   | 24  | 32                               | 25  | 21  | –  | 60  | –   | 46            | –   | –   | –  |
| 6               | 57  | –   | 53  | –   | 42   | 32  | 41                               | 32  | 27  | –  | 75  | –   | 57            | –   | –   | –  |
| 10              | 78  | –   | 73  | –   | 59   | 44  | 56                               | 44  | 36  | –  | 100 | –   | 77            | –   | –   | –  |
| 16              | 105   | 81  | 97  | 75  | 79   | 60  | 74                               | 58  | 49  | 38 | 130 | 100 | 100           | 78  | –   | –  |
| 25              | 140   | 110   | 130   | 100   | 110  | 84  | 105                              | 81  | 66  | 51 | 170 | 130 | 130           | 100 | –   | –  |
| 35              | 175   | 135   | 160   | 125   | 130  | 99  | 120                              | 94  | 81  | 63 | 205 | 160 | 160           | 120 | –   | –  |
| 50              | 210   | 165   | 195   | 155   | 160  | 120 | 145                              | 115 | –   | –  | 245 | 190 | 190           | 145 | –   | –  |
| 70              | 270   | 210   | 250   | 195   | 200  | 155 | 180                              | 140 | –   | –  | 300 | 235 | 235           | 180 | –   | –  |
| 95              | 330   | 255   | 310   | 240   | 240  | 185 | 215                              | 170 | –   | –  | 360 | 280 | 285           | 220 | –   | –  |
| 120             | 385   | 300   | 360   | 280   | 285  | 220 | 255                              | 200 | –   | –  | 410 | 320 | 325           | 255 | –   | –  |
| 150             | 440   | 340   | 410   | 320   | 325  | 250 | 285                              | 230 | –   | –  | 460 | 355 | 375           | 290 | –   | –  |
| 185             | 510   | 395   | 475   | 370   | 375  | 290 | 330                              | 265 | –   | –  | 520 | 405 | 425           | 330 | –   | –  |
| 240             | 600   | 470   | 560   | 440   | 445  | 350 | 390                              | 310 | –   | –  | 600 | 470 | 500           | 390 | –   | –  |
| 300             | 690   | 540   | 640   | 510   | 520  | 405 | 450                              | 355 | –   | –  | 680 | 530 | 570           | 450 | –   | –  |
| 400             | 800   | 640   | 750   | 590   | 600  | 475 | 520                              | 415 | –   | –  | 770 | 610 | 650           | 520 | –   | –  |
| 500             | 920   | 730   | 850   | 680   | 770  | 620 | 620                              | 495 | –   | –  | 860 | 690 | 750           | 600 | –   | –  |











**TECHNICAL DATA**  
**CURRENT RATINGS AND VOLTAGE DROP**  
**TABLE 6**

**THREE SINGLE CORE V90 PVC or PVC/PVC 0.6 / 1 k V CABLES.**

| Cond size       | Unenclosed  |   |   |                |                    |     | Enclosed  |  |   |   |   |   | Buried direct   |   | Underground ducts   |   |   |   | Three phase voltage drop mV/A.m   |   |   |   |
|-----------------|---|---|---|----------------|--------------------|-----|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                 | Spaced  |   | Spaced from surface   |                | Touching           |     | In conduit or un-enclosed partially surrounded by                                 |  |   | Completely surrounded by thermal  |   |   |   |   |   |   |   |   |   |   |   |   |
|                 |  |  |  | Conduit in air | thermal insulation |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| mm <sup>2</sup> | Cu  | Al  | Cu  | Al             | Cu                 | Al  | Cu  | Al   | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  |
| 1               | 16  | -   | 14  | -              | 13                 | -   | 11  | 10   | 6   | 21  | 16  | -   | 19  | 44.7  | -   | 44.7  | -   | -   | -   | -   | -   | -   |
| 1.5             | 20  | -   | 17  | -              | 16                 | -   | 14  | 12   | 8   | 27  | 20  | -   | 25  | 28.6  | -   | 28.6  | -   | -   | -   | -   | -   | -   |
| 2.5             | 29  | -   | 25  | -              | 23                 | -   | 20  | 17   | 12  | 37  | 28  | -   | 34  | 15.6  | -   | 15.6  | -   | -   | -   | -   | -   | -   |
| 4               | 38  | -   | 33  | -              | 31                 | -   | 26  | 23   | 16  | 49  | 37  | -   | 44  | 9.71  | -   | 9.71  | -   | -   | -   | -   | -   | -   |
| 6               | 49  | -   | 42  | -              | 40                 | -   | 34  | 29   | 20  | 61  | 46  | -   | 54  | 6.49  | -   | 6.49  | -   | -   | -   | -   | -   | -   |
| 10              | 67  | -   | 56  | -              | 54                 | -   | 47  | 39   | 27  | 81  | 61  | -   | 72  | 3.86  | -   | 3.86  | -   | -   | -   | -   | -   | -   |
| 16              | 89  | 68  | 77  | 59             | 72                 | 55  | 62  | 48   | 52  | 40  | 36  | 28  | 105   | 81  | 80  | 61  | 92  | 71  | 2.43  | 4.05  | 2.43  | 4.05  |
| 25              | 120   | 93  | 105   | 80             | 97                 | 75  | 87  | 68   | 72  | 56  | 48  | 37  | 135   | 105   | 105   | 80  | 120   | 92  | 1.54  | 2.55  | 1.55  | 2.55  |
| 35              | 150   | 115   | 125   | 99             | 120                | 93  | 100   | 79   | 84  | 65  | 59  | 46  | 160   | 125   | 125   | 97  | 145   | 110   | 1.12  | 1.85  | 1.12  | 1.85  |
| 50              | 180   | 140   | 155   | 120            | 145                | 115 | 125   | 95   | 100   | 79  | -   | -   | 190   | 145   | 150   | 115   | 170   | 130   | 0.834   | 1.37  | 0.84  | 1.37  |
| 70              | 230   | 180   | 195   | 155            | 185                | 145 | 155   | 120  | 125   | 99  | -   | -   | 235   | 180   | 185   | 145   | 210   | 165   | 0.589   | 0.952   | 0.597   | 0.956   |
| 95              | 285   | 225   | 245   | 190            | 230                | 180 | 185   | 145  | 150   | 120   | -   | -   | 280   | 215   | 225   | 175   | 255   | 195   | 0.439   | 0.696   | 0.449   | 0.702   |
| 120             | 335   | 260   | 285   | 225            | 265                | 210 | 220   | 170  | 175   | 140   | -   | -   | 315   | 245   | 260   | 200   | 290   | 225   | 0.359   | 0.558   | 0.371   | 0.565   |
| 150             | 385   | 300   | 330   | 255            | 310                | 240 | 250   | 195  | 200   | 160   | -   | -   | 355   | 275   | 290   | 230   | 320   | 255   | 0.305   | 0.463   | 0.319   | 0.472   |
| 185             | 445   | 345   | 385   | 300            | 355                | 280 | 285   | 220  | 230   | 180   | -   | -   | 400   | 310   | 335   | 260   | 370   | 290   | 0.261   | 0.380   | 0.277   | 0.391   |
| 240             | 540   | 415   | 455   | 355            | 425                | 330 | 340   | 265  | 270   | 215   | -   | -   | 465   | 365   | 390   | 305   | 430   | 335   | 0.221   | 0.305   | 0.240   | 0.319   |
| 300             | 620   | 485   | 530   | 415            | 490                | 385 | 390   | 305  | 310   | 250   | -   | -   | 520   | 410   | 450   | 350   | 495   | 385   | 0.198   | 0.260   | 0.219   | 0.276   |
| 400             | 730   | 570   | 610   | 485            | 570                | 455 | 455   | 355  | 360   | 290   | -   | -   | 590   | 470   | 510   | 405   | 560   | 490   | 0.181   | 0.222   | 0.202   | 0.240   |
| 500             | 850   | 660   | 710   | 570            | 660                | 530 | 530   | 410  | 415   | 335   | -   | -   | 670   | 540   | 590   | 465   | 650   | 510   | 0.168   | 0.196   | 0.191   | 0.216   |
| 630             | 990   | 790   | 820   | 670            | 760                | 630 | 620   | 480  | 485   | 390   | -   | -   | 750   | 620   | 660   | 540   | 730   | 580   | 0.157   | 0.175   | 0.181   | 0.197   |

**TECHNICAL DATA**  
**CURRENT RATINGS AND VOLTAGE DROP**  
**TABLE 7**













**THREE SINGLE CORE XLPE/PVC 90° 0.6 / 1 k V CABLES.**

| Cond size       | Unenclosed  |   |   |                |                    |     | Enclosed  |  |   |   |   |   | Buried direct   |   | Underground ducts   |   |   |   | Three phase voltage drop mV/A.m   |   |   |       |
|-----------------|---|---|---|----------------|--------------------|-----|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
|                 | Spaced  |   | Spaced from surface   |                | Touching           |     | In conduit or un-enclosed partially surrounded by                                   |  |   | Completely surrounded by thermal  |   |   |   |   |   |   |   |   |   |   |   |       |
|                 |  |  |  | Conduit in air | thermal insulation |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |
| mm <sup>2</sup> | Cu  | Al  | Cu  | Al             | Cu                 | Al  | Cu  | Al   | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al    |
| 1               | 19  | -   | 16  | -              | 16                 | -   | 14  | 10   | 8   | 24  | 18  | -   | 22  | 46.8  | -   | 46.8  | -   | -   | -   | -   | -   | -     |
| 1.5             | 25  | -   | 21  | -              | 20                 | -   | 18  | 12   | 10  | 31  | 23  | -   | 28  | 30.0  | -   | 30.0  | -   | -   | -   | -   | -   | -     |
| 2.5             | 35  | -   | 30  | -              | 28                 | -   | 25  | 17   | 14  | 42  | 32  | -   | 39  | 16.4  | -   | 16.4  | -   | -   | -   | -   | -   | -     |
| 4               | 46  | -   | 40  | -              | 37                 | -   | 33  | 28   | 19  | 55  | 41  | -   | 50  | 10.2  | -   | 10.2  | -   | -   | -   | -   | -   | -     |
| 6               | 59  | -   | 50  | -              | 47                 | -   | 42  | 36   | 24  | 68  | 52  | -   | 62  | 6.81  | -   | 6.81  | -   | -   | -   | -   | -   | -     |
| 10              | 81  | -   | 69  | -              | 65                 | -   | 58  | 50   | 32  | 91  | 69  | -   | 81  | 4.05  | -   | 4.05  | -   | -   | -   | -   | -   | -     |
| 16              | 110   | 84  | 92  | 71             | 86                 | 67  | 78  | 64   | 66  | 53  | 43  | 33  | 115   | 96  | 89  | 69  | 105   | 80  | 2.55  | 4.25  | 2.55  | 4.25  |
| 25              | 145   | 115   | 125   | 97             | 115                | 91  | 110   | 90   | 92  | 73  | 58  | 45  | 150   | 115   | 115   | 90  | 135   | 105   | 1.62  | 2.67  | 1.62  | 2.67  |
| 35              | 180   | 140   | 155   | 120            | 145                | 110 | 125   | 105  | 105   | 85  | 72  | 56  | 180   | 140   | 140   | 110   | 160   | 125   | 1.17  | 1.94  | 1.18  | 1.94  |
| 50              | 220   | 170   | 190   | 145            | 175                | 135 | 155   | 125  | 130   | 100   | -   | -   | 215   | 165   | 170   | 130   | 195   | 150   | 0.872   | 1.43  | 0.878   | 1.44  |
| 70              | 280   | 220   | 240   | 185            | 225                | 175 | 190   | 160  | 160   | 130   | -   | -   | 260   | 205   | 210   | 165   | 235   | 185   | 0.615   | 0.997   | 0.623   | 1.00  |
| 95              | 350   | 270   | 300   | 230            | 280                | 215 | 230   | 195  | 195   | 155   | -   | -   | 315   | 245   | 250   | 195   | 280   | 220   | 0.457   | 0.727   | 0.467   | 0.733 |
| 120             | 410   | 320   | 350   | 270            | 325                | 255 | 270   | 230  | 225   | 180   | -   | -   | 365   | 275   | 290   | 225   | 325   | 255   | 0.373   | 0.582   | 0.385   | 0.589 |
| 150             | 470   | 365   | 405   | 315            | 375                | 290 | 310   | 260  | 255   | 205   | -   | -   | 400   | 310   | 330   | 255   | 365   | 280   | 0.316   | 0.482   | 0.330   | 0.491 |
| 185             | 550   | 425   | 470   | 365            | 435                | 340 | 355   | 300  | 295   | 235   | -   | -   | 450   | 350   | 375   | 290   | 420   | 325   | 0.269   | 0.394   | 0.285   | 0.404 |
| 240             | 660   | 510   | 560   | 440            | 520                | 405 | 420   | 360  | 350   | 275   | -   | -   | 520   | 410   | 440   | 345   | 485   | 380   | 0.227   | 0.314   | 0.245   | 0.327 |
| 300             | 770   | 600   | 650   | 510            | 600                | 470 | 485   | 415  | 400   | 320   | -   | -   | 590   | 465   | 510   | 400   | 560   | 435   | 0.202   | 0.266   | 0.222   | 0.281 |
| 400             | 900   | 700   | 760   | 600            | 700                | 560 | 560   | 485  | 465   | 370   | -   | -   | 670   | 530   | 580   | 455   | 640   | 500   | 0.183   | 0.226   | 0.205   | 0.243 |
| 500             | 1050  | 830   | 870   | 700            | 810                | 650 | 650   | 560  | 540   | 425   | -   | -   | 750   | 600   | 670   | 540   | 720   | 570   | 0.170   | 0.197   | 0.193   | 0.216 |
| 630             | 1230  | 980   | 1010  | 820            | 940                | 770 | 760   | 660  | 630   | 500   | -   | -   | 840   | 690   | 760   | 620   | 830   | 660   | 0.159   | 0.177   | 0.182   | 0.198 |

**TECHNICAL DATA  
CURRENT RATINGS AND VOLTAGE DROP**

**TABLE 8**













**THREE AND FOUR CORE V90 PVC/PVC 0.6/1 k V CABLES.**

| Cond. size      | Unenclosed  |   |   |   | Enclosed  |   |   |   |   |  | Buried direct |    | U/ground ducts  |   | Three phase voltage drop mV/A.m |     |       |       |
|-----------------|---|---|---|---|---|---|---|---|---|--|---------------|----|---|---|---------------------------------|-----|-------|-------|
|                 | Spaced  |   | Touching  |   | Conduit in air – round cable  |   | In conduit or unenclosed partially surrounded by thermal insulation               |   | Completely surrounded by thermal insulation                                       |  |               |    |   |   |                                 |     |       |       |
|                 |  |  |  |  |  |  |  |  |  |  |               |    |  |  |                                 |     | Cu    | Al    |
| mm <sup>2</sup> | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al   | Cu            | Al | Cu  | Al  | Cu                              | Al  | Cu    | Al    |
| 1               | 13  |   | 12  |   | 10  |   | 12  |   | 10  |  | 6             |    | 19  |   | 15                              |     | 44.7  |       |
| 1.5             | 16  |   | 15  |   | 13  |   | 15  |   | 12  |  | 8             |    | 24  |   | 19                              |     | 28.6  |       |
| 2.5             | 23  |   | 22  |   | 18  |   | 20  |   | 17  |  | 11            |    | 34  |   | 26                              |     | 15.6  |       |
| 4               | 31  |   | 29  |   | 24  |   | 26  |   | 22  |  | 15            |    | 44  |   | 34                              |     | 9.71  |       |
| 6               | 40  |   | 37  |   | 31  |   | 34  |   | 29  |  | 19            |    | 55  |   | 43                              |     | 6.49  |       |
| 10              | 54  |   | 51  |   | 42  |   | 46  |   | 39  |  | 25            |    | 74  |   | 57                              |     | 3.86  |       |
| 16              | 72  | 56  | 68  | 53  | 56  | 43  | 60  | 46  | 52  | 40   | 34            | 26 | 96  | 75  | 74                              | 58  | 2.43  | 4.04  |
| 25              | 97  | 75  | 91  | 71  | 79  | 60  | 83  | 63  | 72  | 56   | 46            | 35 | 125   | 97  | 96                              | 75  | 1.54  | 2.54  |
| 35              | 120   | 93  | 110   | 87  | 92  | 70  | 92  | 70  | 84  | 65   | 56            | 43 | 150   | 115   | 115                             | 91  | 1.11  | 1.84  |
| 50              | 145   | 115   | 135   | 105   | 110   | 84  | 110   | 84  | 100   | 79   | –             | –  | 180   | 140   | 140                             | 110 | 0.829 | 1.36  |
| 70              | 185   | 145   | 170   | 135   | 140   | 105   | –   | –   | 125   | 99   | –             | –  | 220   | 170   | 175                             | 135 | 0.583 | 0.948 |
| 95              | 230   | 180   | 215   | 165   | 165   | 125   | –   | –   | 150   | 120  | –             | –  | 265   | 205   | 210                             | 165 | 0.431 | 0.691 |
| 120             | 265   | 205   | 245   | 195   | 195   | 150   | –   | –   | 175   | 140  | –             | –  | 300   | 235   | 240                             | 190 | 0.351 | 0.552 |
| 150             | 305   | 235   | 280   | 220   | 225   | 170   | –   | –   | 200   | 160  | –             | –  | 335   | 265   | 270                             | 210 | 0.296 | 0.457 |
| 185             | 350   | 275   | 325   | 255   | 260   | 195   | –   | –   | 230   | 180  | –             | –  | 380   | 300   | 310                             | 245 | 0.251 | 0.373 |
| 240             | 410   | 325   | 385   | 305   | 305   | 230   | –   | –   | 270   | 215  | –             | –  | 440   | 345   | 370                             | 290 | 0.210 | 0.297 |
| 300             | 470   | 375   | 440   | 345   | –   | –   | –   | –   | –   | –  | –             | –  | 495   | 390   | 415                             | 325 | 0.186 | 0.251 |
| 400             | 540   | 440   | 500   | 405   | –   | –   | –   | –   | –   | –  | –             | –  | 560   | 450   | 480                             | 385 | 0.168 | 0.212 |
| 500             | 620   | 500   | 570   | 460   | –   | –   | –   | –   | –   | –  | –             | –  | 620   | 500   | 540                             | 435 | 0.156 | 0.186 |

**TECHNICAL DATA  
CURRENT RATINGS AND VOLTAGE DROP**

**TABLE 9**

**THREE AND FOUR CORE XLPE/PVC 90° 0.6 / 1 k V CABLES.**

| Cond. size      | Unenclosed  |   |   |   | Enclosed  |   |   |   |    |    | Buried direct   |  | U/ground ducts  |   | Three phase voltage drop mV/A.m |       |    |    |
|-----------------|---|---|---|---|---|---|---|---|----|----|---|--|---|---|---------------------------------|-------|----|----|
|                 | Spaced  |   | Touching  |   | In conduit or unenclosed partially surrounded by thermal insulation                 |   | Completely surrounded by thermal insulation   |   |    |    |   |  |   |   |                                 |       |    |    |
|                 |  |  |  |  |  |  |  |  |    |    |  |  |  |  |                                 |       | Cu | Al |
| mm <sup>2</sup> | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu  | Al  | Cu | Al | Cu  | Al   | Cu  | Al  | Cu                              | Al    | Cu | Al |
| 1               | 16  | –   | 14  | –   | 12  | –   | 12  | –   | 6  | –  | 19  | –  | 15  | –   | 46.8                            | –     | –  | –  |
| 1.5             | 20  | –   | 19  | –   | 16  | –   | 16  | –   | 8  | –  | 24  | –  | 19  | –   | 30.0                            | –     | –  | –  |
| 2.5             | 28  | –   | 26  | –   | 22  | –   | 21  | –   | 11 | –  | 34  | –  | 26  | –   | 16.4                            | –     | –  | –  |
| 4               | 38  | –   | 35  | –   | 29  | –   | 28  | –   | 15 | –  | 44  | –  | 34  | –   | 10.2                            | –     | –  | –  |
| 6               | 48  | –   | 45  | –   | 38  | –   | 36  | –   | 19 | –  | 55  | –  | 43  | –   | 6.80                            | –     | –  | –  |
| 10              | 66  | –   | 62  | –   | 53  | –   | 50  | –   | 25 | –  | 74  | –  | 57  | –   | 4.05                            | –     | –  | –  |
| 16              | 88  | 68  | 83  | 64  | 70  | 54  | 66  | 53  | 34 | 26 | 96  | 75   | 74  | 58  | 2.55                            | 4.24  | –  | –  |
| 25              | 120   | 93  | 110   | 86  | 98  | 76  | 92  | 73  | 46 | 35 | 125   | 97   | 96  | 75  | 1.61                            | 2.67  | –  | –  |
| 35              | 145   | 115   | 135   | 105   | 115   | 89  | 105   | 85  | 56 | 43 | 150   | 115  | 115   | 91  | 1.17                            | 1.93  | –  | –  |
| 50              | 180   | 140   | 170   | 130   | 140   | 110   | 130   | 100   | –  | –  | 180   | 140  | 140   | 110   | 0.868                           | 1.43  | –  | –  |
| 70              | 230   | 180   | 215   | 165   | 175   | 135   | 160   | 130   | –  | –  | 220   | 170  | 175   | 135   | 0.609                           | 0.993 | –  | –  |
| 95              | 285   | 220   | 265   | 205   | 210   | 165   | 195   | 155   | –  | –  | 265   | 205  | 210   | 165   | 0.450                           | 0.723 | –  | –  |
| 120             | 330   | 255   | 305   | 240   | 250   | 195   | 225   | 180   | –  | –  | 300   | 235  | 240   | 190   | 0.366                           | 0.577 | –  | –  |
| 150             | 375   | 295   | 350   | 270   | 280   | 220   | 255   | 205   | –  | –  | 335   | 265  | 270   | 210   | 0.307                           | 0.476 | –  | –  |
| 185             | 435   | 340   | 405   | 315   | 325   | 255   | 295   | 235   | –  | –  | 380   | 300  | 310   | 245   | 0.259                           | 0.388 | –  | –  |
| 240             | 520   | 405   | 480   | 375   | 385   | 305   | 350   | 275   | –  | –  | 440   | 345  | 370   | 290   | 0.216                           | 0.307 | –  | –  |
| 300             | 590   | 465   | 550   | 430   | –   | –   | –   | –   | –  | –  | 495   | 390  | 415   | 325   | 0.190                           | 0.258 | –  | –  |
| 400             | 680   | 550   | 630   | 500   | –   | –   | –   | –   | –  | –  | 560   | 450  | 480   | 385   | 0.171                           | 0.216 | –  | –  |
| 500             | 780   | 630   | 720   | 580   | –   | –   | –   | –   | –  | –  | 620   | 500  | 540   | 435   | 0.158                           | 0.189 | –  | –  |