

## 3 Core 120° Shaped Copper, PVC, PVC / LHFRPVC, SWA, FRPVC / LHFRPVC.

### Application:

For use in power circuits of 600 / 1 000V earthed systems. installed in cable trays, ducts and underground.

### Construction:

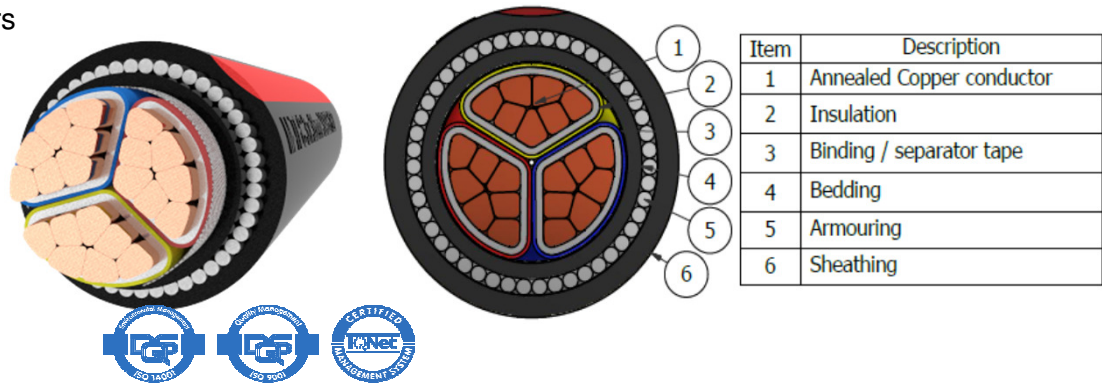
3 Core, Copper stranded sector shaped conductor, PVC insulated, PVC / LHFRPVC bedding, steel wire armoured and FRPVC / LHFRPVC sheath.

Voltage Rating: 600/1 000V

Specification: SANS 1507-3

| SIZE CODE            |                            | CP 3X(conductor size)FR / LH |                  |                 |                |            |                  |                |                |        |       |            |           |           |           |             |                       |             |                   |
|----------------------|----------------------------|------------------------------|------------------|-----------------|----------------|------------|------------------|----------------|----------------|--------|-------|------------|-----------|-----------|-----------|-------------|-----------------------|-------------|-------------------|
| Conductor size       | Conductor depth / diameter | Insulation depth / diameter  | Bedding diameter | Armour diameter | Cable diameter | Cable mass | Cable gross mass | Bending radius | Current rating |        |       | Resistance |           | Reactance | Impedance | Capacitance | Short circuit ratings |             | 3 Phase volt drop |
|                      |                            |                              |                  |                 |                |            |                  |                | air            | ground | ducts | dc @ 20°C  | ac @ 70°C |           |           |             | Symmetrical           | Earth fault |                   |
|                      |                            |                              |                  |                 |                |            |                  |                |                |        |       |            |           |           |           |             |                       |             |                   |
| mm <sup>2</sup> Nom. | mm Nom.                    | mm Nom.                      | mm Nom.          | mm Nom.         | mm Nom.        | kg/m       | 300m Nom.        | mm min.        |                |        |       |            |           |           |           |             |                       |             |                   |
| 25                   | 5.7                        | 8.2                          | 19               | 21.6            | 25             | 1.6        | 570              | 250            | 109            | 119    | 96    | 0.727      | 0.870     | 0.073     | 0.873     | 0.611       | 2.9                   | 3.2         | 1.51              |
| 35                   | 6.7                        | 9.2                          | 21               | 23.1            | 27             | 1.9        | 670              | 266            | 133            | 143    | 116   | 0.524      | 0.627     | 0.073     | 0.632     | 0.711       | 4.0                   | 4.6         | 1.09              |
| 50                   | 7.8                        | 10.6                         | 25               | 28.5            | 32             | 2.8        | 947              | 322            | 162            | 169    | 138   | 0.387      | 0.463     | 0.068     | 0.468     | 0.705       | 5.4                   | 5.2         | 0.80              |
| 70                   | 9.4                        | 12.3                         | 27               | 29.7            | 33             | 3.4        | 1 168            | 334            | 205            | 210    | 171   | 0.268      | 0.321     | 0.072     | 0.329     | 0.826       | 7.8                   | 7.6         | 0.56              |
| 95                   | 11.1                       | 14.4                         | 31               | 34.7            | 39             | 4.7        | 1 566            | 388            | 252            | 251    | 205   | 0.193      | 0.232     | 0.070     | 0.242     | 0.839       | 10.9                  | 16.0        | 0.40              |
| 120                  | 12.5                       | 15.8                         | 33               | 37.4            | 42             | 5.6        | 1 838            | 419            | 291            | 285    | 234   | 0.153      | 0.184     | 0.067     | 0.196     | 0.933       | 13.7                  | 11.9        | 0.32              |
| 150                  | 14.0                       | 17.7                         | 37               | 40.8            | 46             | 6.8        | 2 245            | 457            | 334            | 320    | 263   | 0.124      | 0.150     | 0.066     | 0.164     | 0.933       | 16.9                  | 13.0        | 0.26              |
| 185                  | 15.6                       | 19.7                         | 41               | 46.2            | 51             | 8.6        | 2 805            | 511            | 383            | 361    | 298   | 0.099      | 0.121     | 0.068     | 0.139     | 0.939       | 21.2                  | 14.4        | 0.21              |
| 240                  | 18.9                       | 23.4                         | 54               | 59.2            | 65             | 11.6       | 3 849            | 650            | 4514           | 416    | 344   | 0.075      | 0.092     | 0.076     | 0.119     | 1.028       | 27.8                  | 16.7        | 0.16              |
| 300*                 | 21.2                       | 26.1                         | 60               | 65.1            | 71             | 14.1       | 4 579            | 712            | 514            | 465    | 385   | 0.060      | 0.075     | 0.075     | 0.106     | 1.057       | 34.9                  | 18.4        | 0.13              |

Note: \* These cables are manufactured with circular conductors



Revision: R00 (01/12/2016)