

U₀/U(U_m)=12/20(24)KV-THREE-CORE CABLE- ARMoured (SWA)

COPPER CONDUCTORS/ 5.5 mm XLPE INSULATION THICKNESS / PVC SHEATHED-90°C

| Nominal cross-sectional area | Overall diameter Φ approx | Net weight approx | Max resistance | | Current carrying capacity | | short circuit current of conductor for 1 sec. | Capacitance | Inductance | Voltage drop at 50 HZ cos.φ 0.8 |
|------------------------------|------------------------------|----------------------|----------------|------------|-------------------------------|---------------------|--|-------------|------------|------------------------------------|
| | | | DC at 20°C | AC at 90°C | Ground at 35°C Direct laid | Air at 40°C free | | | | |
| mm ² | mm | kg/km | Ω/KM | Ω/KM | Amp | Amp | ka/km | μf/km | mh/km | V/A/km |
| 3X35 | 61.4 | 6131 | 0.524 | 0.668 | 155 | 165 | 5.01 | 0.155 | 0.373 | 0.857 |
| 3X50 | 64.4 | 6793 | 0.387 | 0.494 | 190 | 200 | 7.15 | 0.171 | 0.357 | 0.669 |
| 3X70 | 68.6 | 7939 | 0.268 | 0.342 | 230 | 240 | 10.01 | 0.193 | 0.339 | 0.503 |
| 3X95 | 73.9 | 9856 | 0.193 | 0.247 | 275 | 285 | 13.59 | 0.213 | 0.325 | 0.398 |
| 3X120 | 77.5 | 11066 | 0.153 | 0.196 | 305 | 345 | 17.16 | 0.230 | 0.315 | 0.341 |
| 3X150 | 80.1 | 12368 | 0.124 | 0.159 | 340 | 385 | 21.45 | 0.243 | 0.309 | 0.299 |
| 3X185 | 84.7 | 13894 | 0.0991 | 0.1275 | 380 | 420 | 26.46 | 0.266 | 0.299 | 0.262 |
| 3X240 | 90.4 | 16280 | 0.0754 | 0.0975 | 430 | 500 | 34.32 | 0.295 | 0.288 | 0.227 |
| 3X300 | 95.8 | 18602 | 0.0601 | 0.0800 | 485 | 550 | 42.90 | 0.322 | 0.280 | 0.205 |
| 3X400 | 102.4 | 22337 | 0.0470 | 0.0630 | 525 | 620 | 57.20 | 0.354 | 0.272 | 0.184 |

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ALUMINIUM CONDUCTORS/ 5.5 mm XLPE INSULATION THICKNESS / PVC SHEATHED-90°C

| Nominal cross-sectional area | Overall diameter Φ approx | Net weight approx | Max resistance | | Current carrying capacity | | short circuit current of conductor for 1 sec. | Capacitance | Inductance | Voltage drop at 50 HZ cos.φ 0.8 |
|------------------------------|------------------------------|-------------------|----------------|------------|----------------------------|------------------|---|-------------|------------|---------------------------------|
| | | | DC at 20°C | AC at 90°C | Ground at 35°C Direct laid | Air at 40°C free | | | trefoil | trefoil |
| mm ² | mm | kg/km | Ω/KM | Ω/KM | Amp | Amp | ka/km | μf/km | mh/km | V/A/km |
| 3X35 | 61.4 | 5486 | 0.868 | 1.113 | 120 | 125 | 3.22 | 0.155 | 0.373 | 1.319 |
| 3X50 | 64.4 | 5926 | 0.641 | 0.822 | 135 | 150 | 4.60 | 0.171 | 0.357 | 1.009 |
| 3X70 | 68.6 | 6612 | 0.443 | 0.569 | 175 | 185 | 6.44 | 0.193 | 0.339 | 0.739 |
| 3X95 | 73.9 | 8117 | 0.320 | 0.411 | 205 | 225 | 8.74 | 0.213 | 0.325 | 0.568 |
| 3X120 | 77.5 | 8876 | 0.253 | 0.325 | 230 | 255 | 11.04 | 0.230 | 0.315 | 0.475 |
| 3X150 | 80.1 | 9625 | 0.206 | 0.265 | 255 | 285 | 13.80 | 0.243 | 0.309 | 0.410 |
| 3X185 | 84.7 | 10561 | 0.1640 | 0.2110 | 290 | 330 | 17.02 | 0.266 | 0.299 | 0.349 |
| 3X240 | 90.4 | 11817 | 0.1250 | 0.1620 | 330 | 390 | 22.08 | 0.295 | 0.288 | 0.294 |
| 3X300 | 95.8 | 13061 | 0.1000 | 0.1300 | 370 | 440 | 27.60 | 0.322 | 0.280 | 0.257 |
| 3X400 | 102.4 | 15144 | 0.0778 | 0.1000 | 415 | 505 | 36.80 | 0.354 | 0.272 | 0.222 |