POWER CAB®

IS:694 IS:1554 IS:7098 | SINCE 1988 | CE | ISO 9001:

# 3.5 CORE ALUMINIUM XLPE ARMOURED POWER CABLES

| Type | No. of cores & cross sectional area | Min. No. of Wires | Thickness of insulation (min) | Thickness of insulation (nom) | Min. Thick-ness of inner-sheath (mm) | Nominal Dimensions of Armour Strip (mm) | Nominal Dimensions of Armour Wire (mm) | Min. Thickness of Outersheath Wire Armour (mm) | Min. Thickness of Outersheath Strip Armour (mm) | Overall Diameter (Approx.) Wire Armour (mm) | Overall Diameter (Approx.) Strip Armour (mm) | Approx. Net Wt. of Cable Wire Armour (Kg/Km) | Approx. Net Wt. of Cable Strip Armour (Kg/Km) | Max. D.C. Resistance at 20°C Ohms/Km | Max. A.C. Resistance at 90°C Ohms/Km | Approx. Reactance at 50 Hz Ohms/Km | Approx. Capacitance mFd/Km | CURRENT RATINGS Direct in Ground Amps | CURRENT RATINGS In Air Amps |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2xfy/A2xwy | 3.5CX25 | 6/6 | 0.9 | 0.7 | 0.3 | 1.60 | 4X0.8 | 1.40 | 1.40 | 23.8 | 22.2 | 999 | 760 | 1.2000 | 1.5400 | 0.080 | 0.20 | 94 | 96 |
| A2xfy/A2xwy | 3.5CX35 | 6/6 | 0.9 | 0.7 | 0.3 | 1.60 | 4X0.8 | 1.40 | 1.40 | 25.5 | 23.9 | 1146 | 885 | 0.8680 | 1.1100 | 0.080 | 0.23 | 113 | 117 |
| A2xfy/A2xwy | 3.5CX50 | 6/6 | 1.0 | 0.9 | 0.3 | 1.60 | 4X0.8 | 1.56 | 1.40 | 29.0 | 27.1 | 1427 | 1114 | 0.6410 | 0.8200 | 0.078 | 0.24 | 133 | 142 |
| A2xfy/A2xwy | 3.5CX70 | 12/6 | 1.1 | 0.9 | 0.4 | 2.00 | 4X0.8 | 1.56 | 1.56 | 34.0 | 31.6 | 2006 | 1473 | 0.4430 | 0.5670 | 0.077 | 0.26 | 164 | 179 |
| A2xfy/A2xwy | 3.5CX95 | 15/6 | 1.1 | 1.0 | 0.4 | 2.00 | 4X0.8 | 1.56 | 1.56 | 37.6 | 35.2 | 2436 | 1834 | 0.3200 | 0.4100 | 0.074 | 0.29 | 196 | 221 |
| A2xfy/A2xwy | 3.5CX120 | 15/12 | 1.2 | 1.1 | 0.4 | 2.00 | 4X0.8 | 1.72 | 1.72 | 40.2 | 37.8 | 2863 | 2220 | 0.2530 | 0.3250 | 0.072 | 0.29 | 223 | 257 |
| A2xfy/A2xwy | 3.5CX150 | 15/12 | 1.4 | 1.1 | 0.5 | 2.00 | 4X0.8 | 1.88 | 1.72 | 45.2 | 42.4 | 3378 | 2623 | 0.2060 | 0.2650 | 0.072 | 0.29 | 249 | 292 |
| A2xfy/A2xwy | 3.5CX185 | 30/15 | 1.6 | 1.1 | 0.5 | 2.50 | 4X0.8 | 2.04 | 1.88 | 49.7 | 46.0 | 4339 | 3179 | 0.1640 | 0.2110 | 0.072 | 0.29 | 282 | 337 |
| A2xfy/A2xwy | 3.5CX240 | 30/15 | 1.7 | 1.2 | 0.6 | 2.50 | 4X0.8 | 2.20 | 2.04 | 55.4 | 51.7 | 5298 | 3981 | 0.1250 | 0.1620 | 0.072 | 0.31 | 326 | 399 |
| A2xfy/A2xwy | 3.5CX300 | 30/15 | 1.8 | 1.4 | 0.6 | 2.50 | 4X0.8 | 2.36 | 2.20 | 59.3 | 55.6 | 6172 | 4750 | 0.1000 | 0.1300 | 0.071 | 0.33 | 367 | 455 |
| A2xfy/A2xwy | 3.5CX400 | 53/30 | 2.0 | 1.6 | 0.7 | 3.15 | 4X0.8 | 2.68 | 2.52 | 69.2 | 64.1 | 8341 | 6030 | 0.0778 | 0.1023 | 0.070 | 0.33 | 418 | 530 |

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IS:694 IS:1554 IS:7098 SINCE 1988 CE ISO 9001:

# 3.5 CORE ALUMINIUM XLPE UNARMOURED POWER CABLES

| Type | No. of cores & cross sectional area | Min. No. of Wires | Thickness of insulation | | Min. Thickness of innersheath | Nom. Thickness of Outersheath | Overall Diameter (Approx.) | Net Wt. of Cable (Approx.) | Max. D.C. Resistance at 20°C | Max. A.C. Resistance at 90°C | Approx. Reactance at 50 Hz | Approx. Capacitance | CURRENT RATINGS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Direct in Ground | In Air |
| | | (min) | (nom) | (mm) | (mm) | (mm) | (mm) | (Kg/Km) | Ohms/Km | Ohms/Km | Ohms/Km | mFd/Km | Amps | Amps |
| A2xy | 3.5CX25 | 6/6/ | 0.90 | 0.70 | 0.3 | 2.00 | 22.4 | 587 | 1.2000 | 1.5400 | 0.080 | 0.20 | 94 | 96 |
| A2xy | 3.5CX35 | 6/6 | 0.90 | 0.70 | 0.3 | 2.00 | 24.1 | 694 | 0.8680 | 1.1100 | 0.080 | 0.23 | 113 | 117 |
| A2xy | 3.5CX50 | 6/6 | 1.00 | 0.90 | 0.3 | 2.00 | 27.3 | 890 | 0.6410 | 0.8200 | 0.078 | 0.24 | 133 | 142 |
| A2xy | 3.5CX70 | 12/6 | 1.10 | 0.90 | 0.4 | 2.20 | 31.9 | 1215 | 0.4430 | 0.5670 | 0.077 | 0.26 | 164 | 179 |
| A2xy | 3.5CX95 | 15/6 | 1.10 | 1.00 | 0.4 | 2.20 | 35.5 | 1540 | 0.3200 | 0.4100 | 0.074 | 0.29 | 196 | 221 |
| A2xy | 3.5CX120 | 15/12 | 1.20 | 1.10 | 0.4 | 2.20 | 37.8 | 1875 | 0.2530 | 0.3250 | 0.072 | 0.29 | 223 | 257 |
| A2xy | 3.5CX150 | 15/12 | 1.40 | 1.10 | 0.5 | 2.40 | 42.8 | 2271 | 0.2060 | 0.2650 | 0.072 | 0.29 | 249 | 292 |
| A2xy | 3.5CX185 | 30/15 | 1.60 | 1.10 | 0.5 | 2.60 | 46.4 | 2805 | 0.1640 | 0.2110 | 0.072 | 0.29 | 282 | 337 |
| A2xy | 3.5CX240 | 30/15 | 1.70 | 1.20 | 0.6 | 2.80 | 52.4 | 3599 | 0.1250 | 0.1620 | 0.072 | 0.31 | 326 | 399 |
| A2xy | 3.5CX300 | 30/15 | 1.80 | 1.40 | 0.6 | 3.00 | 56.4 | 4348 | 0.1000 | 0.1300 | 0.071 | 0.33 | 367 | 455 |
| A2xy | 3.5CX400 | 53/30 | 2.00 | 1.60 | 0.7 | 3.40 | 65.3 | 5629 | 0.0778 | 0.1023 | 0.070 | 0.33 | 418 | 530 |

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