

Cable Compounds

These cable compounds are the base compounds. To improve performance Firstflex uses additives to create blends that achieve better field performance.

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| CPE | Chlorinated Polyethylene |
| CSP | Chlorosulphonated Polyethylene |
| EPDM | Ethylene Propylene Dien Monomer Terpolymer Rubber |
| EPR | Ethylene Propylene Copolymer Rubber |
| EVA | Ethylene Vinylacetate Copolymer |
| HDPE | High Density Thermoplastic Polyethylene |
| NBR | (Acrylo) Nitrial Butadienne Rubber |
| PCP | Polychloroprene (Neoprene) |
| PE | Polyethylene |
| PETP | Polyester |
| PP | Polypropylene |
| PUR | Polyurethane |
| PVC | Polyvinyl Chloride |
| SER | Special Elastomer Rubber |
| SER-G2 | Special Elastomer Rubber G2 |
| SER-HF | Special Elastomer Rubber Lshf |
| SHF | Polyolefine |
| SIR | Silicone |
| SPVC | Special Polyvinyl Chloride (Oil & Chemical Resistant) |
| TPE | Thermoplastic Elastomer |
| TRP | Thermoplastic Polyester Elastomer |
| X-HF | Cross Linked Halogen-Free Polyolefin Compound |
| XLPE | Cross Linked Polyethylene |

AWG to mm² Comparison and Resistance

NOTE: The diameters and cross-section areas indicated above are the effective figures were the conductors a solid rod.

The resistances indicated are according to the International Annealed Copper Standard (IACS) at 20°C.

For most Oxygen Free Copper (OFC) types the resistances indicated are accurate to a few percent.

| AWG | mm ² | RESISTANCE (ohm/m) |
|--------------|-----------------|--------------------|
| 4 / 0 = 0000 | 107.0 | 0.000161 |
| 3 / 0 = 000 | 85.0 | 0.000203 |
| 2 / 0 = 00 | 67.4 | 0.000256 |
| 1 / 0 = 0 | 53.5 | 0.000323 |
| 1 | 42.4 | 0.000407 |
| 2 | 33.6 | 0.000513 |
| 3 | 26.7 | 0.000647 |
| 4 | 21.1 | 0.000815 |
| 5 | 16.8 | 0.00103 |
| 6 | 13.3 | 0.00130 |
| 7 | 10.5 | 0.00163 |
| 8 | 8.36 | 0.00206 |
| 9 | 6.63 | 0.00260 |
| 10 | 5.26 | 0.00328 |
| 11 | 4.17 | 0.00413 |
| 12 | 3.31 | 0.00521 |
| 13 | 2.62 | 0.00657 |
| 14 | 2.08 | 0.00829 |
| 15 | 1.65 | 0.0104 |
| 16 | 1.31 | 0.0132 |
| 17 | 1.04 | 0.0166 |
| 18 | 0.823 | 0.0210 |
| 19 | 0.653 | 0.0264 |
| 20 | 0.518 | 0.0333 |
| 21 | 0.410 | 0.0420 |
| 22 | 0.326 | 0.0530 |
| 23 | 0.258 | 0.0668 |
| 24 | 0.205 | 0.0842 |
| 25 | 0.162 | 0.1060 |
| 26 | 0.129 | 0.1340 |
| 27 | 0.102 | 0.169 |
| 28 | 0.0810 | 0.213 |
| 29 | 0.0642 | 0.268 |
| 30 | 0.0509 | 0.339 |
| 31 | 0.0404 | 0.427 |
| 32 | 0.0320 | 0.538 |
| 33 | 0.0254 | 0.679 |
| 34 | 0.0201 | 0.856 |
| 35 | 0.0160 | 1.08 |
| 36 | 0.0127 | 1.36 |
| 37 | 0.0100 | 1.72 |
| 38 | 0.00797 | 2.16 |
| 39 | 0.00632 | 2.73 |
| 40 | 0.00501 | 3.44 |

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