

# Concentric Cable

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## APPLICATIONS

For internal space, in cable channels and free.

In power stations, in industrial units and in control equipments, if any mechanical protection isn't ordered.

## STRUCTURE

Conductor: Solid or stranded copper or aluminum / 8000 alloy conductor.

Insulation: XLPE, PVC, PE.

Neutral conductor: Coverage 100% and non-100% coverage.

External coverage: Weather resistant material, XLPE, PVC, PE.

## PROPERTY

Excellent resistance to oil , water, solvents, corrosives, sunlight, aging, cuts, tears and abrasions. Resistant to most oils and chemicals, good cut, tear and abrasion resistance. MP-GC is suitable for all horizontal mine power distribution, messenger assisted high line transmission and direct burial in wet or dry locations requiring MSHA flame and/or UL approval listings. Jacket will have permanent marking via indent printed legend.

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| IEC 60502-1 IEC 60228 600/1000v KS 04-1022 |                   |      |      |            |                         |      |              |       |                           |
|--------------------------------------------|-------------------|------|------|------------|-------------------------|------|--------------|-------|---------------------------|
| Size<br>(mm2)                              | Structure Size mm |      |      |            |                         |      |              |       | Copper cable<br>(kg/km)   |
|                                            | Concuctor         |      |      | Insulation | Concentric<br>conductor |      | Outer sheath |       |                           |
|                                            | Single wire       |      | Dia. | PVC        | Single wire             |      | UV-PVC       |       |                           |
|                                            | No.               | Dia. |      | Thick      | No.                     | Dia. | Thick        | Dia.  | (kg/km)                   |
| 10                                         | 7                 | 1.35 | 4.05 | 1.55       | 20                      | 0.85 | 1.4          | 11.79 | 301.55                    |
| 16                                         | 7                 | 1.7  | 5.1  | 1.55       | 32                      | 0.85 | 1.4          | 12.84 | 431.7                     |
| 25                                         | 7                 | 2.14 | 6.42 | 1.6        | 29                      | 1.13 | 1.5          | 15.02 | 647.46                    |
| 35                                         | 19                | 1.53 | 7.65 | 1.65       | 27                      | 1.35 | 1.6          | 16.85 | 853.68                    |
|                                            |                   |      |      |            |                         |      |              |       | Aluminum cable<br>(kg/km) |
| 10                                         | 7                 | 1.35 | 4.05 | 1.55       | 23                      | 1.13 | 1.4          | 12.21 | 200.73                    |
| 16                                         | 7                 | 1.7  | 5.1  | 1.55       | 26                      | 1.13 | 1.4          | 13.42 | 244.16                    |
| 25                                         | 7                 | 2.14 | 6.42 | 1.6        | 29                      | 1.13 | 1.5          | 15.02 | 307.3                     |
| 35                                         | 19                | 1.53 | 7.65 | 1.65       | 27                      | 1.35 | 1.6          | 16.99 | 390.15                    |

| CONDUCTOR                                                                     | COPPER                     |                            |                    |                       |      |      |          |                                   |                  |
|-------------------------------------------------------------------------------|----------------------------|----------------------------|--------------------|-----------------------|------|------|----------|-----------------------------------|------------------|
| SIZE/CONST.(A WG)                                                             | STRANDING                  |                            | NOMINAL O.D.(mils) | ALLOWABLE AMPACITIES* |      |      |          | APPROX. NET WEIGHT PER 1000'(lbs) | STANDARD PACKAGE |
|                                                                               | PHASE CONDUCTORS & NEUTRAL | EQUIPMENT GROUND CONDUCTOR |                    | 60°C                  | 75°C | 90°C | DWELLING |                                   |                  |
| SER TWO CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS"THREE CONDUCTOR") |                            |                            |                    |                       |      |      |          |                                   |                  |
| 8-8-8                                                                         | 7                          | -                          | 586                | 40                    | 50   | 55   | -        | 236                               | B                |
| 6-6-6                                                                         | 7                          | -                          | 669                | 55                    | 65   | 75   | -        | 342                               | B                |
| 4-4-4                                                                         | 7                          | -                          | 771                | 70                    | 85   | 95   | 100      | 499                               | B                |
| 3-3-3                                                                         | 7                          | -                          | 829                | 85                    | 100  | 110  | 110      | 611                               | B                |
| 2-2-2                                                                         | 7                          | -                          | 896                | 95                    | 115  | 130  | 125      | 752                               | B                |
| 1-1-1                                                                         | 19                         | -                          | 1021               | 110                   | 130  | 150  | 150      | 947                               | C                |
| 1/0-1/0-1/0                                                                   | 19                         | -                          | 1106               | 125                   | 150  | 170  | 175      | 1168                              | C                |
| 2/0-2/0-2/0                                                                   | 19                         | -                          | 1201               | 145                   | 175  | 195  | 200      | 1444                              | C                |
| 3/0-3/0-3/0                                                                   | 19                         | -                          | 1309               | 165                   | 200  | 225  | 225      | 1791                              | C                |
| 4/0-4/0-4/0                                                                   | 19                         | -                          | 1430               | 195                   | 230  | 260  | 250      | 2226                              | C                |

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| CONDUCTOR<br>SIZE/CONST.(AWG or<br>Kcmil)                                    | NOMINAL<br>O.D.(mils) | ALLOWABLE AMPACITIES* |      |      |          | APPROX.<br>NET WEIGHT<br>PER 1000 FT.<br>(lbs) |
|------------------------------------------------------------------------------|-----------------------|-----------------------|------|------|----------|------------------------------------------------|
|                                                                              |                       | 60°C                  | 75°C | 90°C | DWELLING |                                                |
| SER ALUMINUM TWO CONDUCTOR WITH BARE GROUND (FORMERLY REFERRED TO AS"EZ-SE") |                       |                       |      |      |          |                                                |
| 6-6-6                                                                        | 650                   | 40                    | 50   | 60   | -        | 150                                            |
| 4-4-4                                                                        | 745                   | 55                    | 65   | 75   | -        | 203                                            |
| 4-4-6                                                                        | 745                   | 55                    | 65   | 75   | -        | 203                                            |
| 2-2-2                                                                        | 864                   | 75                    | 90   | 100  | 100      | 290                                            |
| 2-2-4                                                                        | 864                   | 75                    | 90   | 100  | 100      | 290                                            |
| 2/0-2/0-1                                                                    | 1140                  | 115                   | 135  | 150  | 150      | 527                                            |
| 2/0-2/0-2/0                                                                  | 1140                  | 115                   | 135  | 150  | 150      | 527                                            |
| 4/0-4/0-2/0                                                                  | 1354                  | 150                   | 180  | 205  | 200      | 784                                            |
| 4/0-4/0-4/0                                                                  | 1354                  | 150                   | 180  | 205  | 200      | 784                                            |