

Technical Specification

Cable Type: Rigid Steel Armored Cables - 3+1 Conductors
Type 0.6/1 KV NYFGbY Stranded Copper Conductor PVC Insulation, Filler & Jacket Galvanized Steel Wire & Tape Armor

Western Wire Series: WPCG3+1

Revision: 02/02 Date: 26 November 2002



Four Conductor Armored Cables Type 0.6/1 KV NYFGbY, conforming to VDE 0271 and IEC 60502. Three conductors of main size, cabled with one additional conductor of a smaller size. Stranded copper conductor, PVC insulation & filler, galvanized flat served steel wire and helical galvanized steel tape armor covered with PVC jacket, for heavy-duty power supply in permanent underground and outdoor installations.

Cable Construction

| | |
|--------------------|---|
| Conductor | Stranded annealed bare copper conductors, conforming to ASTM B3 |
| Insulation | PVC compound, colored per request. |
| Filler | PVC compound. |
| First layer armor | Flat galvanized served steel wires. |
| Second layer armor | Helical galvanized steel tape. |
| Outer jacket | PVC compound, colored black. |
| Surface marking | Per request. |

Electrical Parameters

| | |
|-----------------------------------|-------------------|
| Maximum Operating Temperature | 70C |
| Maximum short circuit temperature | 160C for 5 S max. |
| Voltage Rating | 0.6/1 KV |

| WW P/N | Construction and Cross Section N x mm ² Nominal | Conductor Construction | DC Resistance @20C | Overall Diameter | Total Weight | Ampacity | |
|---------------|--|------------------------|--------------------|------------------|--------------|----------|-------------------|
| | | | Ohm/Km | mm | Kg/Km | Amperes | |
| | | | Maximum | Nominal | Nominal | Nominal | Underground @ 20C |
| WPCG3X16/10 | 3 x 16 + 10 | Stranded | 1.15/1.83 | 24.2 | 1418 | 97 | 80 |
| WPCG3X25/16 | 3 x 25 + 16 | Stranded | 0.727/1.15 | 28.0 | 1945 | 127 | 105 |
| WPCG3X35/16 | 3 x 35 + 16 | Stranded | 0.524/1.15 | 30.2 | 2325 | 157 | 130 |
| WPCG3X50/25 | 3 x 50 + 25 | Stranded | 0.387/0.727 | 34.5 | 3128 | 184 | 159 |
| WPCG3X70/35 | 3 x 70 + 35 | Stranded | 0.268/0.524 | 39.5 | 4115 | 227 | 202 |
| WPCG3X95/50 | 3 x 95 + 50 | Stranded | 0.193/0.387 | 44.8 | 5373 | 275 | 224 |
| WPCG3X120/70 | 3 x 120 + 70 | Stranded | 0.153/0.268 | 49.4 | 6618 | 313 | 282 |
| WPCG3X150/70 | 3 x 150 + 70 | Stranded | 0.124/0.268 | 53.5 | 7831 | 353 | 324 |
| WPCG3X185/95 | 3 x 185 + 95 | Stranded | 0.0991/0.193 | 59.1 | 9544 | 399 | 370 |
| WPCG3X240/120 | 3 x 240 + 120 | Stranded | 0.0754/0.153 | 66.0 | 12002 | 464 | 435 |
| WPCG3X300/150 | 3 x 300 + 150 | Stranded | 0.0601/0.124 | 72.7 | 14678 | 523 | 481 |