

Two Conductor Power Cable Gexol® Insulated

Extremely Flexible • 0.6/1kV • Rated 110°C

Insulation

GEXOL® cross-linked flame retardant polyolefin, meeting the requirements for Type P of IEEE 1580 and Type X110 of UL 1309/CSA 245.

Color code:
Black-White

1/0 and larger use insulation with printed phase I.D.



Conductor

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11.

Jacket

A black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA 245 and IEEE 1580.

Armor (Optional)

Basket weave wire armor per IEEE 1580 and UL 1309/CSA 245. Bronze standard. Tinned copper available by request.

Sheath (Optional)

A black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA 245 and IEEE 1580.

Ratings & Approvals (Other certifications pending)

- 110°C Temperature Rating
- American Bureau of Shipping (ABS)
- Transport Canada
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS)
- NVE 95/1696, FAL
- UL Listed as Marine Shipboard Cable (E111461)
- United States Coast Guard November 2, 1987 / 9304
- CSA listed as Marine Shipboard Cable

Application

Designed and constructed for the demanding environments of offshore drilling and petroleum facilities located throughout the world.

Features

- High strand count conductors make this product much more flexible, easier to install and more resistant to vibration than Type MC, IEC spec or commercial cables.
- Gexol's lower dielectric constant and higher insulation resistance reduces electrical losses.
- Gexol's excellent resistance to moisture produces stable electrical properties throughout the life of the cable.
- In a fire condition, Gexol's nonchlorinated flame retardant system produces less toxic and less corrosive gases.
- Dual certified IEEE 1580 Type P and UL 1309/CSA 245 Type X110.
- Highest ampacity ratings: ABS 100°C, DNV 95°C, LRS 95°C, Transport Canada 95°C.
- Severe cold durability: exceeds CSA cold bend/cold impact (-40°C/-35°C).
- Flame retardant: IEC 332-3 Category A and IEEE 1202.
- Suitable for use in Class I, Division 1 and Zone 1 environments (armored and sheathed).
- Optional braid armor of bronze or tinned copper.

| Hawke Gland Types | Unarmored | Armored & Sheathed |
|-------------------------------|---|--|
| Industrial & Safe Area (IP68) | 121 | 153-X |
| Increased Safety "EExe" | 501/421 | 501/453/U |
| Explosion Proof | 710 Class I, Div. 2 Class I, Zone 2 | 753 Class I, Div. 1 Class I, Zone 1 & 2 |
| Flameproof "EExd" | 501/421 Zone 1 & 2 | 501/453/U (2 liter or < enclosures) ICG 653/U (2 liter or > enclosures) Zone 1 & 2 |

Gexol® Flexible Power Cable – Two Conductor

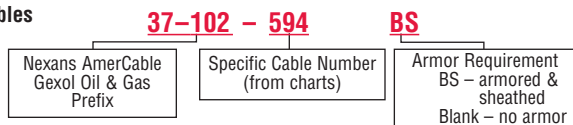
| Size AWG/ kcmil | mm2 | Part No. 37-102 | Unarmored | | Armored (B) | | Armored and Sheath (BS) | | DC Resistance at 25°C (Ohms/ 1000 ft.) | AC Resistance 110°C, 60 Hz (Ohms/ 1000 ft.) | Inductive Reactance (Ohms / 1000 ft.) | Voltage Drop 110°C (Volts/Amp/ 1000 ft.) | Ampacity | | |
|-----------------------|------|-----------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|--|--|--|--|----------|-------|------|
| | | | Nominal Diameter (inches) | Weight (lbs/ MFt.) | Nominal Diameter (inches) | Weight (lbs/ MFt.) | Nominal Diameter (inches) | Weight (lbs/ MFt.) | | | | | 110°C | 100°C | 95°C |
| 16 | 1.3 | -501 | 0.349 | 89 | 0.399 | 122 | 0.540 | 227 | 4.610 | 6.121 | 0.039 | 8.511 | 20 | 19 | 20 |
| 14 | 2.1 | -507 | 0.380 | 84 | 0.430 | 145 | 0.561 | 204 | 2.907 | 3.859 | 0.036 | 5.379 | 33 | 31 | 27 |
| 12 | 3.3 | -515 | 0.450 | 111 | 0.500 | 178 | 0.630 | 241 | 1.826 | 2.424 | 0.034 | 3.390 | 43 | 40 | 32 |
| 10 | 5.2 | -553 | 0.460 | 146 | 0.510 | 254 | 0.671 | 287 | 1.153 | 1.530 | 0.032 | 2.151 | 53 | 49 | 43 |
| 8 | 7.6 | -209 | 0.610 | 262 | 0.660 | 263 | 0.785 | 463 | 0.708 | 0.940 | 0.034 | 1.336 | 69 | 64 | 58 |
| 6 | 12.5 | -210 | 0.680 | 361 | 0.730 | 439 | 0.895 | 629 | 0.445 | 0.590 | 0.032 | 0.850 | 91 | 85 | 77 |
| 4 | 21 | -594 | 0.885 | 603 | 0.935 | 697 | 1.120 | 927 | 0.300 | 0.399 | 0.029 | 0.582 | 118 | 110 | 103 |
| 1/0 | 54 | -216 | 1.243 | 1199 | 1.293 | 1397 | 1.475 | 1714 | 0.117 | 0.156 | 0.028 | 0.245 | 213 | 199 | 184 |
| 4/0 | 109 | -219 | 1.560 | 2379 | 1.645 | 2377 | 1.877 | 3065 | 0.059 | 0.080 | 0.026 | 0.138 | 329 | 307 | 285 |

Cable diameters shown as nominal are subject to a ±5% manufacturing tolerance

Ordering Gexol Oil & Gas Cables

Example:

- 2 conductor power cable
- 0.6/1kV
- #4 AWG
- bronze armored & sheathed



See page 29 for
Stranding Profile

