

MULTI-CONDUCTOR CONTROL CABLE GEXOL® INSULATED

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

Conductors

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.

Color code:
IEEE 1580 Table 22

Sheath (Optional)

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

Color code:
IEEE 1580 Table 22



Insulation

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

Colored singles through 37/C.

Black ink printed singles above 37/C.

Armor (Optional)

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

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.

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

| 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 CONTROL CABLE – MULTI-CONDUCTOR

| Size AWG | Number of Conductors* | Part No. 37-102 | Unarmored | | Armored (B) | | Armored and Sheath (BS) | | 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 | 4 | -529 | 0.433 | 97 | 0.483 | 160 | 0.620 | 222 |
| 16 | 5 | -559 | 0.469 | 117 | 0.519 | 186 | 0.640 | 252 | 14 | 13 | 13 |
| 16 | 7 | -505 | 0.515 | 147 | 0.565 | 306 | 0.678 | 376 | 12 | 11 | 11 |
| 16 | 8 | -503 | 0.581 | 202 | 0.631 | 289 | 0.763 | 372 | 12 | 11 | 11 |
| 16 | 10 | -504 | 0.635 | 251 | 0.685 | 322 | 0.880 | 465 | 9 | 8 | 11 |
| 16 | 16 | -546 | 0.720 | 333 | 0.770 | 441 | 0.960 | 620 | 9 | 8 | 11 |
| 16 | 20 | -687 | 0.786 | 382 | 0.836 | 514 | 1.010 | 682 | 9 | 8 | 11 |
| 16 | 24 | -525 | 0.900 | 549 | 0.950 | 646 | 1.155 | 900 | 8 | 7 | 11 |
| 16 | 37 | -526 | 1.048 | 731 | 1.105 | 869 | 1.280 | 1125 | 6 | 6 | 8 |
| 16 | 44 | -577 | 1.175 | 947 | 1.225 | 1133 | 1.400 | 1177 | 6 | 6 | 8 |
| 16 | 60 | -527 | 1.262 | 1117 | 1.312 | 1315 | 1.485 | 1575 | 6 | 6 | 8 |
| 16 | 91 | -581 | 1.550 | 1612 | 1.600 | 1876 | 1.830 | 2302 | 6 | 6 | 8 |
| 14 | 4 | -509 | 0.438 | 126 | 0.488 | 196 | 0.650 | 262 | 27 | 25 | 22 |
| 14 | 5 | -510 | 0.479 | 153 | 0.529 | 229 | 0.690 | 306 | 21 | 20 | 18 |
| 14 | 6 | -511 | 0.561 | 200 | 0.611 | 287 | 0.730 | 434 | 21 | 20 | 18 |
| 14 | 7 | -521 | 0.551 | 223 | 0.601 | 296 | 0.735 | 414 | 19 | 18 | 15 |
| 14 | 10 | -512 | 0.690 | 327 | 0.740 | 403 | 0.900 | 599 | 14 | 13 | 15 |
| 14 | 12 | -585 | 0.714 | 356 | 0.764 | 449 | 0.960 | 637 | 14 | 13 | 15 |
| 14 | 14 | -523 | 0.760 | 417 | 0.810 | 549 | 0.980 | 709 | 14 | 13 | 15 |
| 14 | 20 | -513 | 0.935 | 598 | 0.985 | 708 | 1.160 | 958 | 14 | 13 | 15 |
| 14 | 24 | -571 | 1.025 | 721 | 1.075 | 829 | 1.245 | 1026 | 12 | 11 | 15 |
| 14 | 30 | -573 | 1.075 | 779 | 1.125 | 955 | 1.310 | 1179 | 12 | 11 | 13 |
| 14 | 37 | -514 | 1.153 | 969 | 1.203 | 1120 | 1.398 | 1405 | 11 | 10 | 13 |
| 14 | 44 | -574 | 1.271 | 1089 | 1.321 | 1293 | 1.500 | 1502 | 10 | 9 | 11 |
| 14 | 91 | -582 | 1.772 | 2424 | 1.822 | 2723 | 2.089 | 3168 | 10 | 9 | 11 |
| 12 | 4 | -517 | 0.516 | 201 | 0.566 | 247 | 0.668 | 319 | 33 | 31 | 27 |
| 12 | 5 | -560 | 0.561 | 226 | 0.611 | 315 | 0.743 | 421 | 27 | 25 | 22 |
| 12 | 6 | -547 | 0.611 | 282 | 0.661 | 397 | 0.814 | 491 | 27 | 25 | 22 |
| 12 | 10 | -518 | 0.770 | 434 | 0.820 | 509 | 1.016 | 732 | 17 | 16 | 19 |
| 12 | 20 | -519 | 1.020 | 805 | 1.070 | 942 | 1.259 | 1194 | 17 | 16 | 19 |
| 12 | 24 | -572 | 1.135 | 1033 | 1.185 | 1162 | 1.360 | 1352 | 15 | 14 | 19 |
| 12 | 37 | -520 | 1.293 | 1270 | 1.343 | 1481 | 1.550 | 1809 | 13 | 12 | 16 |

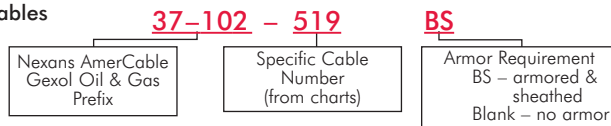
* Colored singles through 37/C. Black ink printed singles above 37/C.

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

Ordering Gexol Oil & Gas Cables

Example:

- Multi-Conductor control cable
- 0.6/1kV
- #12 AWG
- bronze armored & sheathed



See page 29
for
Stranding
Profile

GEXOL® is a registered trademark
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