

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

Sheath (Optional)

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



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.

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) 99-BT5905-X
- Transport Canada 8700-20-2
- Det Norske Veritas (DNV) E-6669, E-6388, E-6390, E-6391
- Lloyd's Register of Shipping (LRS) 91/60333 (E6)
- 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 (82346)

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

Flexible Power Cable – Two Conductor

Size AWG/ kcmil	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	95°C
16	1.3	0.373	75	0.423	141	0.554	202	4.610	6.121	0.039	8.511	20	19
14	2.1	0.403	95	0.453	165	0.584	230	2.907	3.859	0.036	5.379	33	31
12	3.3	0.441	117	0.491	194	0.622	263	1.826	2.424	0.034	3.390	43	40
10	5.2	0.481	148	0.531	233	0.662	307	1.153	1.530	0.032	2.151	53	49
8	7.6	0.600	221	0.650	327	0.781	416	0.708	0.940	0.034	1.336	69	64
6	12.5	0.680	308	0.730	424	0.903	559	0.445	0.590	0.032	0.850	91	85
4	21	0.887	516	0.937	664	1.110	835	0.300	0.399	0.029	0.582	118	110
1/0	54	1.243	1128	1.293	1334	1.466	1562	0.117	0.156	0.028	0.245	213	199
4/0	109	1.593	2003	1.643	2271	1.878	2680	0.059	0.080	0.026	0.138	329	307

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

See page 2 for
Stranding Profile

Ordering Gexol Oil & Gas Cables

Example:

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

37-102 - 594

BS

AmerCable Gexol
Oil & Gas Prefix

Specific Cable Number
(from charts)

Armor Requirement
BS – armored &
sheathed
Blank – no armor