

FIVE CONDUCTOR POWER 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.

Armor (Optional)

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



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-Red-Green-Orange
1/0 and larger use insulation with printed phase I.D.

Sheath (Optional)

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

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

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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 – FIVE 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
			18	1.0	-558	0.445	111	0.495					181	0.635	248
16	1.3	-559	0.437	117	0.487	186	0.640	252	4.610	6.121	0.042	8.514	14	13	13
14	2.1	-510	0.479	153	0.528	229	0.690	306	2.907	3.859	0.039	5.382	21	20	18
12	3.3	-560	0.561	237	0.612	315	0.743	421	1.826	2.424	0.037	3.393	27	25	22
10	5.2	-561	0.620	317	0.670	402	0.805	528	1.153	1.530	0.035	2.154	35	33	29
8	7.6	-562	0.770	447	0.820	575	1.015	760	0.708	0.940	0.037	1.339	45	42	38
6	12.5	-563	0.915	715	0.965	829	1.140	1065	0.445	0.590	0.035	0.853	60	56	51
4	21	-565	1.140	1152	1.190	1469	1.365	1553	0.300	0.399	0.032	0.585	79	74	68
2	34	-566	1.350	1580	1.400	1833	1.608	2097	0.184	0.244	0.030	0.369	105	98	90
1	43	-567	1.510	2000	1.560	2477	1.800	2592	0.147	0.195	0.031	0.302	122	114	105
1/0	54	-568	1.618	2312	1.668	2580	1.935	2991	0.117	0.156	0.030	0.248	140	131	122
2/0	70	-569	1.821	3213	1.872	3505	2.139	3962	0.093	0.125	0.030	0.203	161	150	140
4/0	109	-746	2.151	4404	2.202	4752	2.455	5263	0.058	0.080	0.029	0.140	216	202	188

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

See page 29 for
Stranding Profile

Ordering Gexol Oil & Gas Cables

Example:

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

