

Three Conductor Power Cable Gexol® Insulated

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

Conductor

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

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
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.



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.

An uninsulated ground conductor may be incorporated on a make-to-order basis.

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 – Three Conductor

Size AWG/ kcmil	mm ²	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.)	Opt. Uninsulated Grounding Cond. Size AWG	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	-502	0.369	80	0.419						138	0.572	246
14	2.1	-508	0.401	103	0.451	167	0.599	228	2.907	3.859	0.036	5.379	–	27	25	22
12	3.3	-516	0.445	138	0.495	209	0.648	275	1.826	2.424	0.034	3.390	–	33	31	27
10	5.2	-308	0.488	185	0.538	262	0.690	334	1.153	1.530	0.032	2.151	–	44	41	36
8	7.6	-309	0.640	316	0.690	397	0.820	533	0.708	0.940	0.034	1.336	–	56	52	48
6	12.5	-310	0.735	449	0.785	546	0.960	734	0.445	0.590	0.032	0.850	8	75	70	64
4	21	-312	0.950	754	1.000	862	1.185	1108	0.300	0.399	0.029	0.582	6	99	92	85
2	34	-314	1.100	1079	1.150	1209	1.345	1489	0.184	0.244	0.028	0.366	6	131	122	113
1	43	-315	1.230	1375	1.280	1516	1.455	1810	0.147	0.195	0.028	0.299	6	153	143	131
1/0	54	-316	1.335	1667	1.385	1814	1.571	2160	0.117	0.156	0.028	0.245	6	176	164	152
2/0	70	-317	1.485	2062	1.535	2278	1.685	2532	0.093	0.125	0.027	0.200	4	201	188	175
3/0	86	-318	1.560	2458	1.610	2869	1.825	2909	0.074	0.100	0.027	0.166	4	234	218	202
4/0	109	-319	1.764	3197	1.814	3194	2.068	4034	0.058	0.080	0.026	0.138	3	270	252	235
262	132	-320	2.005	3896	2.055	4233	2.260	4824	0.048	0.067	0.026	0.119	3	315	294	267
313	159	-321	2.100	4269	2.150	4481	2.373	5061	0.040	0.056	0.026	0.105	3	344	321	299
373	189	-322	2.250	4903	2.300	5265	2.550	6327	0.034	0.047	0.025	0.092	2	387	361	334
444	227	-323	2.378	6219	2.428	6089	2.682	7344	0.028	0.041	0.025	0.083	1	440	411	372
535	273	-324	2.700	7279	2.750	7717	3.045	8299	0.024	0.035	0.026	0.075	1	498	443	418
646	326	-326	2.880	8101	2.938	8873	3.295	9838	0.020	0.030	0.026	0.068	1/0	553	516	470
777	394	-327	3.175	10077	3.225	10590	3.554	11549	0.016	0.026	0.026	0.063	1/0	602	562	529

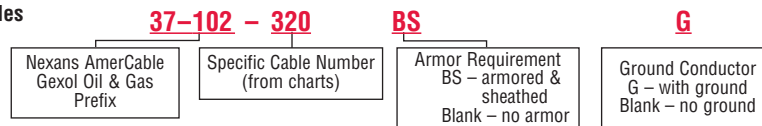
Cable diameters shown as nominal are subject to a ±5% manufacturing tolerance

See page 29 for Stranding Profile

Ordering Gexol Oil & Gas Cables

Example:

- 3 conductor power cable
- 0.6/1kV
- bronze armored & sheathed
- with ground



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