

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

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. Aluminum or tinned copper available by request.

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

Ratings & Approvals

- 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

Other certifications pending

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 1 Division 1, and Zone 1 environments (armored and sheathed).
- Optional braid armor of bronze, aluminum 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 1 Div. 2 Class 1, Zone 2	753 Class 1 Div. 1 Class 1, 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



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Flexible Power Cable – Three Conductor

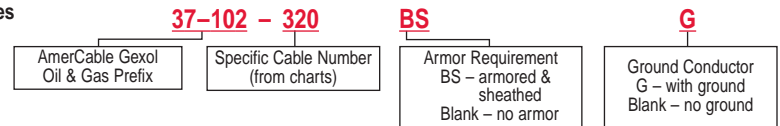
Size AWG/ kcmil	mm2	Part No. 37-102	Unarmored		Armored (B)		Armored and Sheath (BS)		DC Resistance at 25°C (Ohms/1000 ft.)	AC Resistance 110°C, 60 Hz (Ohms/1000 ft.)	Inductive Reactance (Ohms /1000 ft.)	Voltage Drop 110°C (Volts/Amp/1000 ft.)	Opt. Uninsulated Grounding Cond. Size AWG	Ampacity		
			Nominal 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	0.392	66	0.442	128	0.573	182	4.610	6.121	0.039	8.511	–	17	16	16
14	2.1	-508	0.424	102	0.474	176	0.605	236	2.907	3.859	0.036	5.379	–	27	25	22
12	3.3	-516	0.465	133	0.515	212	0.645	276	1.826	2.424	0.034	3.390	–	33	31	27
10	5.2	-308	0.508	189	0.558	281	0.689	352	1.153	1.530	0.032	2.151	–	44	41	36
8	7.6	-309	0.637	274	0.687	385	0.818	477	0.708	0.940	0.034	1.336	–	56	52	48
6	12.5	-310	0.723	390	0.773	519	0.946	650	0.445	0.590	0.032	0.850	8	75	70	64
4	21	-312	0.942	678	0.992	843	1.165	1004	0.300	0.399	0.029	0.582	8	99	92	85
2	34	-314	1.084	987	1.134	1160	1.307	1374	0.184	0.244	0.028	0.366	6	131	122	113
1	43	-315	1.206	1234	1.256	1458	1.431	1675	0.147	0.195	0.028	0.299	6	153	143	131
1/0	54	-316	1.326	1448	1.376	1781	1.550	2015	0.117	0.156	0.028	0.245	6	176	164	152
2/0	70	-317	1.422	1945	1.472	2082	1.645	2424	0.093	0.125	0.027	0.200	6	201	188	175
3/0	86	-318	1.528	2379	1.578	2720	1.814	3106	0.074	0.100	0.027	0.166	4	234	218	202
4/0	109	-319	1.765	2864	1.815	3233	2.050	3652	0.058	0.080	0.026	0.138	4	270	252	235
262	132	-320	1.980	3452	2.030	3880	2.266	4434	0.048	0.067	0.026	0.119	3	315	294	267
313	159	-321	2.131	4023	2.181	4434	2.418	4919	0.040	0.056	0.026	0.105	3	344	321	299
373	189	-322	2.231	4772	2.281	5219	2.517	5718	0.034	0.047	0.025	0.092	3	387	361	334
444	227	-323	2.394	5670	2.444	6176	2.680	6864	0.028	0.041	0.025	0.083	2	440	411	372
535	273	-324	2.637	6784	2.687	7492	2.986	8250	0.024	0.035	0.026	0.075	2	498	465	418
646	326	-326	2.958	7961	3.008	8414	3.301	9258	0.020	0.030	0.026	0.068	1	553	516	470
777	394	-327	3.168	9573	3.218	10065	3.511	10945	0.016	0.026	0.026	0.063	1	602	562	529

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

See page 2 for
Stranding Profile

Ordering Gexol Oil & Gas Cables

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



GEXOL® is a registered trademark of AmerCable Incorporated

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