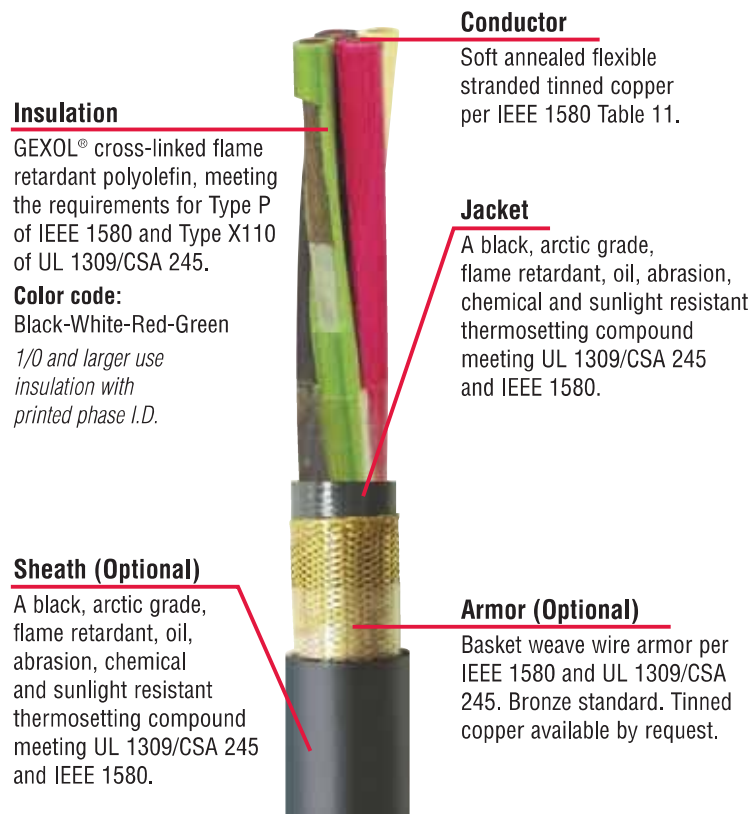


37-102

Four 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-Red-Green

1/0 and larger use insulation with printed phase I.D.

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.

Sheath (Optional)

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 – Four Conductor

			Unarmored		Armored (B)		Armored and Sheath (BS)									
Size AWG/ kcmil	mm2	Part No. 37-102	Nominal Diameter (inches)	Weight (lbs/ Mft.)	Nominal Diameter (inches)	Weight (lbs/ Mft.)	Nominal Diameter (inches)	Weight (lbs/ Mft.)	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		
														110°C	100°C	95°C
16	1.3	-529	0.402	97	0.452	160	0.620	222	4.610	6.121	0.042	8.514	—	17	16	16
14	2.1	-509	0.438	126	0.488	196	0.650	262	2.907	3.859	0.039	5.382	—	27	25	22
12	3.3	-517	0.486	170	0.536	247	0.668	319	1.826	2.424	0.037	3.393	—	33	31	27
10	5.2	-408	0.585	267	0.635	361	0.788	458	1.153	1.530	0.035	2.154	—	44	41	36
8	7.6	-409	0.710	375	0.760	489	0.930	668	0.708	0.940	0.037	1.339	—	56	52	48
6	12.5	-410	0.795	563	0.845	661	1.040	872	0.445	0.590	0.035	0.853	8	75	70	64
4	21	-412	1.040	898	1.100	1066	1.295	1272	0.300	0.399	0.032	0.585	6	99	92	85
2	34	-414	1.191	1358	1.241	1476	1.472	1734	0.184	0.244	0.030	0.369	6	131	122	113
1	43	-415	1.370	1732	1.420	1817	1.610	2222	0.147	0.195	0.031	0.302	6	153	143	131
1/0	54	-416	1.470	2042	1.520	2278	1.775	2642	0.117	0.156	0.030	0.248	6	176	164	152
2/0	70	-417	1.610	2715	1.660	2807	1.914	3441	0.093	0.125	0.030	0.203	4	201	188	175
3/0	86	-418	1.786	3234	1.836	3333	2.103	3781	0.074	0.100	0.029	0.168	4	234	218	202
4/0	109	-419	1.985	4043	2.035	4376	2.304	4957	0.058	0.080	0.029	0.140	3	270	252	235
262	132	-420	2.203	4699	2.253	5051	2.500	5595	0.048	0.067	0.029	0.122	3	315	294	267
313	159	-421	2.325	5506	2.375	5879	2.587	6358	0.040	0.056	0.028	0.107	3	344	321	299
373	189	-422	2.475	6417	2.525	6813	2.840	8270	0.034	0.047	0.028	0.095	2	387	361	334
444	227	-423	2.675	7532	2.726	8068	3.054	8886	0.028	0.041	0.028	0.086	1	440	411	372
535	273	-424	3.025	9634	3.075	9849	3.417	10770	0.024	0.035	0.028	0.077	1	463	443	418
646	326	-426	3.215	11600	3.265	11840	3.590	12895	0.020	0.030	0.029	0.071	1/0	553	516	470

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

See page 29 for Stranding Profile

Ordering Gexol Oil & Gas Cables

Example:

- 4 conductor power cable
- 0.6/1kV
- #6 AWG
- bronze armored & sheathed
- with ground

