

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

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. Aluminum or tinned copper available by request.

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

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.

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

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

Flexible Power Cable – Four Conductor

Size AWG/ kcmil	Part No.	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	95°C
16	1.3	0.423	99	0.473	154	0.604	227	4.610	6.121	0.042	8.514	-	17	16
14	2.1	0.459	128	0.509	213	0.640	275	2.907	3.859	0.039	5.382	-	27	25
12	3.3	0.505	168	0.555	256	0.686	323	1.826	2.424	0.037	3.393	-	33	31
10	5.2	0.553	243	0.603	313	0.734	390	1.153	1.530	0.035	2.154	-	44	41
8	7.6	0.698	355	0.748	466	0.921	591	0.708	0.940	0.037	1.339	-	56	52
6	12.5	0.794	533	0.844	669	1.017	808	0.445	0.590	0.035	0.853	8	75	70
4	21	1.035	879	1.085	1062	1.258	1236	0.300	0.399	0.032	0.585	8	99	92
2	34	1.194	1120	1.244	1345	1.417	1677	0.184	0.244	0.030	0.369	6	131	122
1	43	1.332	1602	1.382	1909	1.555	2144	0.147	0.195	0.031	0.302	6	153	143
1/0	54	1.465	1907	1.515	2180	1.750	2434	0.117	0.156	0.030	0.248	6	176	164
2/0	70	1.573	2535	1.623	2665	1.859	3050	0.093	0.125	0.030	0.203	6	201	188
3/0	86	1.754	3206	1.804	3578	2.040	4003	0.074	0.100	0.029	0.168	4	234	218
4/0	109	1.964	3765	2.014	4214	2.249	4670	0.058	0.080	0.029	0.140	4	270	252
262	132	2.205	4625	2.255	4795	2.490	5610	0.048	0.067	0.029	0.122	3	315	294
313	159	2.374	5367	2.424	5868	2.659	6395	0.040	0.056	0.028	0.107	3	344	321
373	189	2.495	6462	2.545	6853	2.838	7576	0.034	0.047	0.028	0.095	3	387	361
444	227	2.653	7560	2.703	7987	3.002	8760	0.028	0.041	0.028	0.086	2	440	411
535	273	2.989	9284	3.039	9762	3.338	10570	0.024	0.035	0.028	0.077	2	463	432
646	326	3.277	10571	3.327	10946	3.620	11840	0.020	0.030	0.029	0.071	1	553	516

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

Ordering Gexol Oil & Gas Cables

Example:

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

37-102 – **410**

BS

G

AmerCable Gexol
Oil & Gas Prefix

Specific Cable Number
(from charts)

Armor Requirement
BS – armored &
sheathed
Blank – no armor

Ground Conductor
G – with ground
Blank – no ground

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