

37-104 Gexol® - 331HF Fire Resistant Four Conductor Power Cable Low Smoke Halogen-Free

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

Insulation

Fire resistant tape + GEXOL®-HF low smoke Halogen-Free flame retardant cross-linked polyolefin, meeting the requirements for Type LSX of IEEE 1580 and Type X110 of UL 1309/CSA 245.

Color code:

Black-White-Red-Green

Sheath (Optional)

A black low smoke Halogen-Free flame retardant polyolefin, meeting IEEE 1580 and UL 1309/CSA 245.



Conductor

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

Jacket

A black low smoke Halogen-Free flame retardant polyolefin, meeting IEEE 1580 and UL 1309/CSA 245.

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
- UL Listed as Marine Shipboard Cable (E111461)
- Transport Canada (pending)
- Det Norske Veritas (DNV) (pending)
- Lloyd's Register of Shipping (LRS) (pending)

Application

Designed and constructed for the demanding environments of offshore drilling and petroleum facilities located throughout the world. Primarily used on critical circuits that must continue to function even in a fire condition. This product should be used on any circuit dedicated to emergency lighting, fire detection/suppression, alarms and personnel egress.

Features

- Fire resistant: IEC 60331.
- Flame retardant: IEC 332-3 Category A and IEEE 1202.
- Low smoke and Halogen-Free.
- High strand count conductors make this product more flexible and easier to install than IEC 60092-350 Series cables.
- Higher temperature rating results in higher ampacity ratings.
- Severe cold durability: exceeds CSA cold bend/cold impact (-40°C/-35°C).
- Suitable for use in Class I, 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 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

Flexible Power Cable – Four Conductor

Size AWG/ kcmil	Part No. 37-104	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	0.479	113	0.529	176	0.668	259	4.610	6.121	0.045	8.518	-	17	16	16
14	2.1	0.515	146	0.565	243	0.704	314	2.907	3.859	0.042	5.385	-	27	25	22
12	3.3	0.571	192	0.621	292	0.761	368	1.826	2.424	0.039	3.396	-	33	31	27
10	5.2	0.609	277	0.659	357	0.798	455	1.153	1.530	0.037	2.157	-	44	41	36
8	7.6	0.754	405	0.804	531	0.985	674	0.708	0.940	0.039	1.341	-	56	52	48
6	12.5	0.850	608	0.900	763	1.081	921	0.445	0.590	0.036	0.855	8	75	70	64
4	21	1.091	1002	1.141	1211	1.322	1409	0.300	0.399	0.033	0.586	8	99	92	85
2	34	1.250	1277	1.300	1533	1.481	1912	0.184	0.244	0.032	0.370	6	131	122	113
1	43	1.388	1826	1.438	2176	1.619	2444	0.147	0.195	0.032	0.303	6	153	143	131
1/0	54	1.521	2174	1.571	2485	1.814	2775	0.117	0.156	0.031	0.249	6	176	164	152
2/0	70	1.629	2890	1.679	3038	1.923	3477	0.093	0.125	0.030	0.204	6	201	188	175
3/0	86	1.810	3655	1.860	4079	2.104	4563	0.074	0.100	0.030	0.169	4	234	218	202
4/0	109	2.020	4292	2.070	4804	2.313	5324	0.058	0.080	0.029	0.141	4	270	252	235
262	132	2.261	5273	2.311	5466	2.554	6395	0.048	0.067	0.029	0.123	3	315	294	267
313	159	2.430	6118	2.480	6689	2.723	7290	0.040	0.056	0.029	0.108	3	344	321	299
373	189	2.551	7367	2.601	7812	2.902	8637	0.034	0.047	0.029	0.095	3	387	361	334
444	227	2.709	8618	2.759	9105	3.066	9986	0.028	0.041	0.028	0.086	2	440	411	372
535	273	3.045	10584	2.095	11129	3.402	12050	0.024	0.035	0.029	0.078	2	463	432	418
646	326	3.333	12051	3.383	12478	3.684	13498	0.020	0.030	0.029	0.071	1	553	516	470

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

GEXOL® is a registered trademark of
AmerCable Incorporated

Ordering Gexol-331HF Cables

Example:

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

37-104 - 410

BS

G

AmerCable
Gexol-331HF Prefix

Specific Cable Number
(from table)

Armor Requirement
BS - armored &
sheathed
Blank - no armor

Ground Conductor
G - with ground
Blank - no ground