

# Gexol® - 331HF Fire Resistant Three Conductor Power Cable Low Smoke Halogen-Free

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

## Conductor

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

## 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

## Sheath (Optional)

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



## 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.

## 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.

## 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)

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 – Three 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	95°C
16	1.3	-502	75	0.493	146	0.632	207	4.610	6.121	0.042	8.515	-	17	16
14	2.1	-508	136	0.525	211	0.664	293	2.907	3.859	0.039	5.382	-	27	25
12	3.3	-516	185	0.585	292	0.726	352	1.826	2.424	0.037	3.993	-	33	31
10	5.2	-308	234	0.635	343	0.775	455	1.153	1.530	0.035	2.154	-	44	41
8	7.6	-309	335	0.688	443	0.919	595	0.708	0.940	0.036	1.338	-	56	52
6	12.5	-310	456	0.816	576	0.997	742	0.445	0.590	0.034	0.852	8	75	70
4	21	-312	773	1.043	961	1.224	1145	0.300	0.399	0.030	0.583	8	99	92
2	34	-314	1125	1.185	1102	1.366	1566	0.184	0.244	0.029	0.368	6	131	122
1	43	-315	1407	1.307	1662	1.490	1910	0.147	0.195	0.029	0.300	6	153	143
1/0	54	-316	1651	1.427	2030	1.609	2297	0.117	0.156	0.028	0.246	6	176	164
2/0	70	-317	2217	1.523	2373	1.767	2763	0.093	0.125	0.028	0.201	6	201	188
3/0	86	-318	2495	1.643	2748	1.883	3176	0.074	0.100	0.027	0.166	4	234	218
4/0	109	-319	3174	1.843	3456	2.084	3933	0.058	0.080	0.027	0.138	4	270	252
262	132	-320	3935	2.081	4423	2.325	5055	0.048	0.067	0.027	0.120	3	315	294
313	159	-321	4554	2.203	4901	2.443	5465	0.040	0.056	0.026	0.105	3	344	321
373	189	-322	5285	2.357	5657	2.597	6258	0.034	0.047	0.026	0.092	3	387	361
444	227	-323	6464	2.495	7041	2.739	7925	0.028	0.041	0.026	0.083	2	440	411
535	273	-324	7734	2.738	8541	3.045	9405	0.024	0.035	0.026	0.075	2	498	465
646	326	-326	9075	3.059	9592	3.360	10554	0.020	0.030	0.026	0.069	1	553	516
777	394	-327	10913	3.269	11474	3.670	12477	0.016	0.026	0.026	0.063	1	602	562

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:

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

**37-104 - 320**

AmerCable  
Gexol-331HF Prefix

Specific Cable Number  
(from table)

**BS**

Armor Requirement  
BS - armored &  
sheathed  
Blank - no armor

**G**

Ground Conductor  
G - with ground  
Blank - no ground