

# 37-104 Gexol®-331HF Fire Resistant Two 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

## 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.



## 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 – Two 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.)	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	0.421	86	0.471	161	0.610	4.610	6.121	0.042		8.515	20	19
14	2.1	0.451	108	0.501	188	0.640	2.907	3.859	0.039		5.382	33	31
12	3.3	0.508	133	0.558	221	0.697	1.826	2.424	0.037		3.393	43	40
10	5.2	0.529	169	0.579	266	0.718	1.153	1.530	0.035		2.154	53	49
8	7.6	0.648	252	0.698	373	0.837	0.708	0.940	0.036		1.338	69	64
6	12.5	0.728	351	0.778	483	0.959	0.445	0.590	0.034		0.852	91	85
4	21	0.935	588	0.985	757	1.166	0.300	0.399	0.030		0.583	118	110
1/0	54	1.291	1286	1.341	1521	1.522	0.117	0.156	0.028		0.246	213	199
4/0	109	1.641	2283	1.691	2589	1.934	0.058	0.080	0.027		0.138	329	307

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

### Ordering Gexol-331HF Cables

Example:

- Two conductor power cable
- 0.6/1kV
- #4 AWG
- bronze armored & sheathed

AmerCable  
Gexol-331HF Prefix

Specific Cable Number  
(from table)

**37-104 - 594**

**BS**

Armor Requirement  
BS – armored &  
sheathed  
Blank – no armor