

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

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

Conductors

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.



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-Orange

Sheath (Optional)

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

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 – Five Conductor

Size AWG/ kcmil	mm ²	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	100°C	95°C
18	1.0	-558	0.493	114	0.543	195	0.682	252	7.354	9.763	0.048	13.562	11	10	11
16	1.3	-559	0.518	125	0.568	215	0.709	301	4.610	6.121	0.045	8.518	14	13	13
14	2.1	-510	0.560	170	0.610	267	0.749	343	2.907	3.859	0.042	5.385	21	20	18
12	3.3	-560	0.612	223	0.662	303	0.814	381	1.826	2.424	0.039	3.396	27	25	22
10	5.2	-561	0.666	337	0.716	463	0.897	563	1.153	1.530	0.037	2.157	35	33	29
8	7.6	-562	0.827	516	0.877	649	1.058	803	0.708	0.940	0.039	1.341	45	42	38
6	12.5	-563	0.976	744	1.026	927	1.207	1109	0.445	0.590	0.036	0.855	60	56	51
4	21	-565	1.199	1223	1.249	1473	1.430	1688	0.300	0.399	0.033	0.586	79	74	68
2	34	-566	1.377	1552	1.427	1866	1.608	2116	0.184	0.244	0.032	0.370	105	98	90
1	43	-567	1.532	2428	1.582	2499	1.826	2829	0.147	0.195	0.032	0.303	122	114	105
1/0	54	-568	1.680	2907	1.730	3130	1.973	3543	0.117	0.156	0.031	0.249	140	131	122
2/0	70	-569	1.864	3368	1.914	3763	2.158	4257	0.093	0.125	0.030	0.204	161	150	140
4/0	109	-746	2.229	4121	2.279	4509	2.523	5235	0.058	0.080	0.029	0.141	216	202	188

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

Ordering Gexol-331HF Cables

Example:

- Five conductor power cable
- 0.6/1kV
- #2 AWG
- bronze armored & sheathed

37-104 - 566

BS

AmerCable
Gexol-331HF Prefix

Specific Cable Number
(from table)

Armor Requirement
BS – armored &
sheathed
Blank – no armor