

37-103 Gexol®-HF Flame Retardant Four Conductor Power Cable Low Smoke Halogen-Free

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

Insulation

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

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.

Sheath (Optional)

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

Smoke, with its toxic and corrosive effects, is becoming more clearly recognized as the real culprit in fire fatalities. And there is increasing concern about smoke evolution in confined spaces or areas of limited egress. Low smoke, Halogen-Free, Gexol-HF should be used in the living quarters area to insure safe egress of personnel during a fire. Gexol-HF does not produce corrosive gases during a fire that might damage expensive electronic equipment, making it ideal for use in control rooms that house this equipment.

Features

- 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

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Flexible Power Cable – Four Conductor

Size AWG/ kcmil	Unarmored		Armored (E)		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			
	Part No.	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	-529	99	0.473	154	0.612	227	4.610	6.121	0.042	8.514	-	17	16	16
14	2.1	-509	128	0.509	213	0.648	275	2.907	3.859	0.039	5.302	-	27	25	22
12	3.3	-517	168	0.555	256	0.694	323	1.826	2.424	0.037	3.393	-	33	31	27
10	5.2	-408	243	0.603	313	0.742	390	1.153	1.530	0.035	2.154	-	44	41	36
8	7.6	-409	355	0.698	466	0.748	591	0.708	0.940	0.037	1.339	-	56	52	48
6	12.5	-410	533	0.844	669	1.025	808	0.445	0.590	0.035	0.853	8	75	70	64
4	21	-412	879	1.085	1062	1.266	1236	0.300	0.399	0.032	0.585	8	99	92	85
2	34	-414	1120	1.244	1345	1.425	1677	0.184	0.244	0.030	0.369	6	131	122	113
1	43	-415	1332	1.382	1909	1.563	2144	0.147	0.195	0.031	0.302	6	153	143	131
1/0	54	-416	1465	1.515	2180	1.758	2434	0.117	0.156	0.030	0.248	6	176	164	152
2/0	70	-417	2535	1.623	2865	1.867	3050	0.093	0.125	0.030	0.203	6	201	188	175
3/0	86	-418	3206	1.804	3578	2.048	4003	0.074	0.100	0.029	0.168	4	234	218	202
4/0	109	-419	3765	2.014	4214	2.257	4670	0.058	0.080	0.029	0.140	4	270	252	235
262	132	-420	4625	2.255	4795	2.498	5610	0.048	0.067	0.029	0.122	3	315	294	267
313	159	-421	5367	2.424	5868	2.667	6395	0.040	0.056	0.028	0.107	3	344	321	299
373	189	-422	6462	2.545	6853	2.846	7576	0.034	0.047	0.028	0.095	3	387	361	334
444	227	-423	7560	2.703	7987	3.010	8760	0.028	0.041	0.028	0.086	2	440	411	372
535	273	-424	9284	3.039	9762	3.346	10570	0.024	0.035	0.028	0.077	2	463	432	418
646	326	-426	10571	3.327	10946	3.682	11840	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-HF Cables

Example:

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

37-103 - 410

BS

G

AmerCable
Gexol-HF Prefix

Specific Cable Number
(from table)

Armor Requirement
BS – armored &
sheathed
Blank – no armor

Ground Conductor
G – with ground
Blank – no ground