

37-103 Gexol®-HF Flame Retardant 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

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

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.

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. 37-103	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	0.392	66	0.442	128	0.581	182	4.610	6.121	0.039	8.511	-	17	16
14	2.1	0.424	102	0.474	176	0.613	236	2.907	3.859	0.036	5.379	-	27	25
12	3.3	0.465	133	0.515	212	0.654	276	1.826	2.424	0.034	3.390	-	33	31
10	5.2	0.508	189	0.558	281	0.697	352	1.153	1.530	0.032	2.151	-	44	41
8	7.6	0.637	274	0.687	385	0.826	477	0.708	0.940	0.034	1.336	-	56	52
6	12.5	0.723	390	0.773	519	0.954	650	0.445	0.590	0.032	0.850	8	75	70
4	21	0.942	678	0.992	843	1.173	1004	0.300	0.399	0.029	0.582	8	99	92
2	34	1.084	987	1.134	967	1.315	1374	0.184	0.244	0.028	0.366	6	131	122
1	43	1.206	1234	1.256	1458	1.439	1675	0.147	0.195	0.028	0.299	6	153	143
1/0	54	1.326	1448	1.376	1781	1.558	2015	0.117	0.156	0.028	0.245	6	176	164
2/0	70	1.422	1945	1.472	2082	1.653	2424	0.093	0.125	0.027	0.200	6	201	188
3/0	86	1.528	2379	1.578	2720	1.822	3106	0.074	0.100	0.027	0.166	4	234	218
4/0	109	1.765	2864	1.815	3233	2.058	3652	0.058	0.080	0.026	0.138	4	270	252
262	132	1.980	3452	2.030	3880	2.274	4434	0.048	0.067	0.026	0.119	3	315	294
313	159	2.131	4023	2.181	4434	2.426	4919	0.040	0.056	0.026	0.105	3	344	321
373	189	2.231	4772	2.281	5219	2.525	5718	0.034	0.047	0.025	0.092	3	387	361
444	227	2.394	5670	2.444	6176	2.688	6864	0.028	0.041	0.025	0.083	2	440	411
535	273	2.637	6784	2.687	7492	2.994	8250	0.024	0.035	0.026	0.075	2	498	465
646	326	2.958	7961	3.008	8414	3.309	9258	0.020	0.030	0.026	0.069	1	553	516
777	394	3.168	9573	3.218	10065	3.519	10945	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
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Ordering Gexol-HF Cables

Example:

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

37-103 - 320

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