

37-103 Gexol®-HF Flame Retardant Two 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

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

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 – Two Conductor

Size AWG/ kcmil	mm2	Part No. 37-103	Unarmored		Armored (B)		Armored and Sheath (BS)		DC Resistance at 25°C (Ohms/1000 ft.)	AC Resistance at 110°C, 60 Hz (Ohms/1000 ft.)	Inductive Reactance (Ohms/1000 ft.)	Voltage Drop at 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
16	1.3	-501	0.373	75	0.423	141	0.562	202	4.610	6.121	0.039	8.511	20	19	20
14	2.1	-507	0.403	95	0.453	165	0.592	230	2.907	3.859	0.036	5.379	33	31	27
12	3.3	-515	0.441	117	0.491	194	0.630	263	1.826	2.424	0.034	3.390	43	40	32
10	5.2	-553	0.481	148	0.531	233	0.670	307	1.153	1.530	0.032	2.151	53	49	43
8	7.6	-209	0.600	221	0.650	327	0.789	416	0.708	0.940	0.034	1.336	69	64	58
6	12.5	-210	0.680	308	0.730	424	0.911	559	0.445	0.590	0.032	0.850	91	85	77
4	21	-594	0.887	516	0.937	664	1.118	835	0.300	0.399	0.029	0.582	118	110	103
1/0	54	-216	1.243	1128	1.293	1334	1.474	1562	0.117	0.156	0.028	0.245	213	199	184
4/0	109	-219	1.593	2003	1.643	2271	1.886	2680	0.058	0.080	0.026	0.138	329	307	285

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

Ordering Gexol-HF Cables

Example:

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

AmerCable
Gexol-HF Prefix

37-103 - 594

Specific Cable Number
(from table)

BS

Armor Requirement
BS – armored &
sheathed
Blank – no armor