

# Gexol® -HF Flame Retardant Multi-Conductor Control 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.

## Sheath (Optional) Jacket

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



## 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:

ICEA K-1, Method 1.  
For less than minimum order quantities, Method 3 may be used.

## 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 Control Cable – Multi-Conductor

Size AWG	mm <sup>2</sup>	Number of Conductors	Part No. 37-103	Unarmored		Armored (B)		Armored and Sheath (BS)		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	4	-529	0.423	99	0.473	154	0.612
16	1.3	5	-559	0.456	110	0.506	189	0.647	264	14	13	13
16	1.3	7	-505	0.494	155	0.544	255	0.683	330	12	11	11
16	1.3	8	-503	0.531	164	0.581	265	0.720	340	12	11	11
16	1.3	10	-504	0.631	206	0.681	366	0.820	445	9	8	11
16	1.3	16	-546	0.719	299	0.769	465	0.950	602	9	8	11
16	1.3	20	-687	0.794	360	0.844	560	1.025	724	9	8	11
16	1.3	24	-525	0.923	462	0.973	718	1.154	809	8	7	11
16	1.3	37	-526	1.048	658	1.098	819	1.279	989	6	6	8
16	1.3	44	-577	1.173	807	1.223	980	1.404	1175	6	6	8
16	1.3	60	-527	1.298	1053	1.348	1256	1.529	1496	6	6	8
16	1.3	91	-581	1.548	1595	1.598	1896	1.841	2181	6	6	8
14	2.1	4	-509	0.459	128	0.509	213	0.648	275	27	25	22
14	2.1	5	-510	0.498	149	0.548	234	0.687	301	21	20	18
14	2.1	6	-511	0.539	182	0.589	264	0.728	335	21	20	18
14	2.1	7	-521	0.539	205	0.589	297	0.728	377	19	18	15
14	2.1	10	-512	0.691	280	0.741	406	0.922	515	14	13	15
14	2.1	12	-585	0.713	307	0.763	428	0.944	558	14	13	15
14	2.1	14	-523	0.749	415	0.799	540	0.980	665	14	13	15
14	2.1	20	-513	0.916	560	0.966	812	1.147	876	14	13	15
14	2.1	24	-571	1.013	615	1.063	892	1.244	1132	12	11	15
14	2.1	30	-573	1.071	780	1.121	965	1.302	1180	12	11	13
14	2.1	37	-514	1.153	876	1.203	1135	1.384	1405	11	10	13
14	2.1	44	-574	1.293	1087	1.343	1260	1.524	1477	10	9	11
14	2.1	91	-582	1.775	2200	1.825	2465	2.068	2855	10	9	11
12	3.3	4	-517	0.505	168	0.555	256	0.694	323	33	31	27
12	3.3	5	-560	0.550	196	0.600	266	0.752	334	27	25	22
12	3.3	6	-547	0.611	280	0.661	405	0.800	500	27	25	22
12	3.3	10	-518	0.771	369	0.821	500	1.002	629	17	16	19
12	3.3	20	-519	1.022	701	1.072	890	1.253	1055	17	16	19
12	3.3	24	-572	1.133	861	1.183	1167	1.364	1468	15	14	19
12	3.3	37	-520	1.293	1262	1.343	1467	1.524	1677	13	12	16

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

### Ordering Gexol-HF Cables

Example:

- Multi-Conductor control cable
- 0.6/1kV
- #12 AWG
- bronze armored & sheathed

