

# Gexol® - 331HF Fire Resistant 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

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:

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

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.

## 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. 37-104	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	0.429	119	0.529	185	0.668
16	1.3	5	-559	0.518	132	0.568	227	0.709	317	14	13	13
16	1.3	7	-505	0.562	186	0.612	306	0.751	396	12	11	11
16	1.3	8	-503	0.605	197	0.655	318	0.794	408	12	11	11
16	1.3	10	-504	0.719	247	0.769	439	0.950	534	9	8	11
16	1.3	16	-546	0.821	359	0.871	558	1.052	722	9	8	11
16	1.3	20	-687	0.908	432	0.958	672	1.139	869	9	8	11
16	1.3	24	-525	1.051	554	1.101	862	1.282	971	8	7	11
16	1.3	37	-526	1.196	790	1.246	983	1.427	1187	6	6	8
16	1.3	44	-577	1.341	968	1.391	1176	1.572	1410	6	6	8
16	1.3	60	-527	1.486	1264	1.536	1507	1.780	1795	6	6	8
16	1.3	91	-581	1.776	1914	1.826	2275	2.069	2617	6	6	8
14	2.1	4	-509	0.515	154	0.565	256	0.704	330	27	25	22
14	2.1	5	-510	0.560	179	0.610	281	0.749	361	21	20	18
14	2.1	6	-511	0.628	218	0.678	317	0.817	402	21	20	18
14	2.1	7	-521	0.628	251	0.678	349	0.817	453	19	18	15
14	2.1	10	-512	0.779	336	0.829	487	1.010	618	14	13	15
14	2.1	12	-585	0.804	368	0.854	514	1.035	670	14	13	15
14	2.1	14	-523	0.870	572	0.920	709	1.102	893	14	13	15
14	2.1	20	-513	1.030	672	1.080	974	1.261	1051	14	13	15
14	2.1	24	-571	1.141	738	1.191	1070	1.372	1358	12	11	15
14	2.1	30	-573	1.207	936	1.257	1158	1.438	1416	12	11	13
14	2.1	37	-514	1.301	1051	1.351	1362	1.532	1686	11	10	13
14	2.1	44	-574	1.461	1304	1.511	1512	1.754	1772	10	9	11
14	2.1	91	-582	2.003	2640	2.053	2958	2.296	3426	10	9	11
12	3.3	4	-517	0.571	192	0.621	292	0.761	368	33	31	27
12	3.3	5	-560	0.612	235	0.662	319	0.814	401	27	25	22
12	3.3	6	-547	0.679	336	0.729	486	0.910	600	27	25	22
12	3.3	10	-518	0.859	443	0.909	600	1.090	755	17	16	19
12	3.3	20	-519	1.136	841	1.186	1068	1.367	1266	17	16	19
12	3.3	24	-572	1.261	1033	1.311	1400	1.492	1762	15	14	19
12	3.3	37	-520	1.441	1514	1.491	1760	1.672	2012	13	12	16

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

### Ordering Gexol-331HF Cables

Example:

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

