

# Harsh Environment Cable Solutions

## High Performance GexSIS-125 Switchboard Wire

### Do you build Control Systems, Panels, or other apparatus for the Offshore Oil Industry ?

GexSIS-125 is a flexible, certified marine-grade panel wiring cable specifically designed for harsh oil and gas environments.

Constructed with AmerCable's premium Gexol® thermoset insulation, GexSIS-125 is UL listed and classified to IEEE-45.

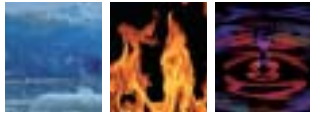
GexSIS-125 is stocked by our Houston distributor, Offshore Marine Cable Specialists, in 500', 2500' and master reels.

### Ratings and Approvals:

- 125°C Temperature Rating
- UL Listed 110°C Marine Shipboard Cable meeting UL 1309 Type X110P
- UL Classified IEEE-45 Type P (both the new 1998 standard and 1993 draft)
- 600/1000V UL/IEC
- UL Type SIS 90C
- Dark Gray Color
- VW-1 Rated

### Advantages of GexSIS-125 cable over standard National Electrical Code Type SIS wire:

- **GexSIS-125** is rated 110°C in dry locations and 90° in wet locations. Standard Type SIS is rated 90°C in dry locations only.
- **GexSIS-125** passes the long term wet electricals required for marine shipboard cable. Standard SIS wire is not required to meet any long term wet electrical tests.
- **GexSIS-125** easily passes the VW-1 flame test. A VW-1 flame rating is optional for standard Type SIS wire (in fact, the majority of Type SIS sold in the U.S. is not VW-1 rated).
- **GexSIS-125** is nonchlorinated. Type SIS that is VW-1 rated is typically heavily chlorinated and when burned emits toxic and highly corrosive off gases.
- **GexSIS-125** uses highly flexible copper conductors. Standard Type SIS uses coarse building wire conductors.
- **GexSIS-125** is insulated with Gexol®, a flexible crosslinked polyolefin material. Standard Type SIS is insulated with rigid commercial grade XLPE. Gexol has been used successfully in the harsh offshore drilling rig environment for 15+ years.
- **GexSIS-125** is available in conductor sizes 18 AWG to 1111 Kcmil, (although only sizes 14 – 4/0 are UL listed SIS). Standard SIS is only available in sizes 14 – 4/0.
- GexSIS-125 has broader applications with the additional UL Marine Shipboard Cable Listing. Type SIS is strictly limited to switchboard wiring.
- **GexSIS-125** is darker shade of gray than standard 90°C SIS to allow easy verification of correct use. If your application calls for the superior performance that GexSIS-125 delivers a quick scan of the area will easily detect misapplication of standard commodity grade SIS in your finished product.



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## Applications

For use in electrical panels, control panels, and in various other electrical apparatus as switchboard and hook-up wiring. Specifically designed for the harsh offshore marine environment. May be used for power, control and or electronics wiring. Temperature ratings as follows: Manufacturer's temperature rating 125C. UL Marine shipboard cable applications: 110C. For UL SIS applications: 90°C dry only.

## Complete Product Line Dimensions

Size AWG Kcmil	Part No. 37-102-	Stranding	Insulation Thickness (mils)	Nominal Diameter (inch)	Approx. Weight (lbs/1000ft)	Ampacity	
						90°C* Cond.	110°C** Cond.
18	151	19/30	30	0.115	11	16	30
16	153	19/.0117	30	0.125	14	21	35
14	154	19/.0147	30	0.140	20	30	41
12	156	19/.0185	30	0.160	28	35	64
10	158	37/.0167	30	0.180	41	48	85
8	159	37/24	45	0.235	63	70	112
6	160	61/24	45	0.275	98	91	148
4	162	133/.0177	45	0.352	162	122	196
2	164	133/.0223	45	0.425	247	165	259
1	165	209/24	55	0.480	320	191	298
1/0	166	266/24	55	0.525	400	226	344
2/0	167	342/24	55	0.580	507	261	396
3/0	168	418/24	55	0.630	613	305	457
4/0	169	532/24	55	0.710	770	352	528
262	170	646/24	65	0.810	944	396	599
313	171	777/24	65	0.880	1117	439	604
373	172	925/24	65	0.930	1318	496	674
444	173	1110/24	65	1.000	1570	535	750
535	174	1332/24	80	1.170	1904	609	839
646	176	1591/24	80	1.230	2256	679	937
777	177	1924/24	80	1.313	2711	770	1048
1111	179	2745/24	110	1.605	3933	918	1303

\*Based on Table 310-17 of the NEC for single conductor in free air adjusted to a 45°C ambient.

\*\*Based on IEEE Std. 835-1994 for single conductor in free air with a 45°C ambient.

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