

# GexSIS-125

## HIGH-PERFORMANCE SWITCHBOARD WIRE

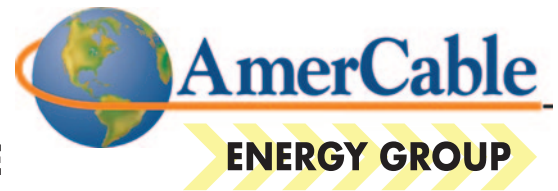


AmerCable

# GEXSIS-125

## HIGH PERFORMANCE SWITCHBOARD WIRE

Extremely Flexible • GEXOL® Insulated • Rated 110°C



### APPLICATION

A flexible, highly durable wiring cable designed for electrical panels, control panels and other electrical apparatus such as switchboard and hook-up wiring. May be used for power, control or electronics wiring.

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

Available in a variety of colors or standard dark grey jacket.

### RATINGS AND APPROVALS:

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



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

- GexSIS-125 is UL 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 gases.
- GexSIS-125 uses highly flexible tinned-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 20+ 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 available in a variety of colors for easy circuit verification of correct use.

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## PRODUCT LINE DIMENSIONS



| Size<br>AWG<br>Kcmil | Part No.<br>37-102 | Stranding | Insulation<br>Thickness<br>(mils) | Nominal<br>Diameter<br>(inch) | Approx.<br>Weight<br>(lbs/1000ft) | Ampacity      |                 |
|----------------------|--------------------|-----------|-----------------------------------|-------------------------------|-----------------------------------|---------------|-----------------|
|                      |                    |           |                                   |                               |                                   | 90°C<br>Cond. | 110° C<br>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            |

\*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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2747 West Grand Parkway N  
Suite A • Katy, TX 77449  
800-506-9473 • 713-896-5800  
e-mail: [amercable.energy@mattr.com](mailto:amercable.energy@mattr.com)  
[www.AmerCable.com](http://www.AmerCable.com)