



**GAI-TRONICS®**  
A Hubbell Company

# Cable Selection Guide



- Page/Party® Systems
- ADVANCE / SmartSeries™ Systems
- Centra Page/Party® Systems
- Speaker Cable
- RigCom & EZ Page System
- Loudspeaking Telephone, Mine Phone and Rig Phone Systems

GAI-Tronics cable optimizes the performance of GAI-Tronics' communication systems.

Color-coding for ease of installation: correct conductors can be quickly identified.

Cable configuration minimizes crosstalk: the ideal number of twists per foot (overlay) eliminates interference (crosstalk).



Sold by:



**TWAcomm.com**  
<http://www.TWAcomm.com>  
Toll Free: (877) 389-0000

## 60029 System Cable

**Applications:** Page/Party® and ADVANCE / SmartSeries™ systems with up to five party lines; complete with power and communication conductors.

**Basic Cable:** Sixteen-conductor, one twisted pair 14 AWG for power, one 14 AWG conductor for ground, one twisted pair 18 AWG for the page line, five twisted pairs 18 AWG for the party lines and one 18 AWG control conductor. Minimum bending radius for basic cable is 3.3 in. (83.8 mm).

**Construction:** PVC/nylon insulation and PVC jacket, rated 600 V, 90° C type TC.

**Approvals:** UL-listed (Subject 1277) for indoor/outdoor installations in cable tray, trough, channel, duct, wireways, direct burial and aerial (where supported by messenger); Class I, Division 2 applications; meets IEEE-45, CSA C22.2, No. 239 Control and Instrumentation Cable, and NEC Article 340.

\* Designed and constructed for Marine Shipboard installation in offshore marine environments including Class I, Division 1 and Zone 1 applications. UL-listed, meets ABS and fire resistant rated per IEC 60331, flame rated per IEC 332-2 Cat. A and IEC 331. Low Smoke Zero Halogen Jacket.

\*\* UL-listed Crush-Impact Rating UL 2225 (1500 ft-lbs crush; 25 ft-lbs impact) and flame rated per IEC 332-2 Cat. A and IEC 331 (1000°C for 3 hours) and IEEE 1202/FT-4 (Vertical Tray) and UL Marine shipboard cable and Type TC w/open wiring approved.

Part Number	Description	Max OD - in (mm)	Shipping Wt./1000 Ft.
60029-101	Basic cable with PVC jacket	.675 in (17.5 mm)	290 lbs. (131.5 kg)
60029-103	Basic cable w/ bronze braid and PVC jacket	.860 in (21.84 mm)	540 lbs. (244.9 kg)
60029-105	Basic cable w/ aluminum braid and PVC jacket	.860 in (21.84 mm)	540 lbs. (244.9 kg)
60029-107	Basic cable w/ corrugated aluminum sheath (CLX) and PVC jacket	.999 in (25.37 mm)	449 lbs. (203.7 kg)
60029-108*	Basic cable w/ bronze braid and LSZH Jacket	1.265 (32.13 mm)	968 (439 kg)
60029-109*	Basic cable w/ bronze braid 12 AWG Power and LSZH Jacket	1.265 (32.13 mm)	968 (439 kg)
60029-110**	Basic cable w/ Crush & Impact Resistant Jacket and 12 AWG Power	.935 (23.749 mm)	437 (198 kg)

## 60038 System Cable

**Applications:** Page/Party® and ADVANCE / SmartSeries™ single party line systems; complete with power and communication conductors.

**Basic Cable:** Eight-conductor, one twisted pair 14 AWG for power, one 14 AWG conductor for ground, one twisted pair 18 AWG for page line, one twisted pair 18 AWG for party line, and one 18 AWG for control conductor. Minimum bending radius for basic cable is 2.7 in. (68.6 mm).

**Construction:** PVC/nylon insulation and PVC jacket, rated 600 V, 90°C type TC.

**Approvals:** UL-listed (Subject 1277) for indoor/outdoor installations in cable tray, trough, channel, duct, wireways, direct burial and aerial (where supported by messenger); Class I, Division 2 applications; meets IEEE-45 CSA C22.2, No. 239 Control and Instrumentation Cable, and NEC Article 340.

\* Designed and constructed for Marine Shipboard installation in offshore marine environments including Class I, Division 1 and Zone 1 applications. UL-listed, meets ABS and fire resistant rated per IEC 60331, flame rated per IEC 332-2 Cat. A and IEC 331. Low Smoke Zero Halogen Jacket.

Part Number	Description	Max OD - in (mm)	Shipping Wt./1000 Ft.
60038-101	Basic cable with PVC jacket	.510 in (12.95 mm)	206 lbs. (93.44 kg)
60038-103	Basic cable w/ bronze braid and PVC jacket	.785 in (19.94 mm)	400 lbs. (181.4 kg)
60038-107	Basic cable w/ corrugated aluminum sheath (CLX) and PVC jacket	.818 in (20.78 mm)	313 lbs. (141.9 kg)
60038-108*	Basic cable w/ bronze braid and LSZH Jacket	1.000 (25.40 mm)	867 (393 kg)

## 60051 System Cable

**Applications:** Centra Page/Party® Systems with two party lines.

**Basic Cable:** Six-conductor, three individually shielded twisted pairs 18 AWG.

**Construction:** PVC/nylon insulation and PVC jacket, rated 600 V, 105° C type TC.

**Approvals:** UL-listed (Style 2516).

Part Number	Description	Max OD - in (mm)	Shipping Wt./1000 Ft.
60051-001	Basic cable	.540 in	127 lbs. (57.6 kg)
60051-003	Basic cable w/ bronze braid and PVC jacket	.715 in (18.16 mm)	281 lbs. (127.7 kg)

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## 60075 System Cable

- Applications:** RigCom, EZ Page common talk system cable.  
**Basic Cable:** Four-conductor, two twisted pairs 18 AWG  
 Minimum bending radius is 1.9 in. (48.3 mm).  
**Construction:** PVC/nylon insulation and PVC jacket, rated 300 V, 80° C type TC.  
**Approvals:** UL-listed (Style 2464).

Part Number	Description	Max OD - in (mm)	Shipping Wt./1000 Ft.
60075-001.....	Basic cable	.345 in (8.76 mm)	70 lbs. (31.8 kg)

## 60021 Loudspeaker Cable

- Applications:** Loudspeakers for Page/Party®, ADVANCE / SmartSeries™, Centra Page/Party® Systems, Nova Systems and Elemec *plus*™ Systems.  
**Basic Cable:** Two-conductor, one twisted pair 18 AWG. Minimum bending radius for basic cable is 1.5 in. (38.1 mm).  
**Construction:** PVC/nylon insulation and PVC jacket, rated 600 V, 90°C type TC.  
**Approvals:** UL-listed (Subject 1277) for indoor/outdoor installations in cable tray, trough, channel, duct, wireways, direct burial and aerial (where supported by messenger); Class I, Division 2 applications; meets IEEE-45 CSA C22.2, No. 239 Control and Instrumentation Cable, and NEC Article 340.  
 \* Designed and constructed for Marine Shipboard installation in offshore marine environments including Class I, Division 1 and Zone 1 applications. UL-listed, meets ABS and fire resistant rated per IEC 60331, flame rated per IEC 332-2 Cat. A and IEC 331. Low Smoke Zero Halogen Jacket.

Part Number	Description	Max OD - in (mm)	Shipping Wt./1000 Ft.
60021-301.....	Basic cable	.285 in (7.24 mm)	44 lbs. (19.9 kg)
60021-303.....	Basic cable w/ bronze braid and PVC jacket	.450 (11.43 mm)	200 (90.9 kg)
60021-305.....	Basic cable w/ aluminum braid and PVC jacket	.450 (11.43 mm)	200 (90.9 kg)
60021-307.....	Basic cable w/ corrugated aluminum sheath (CLX) and PVC jacket	.498 (12.65 mm)	136 (61.7 kg)
60021-308*.....	Basic cable w/ bronze braid and LSZH Jacket	.620 (15.75 mm)	254 (115 kg)
60021-309*.....	Basic cable 16 AWG w/ bronze braid and LSZH Jacket	.620 (15.75 mm)	259 (118 kg)

## 60022 Loudspeaker/System Cable

- Applications:** Loudspeaking Telephone, Rig Phone, and Speakers.  
**Basic Cable:** Two-conductor, one twisted pair 14 AWG.  
**Construction:** PVC/nylon insulation and PVC jacket, rated 600 V, 90°C type TC.  
**Approvals:** Underwriter's Laboratories UL-listed (Subject 1277) for indoor/outdoor installation in cable tray, trough, channel, duct, wireways, direct burial and aerial (where supported by messenger); Class I, Division 2 applications; meets IEEE-45 CSA C22.2, No. 239 Control and Instrumentation Cable and NEC Article 340.

Part Number	Description	Max OD - in (mm)	Shipping Wt./1000 Ft.
60022-201.....	Basic cable with PVC jacket	.340 in (8.64 mm)	71 lbs. (32.2 kg)
60022-203.....	Basic cable w/ bronze braid and PVC jacket	.500 (12.7 mm)	285 (129.3 kg)
60022-205.....	Basic cable w/ aluminum braid and PVC jacket	.500 (12.7 mm)	285 (129.3 kg)

## 60028 Loudspeaker Cable

- Applications:** 13314-001 and 13314-002 Drivers.  
**Basic Cable:** Three-conductor, one twisted triplet 18 AWG  
 Minimum bending radius for basic cable is 1.5 in. (37.6 mm).  
**Construction:** PVC/nylon insulation and PVC jacket, rated 600 V, 90°C, type TC.  
**Approvals:** UL-listed (Subject 1277) for indoor/outdoor installation in cable tray, trough, channel, duct, wireways, direct burial and aerial (where supported by messenger); Class I, Division 2 applications; meets IEEE-45, CSA C22.2, No. 239 Control and Instrumentation Cable and NEC Article 340.

Part Number	Description	Max OD - in (mm)	Shipping Wt./1000 Ft.
60028-101.....	Basic cable with PVC jacket	.303 in (7.69 mm)	48 lbs. (21.8 kg)
60028-003.....	Basic cable w/ bronze braid and PVC jacket	.390 (9.9 mm)	280 (127 kg)
60028-005.....	Basic cable w/ aluminum braid and PVC jacket	.390 (9.9 mm)	280 (127 kg)

## Special Construction Specifications

### 1. Bronze Braid:

- Material: 90/10 bronze alloy
- Wire Size: 28 AWG (0.0126")
- Coverage: 85% minimum

### 2. Aluminum Braid:

- Material: 5056 aluminum alloy
- Wire Size: 28 AWG (0.0126")
- Coverage: 85% minimum

### 3. Corrugated Aluminum Sheath:

- Separator: 0.002" thick polyester tape
- Armor: Aluminum - 0.025" wall continuous impervious corrugated sheath

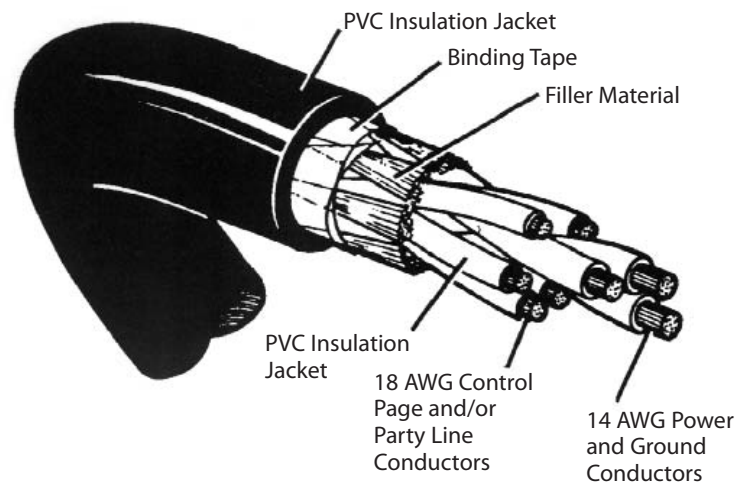
## Reference Chart

Model Number	Page/Party® SmartSeries™ Call/Talk®	Centra Page/Party®	Loudspeaking Telephone & Rigphone	Speaker	13314-001 13314-002 Drivers	RigCom & EZ Page	Purpose
60021				●			Speaker wiring in Page/Party®, ADVANCE/SmartSeries™ and Centra Page/Party® Systems
60022			●	●			Loudspeaking Telephone, Rigphone and Speaker cable
60028					●		13314-001 and 13314-002 Driver Cable
60029	●						Multi-party line cable.
60038	●						Single-party line cable
60051		●					Centra Page/Party® System Cable
60075						●	RigCom, EZ Page System Cable

## Ordering Information

Standard cable is available in 250 foot increments only, and the minimum order quantity is 250 feet, standard reels (250, 500, 750, 1,000 and 4,000). Cables can be cut in lengths greater than 1,000 ft in 250 foot increments. Please specify requested reels up to 4,000 foot continuous lengths. Specific cutting charges apply. Certain cable types are ordered upon request and require minimum order quantities and longer lead times. Please contact the factory for prices and availability.

## Cable Construction Details



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Quality Management Systems Certified - ISO9001:2000

The policy of GAI-Tronics is one of continuous improvement; therefore the company reserves the right to change specifications without notice.

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