

GAC-3 double shielded (1070x | 1080x)

Why three conductors for an audio signal? Here are some answers:

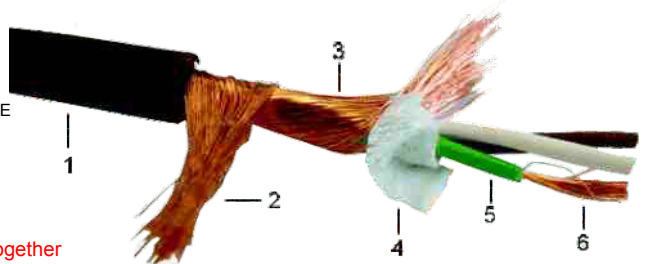
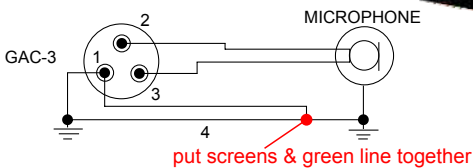
Grounding/shielding: With the third conductor put to ground, together with the two shields, we have increased RF-rejection to 115dB (20dB better than standard) at 25 kHz. This fact has also been confirmed at the AES-paper held by Mr Neil A. Muncy ("Noise Susceptibility in Analog + Digital Signal Processing Systems") in November 1994. The GAC-3 was named the best performing microphone cable available.

Round Construction: 3-conductor constructions are round constructions, and since the cable has the freedom to move in all directions, especially on the strain relief of a connector, the cable will survive more movement cycles.

Phantom Power: The 3rd conductor can be wired as a drain wire for a reliable connection of phantom power to the microphone without affecting the shield.

Each of the three conductors consists of 96 (!!)strands of 0.05mm copper wires being the finest stranding for audio cables available which gives you improved flexibility, better signal transport and longer lifetime (moving cycles). (Heavy duty version with 5.8mm Ø also available).

How to wire 3-conductor cables to XLR connectors



1	Jacket	PVC, ø 5.0 mm (10701 - 10702) PVC, ø 5.8 mm (10801 - 10802)
2	Shield No. 1	Bare copper wires (0.10 mm), 100% coverage
3	Shield No. 2	Bare copper wires (0.10 mm), 100% coverage
4	Viscose fiber coat	Counter wrapped to the twisted triple
5	Insulation (cond.)	PVC, ø 1.20 mm, white, brown and green, twisted triple
6	Conductor	Stranded bare copper wires, 96 x 0.05 mm (0.19 mm ²)

Conductor resistance	< 90 Ohm /km	Test voltage cond/cond	500 V eff.
Shielding resistance	< 20 Ohm /km	Test voltage cond/shield	2000 V eff.
Cap. @ 800 Hz, cond/cond	< 150 nF /km	Operating voltage	low voltage
Cap. @ 800 Hz, cond/shield	< 240 nF /km	Temperature range (flex)	- 5° to +50° C
Charact. imped. @ 20 kHz	150 Ohm	Temperature range (fix)	-30° to +70° C

Order No.	Type	ø mm	Color	Spool Size	Weight /Spool	Shipping Unit
10701	GAC-3	5.0	grey	100 m	4.1 kg	4 x 100 m
10702	GAC-3	5.0	black	100 m	4.1 kg	4 x 100 m
10801	GAC-3	5.8	black	100 m	4.5 kg	4 x 100 m
10802	GAC-3	5.8	brown	100 m	4.5 kg	4 x 100 m