



**Gotham Audio
Cable**

#10701 / 10702 / 10801 GAC-3 Microphone Cable

The classic 3-conductor mic cable – balanced double Reussen shielded analog audio cable. For three decades, this was the famed IC-3 Interconnect Cable supplied with Neumann Microphones in the USA.

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 a cable design renowned for superior RF-rejection for 5 decades. This fact has been confirmed in literally hundreds of situations where severe RFI problems were solved simply by a change to a properly grounded Gotham microphone cable. In an AES-paper presented by Neil A. Muncy in November 1994, GAC-3 was named the best performing microphone cable then available. Reference: "Noise Susceptibility in Analog and Digital Signal Processing Systems" presented at the 97th AES Convention, San Francisco, November 1994, Revised April 12, 1995 – Journal of the Audio Engineering Society, Vol. 43 #6, June 1995, p. 435-453.

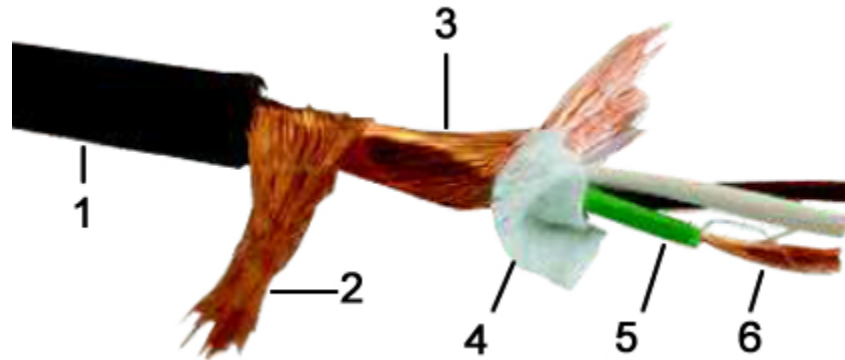
Round Construction:

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 LCOF 0.05mm copper wires. The finest available stranding for audio cables resulting in improved flexibility, better signal transport and longer lifetime (moving cycles).



Construction:

1 = Jacket	PVC, Ø 5.0 mm (10701 – 10716) PVC, Ø 5.8 mm (10801 – 10803)
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)	PE, Ø 1.2 mm, white, brown and green, twisted triple
6 = Conductor	Stranded bare copper wires 96 x 0.05 mm (0.19 mm ²)

Gotham Audio Cable is distributed in the USA and Canada by:

Gotham Audio LLC

P.O. Box 111 • 135 Spring Street, Unit C • Nazareth, PA 18064 USA

Phone: 610-746-9342 • Web: www.gothamaudioussa.com • Email: lewis@gothamaudioussa.com



**Gotham Audio
Cable**

#10701 / 10702 / 10801 GAC-3 Microphone Cable

The classic 3-conductor mic cable – balanced double Reussen shielded analog audio cable. For three decades, this was the famed IC-3 Interconnect Cable supplied with Neumann Microphones in the USA.

Technical Specifications:

Conductor resistance:		< 90 Ohm/km
Shielding resistance:		< 20 Ohm/km
Capacitance:	cond/cond:	< 150 nF /km
	cond/shield:	< 240 nF /km
Characteristic impedance:	at 10 kHz:	150 Ohm
Test voltage:	cond/cond:	500 V eff.
	cond/shield:	2000 V eff.
Operating voltage:		Low voltage
Temperature range:	flexi-installed:	-5° to +50° C
	fix-installed:	-30°to +70° C

A thicker jacket version is also available (Gotham #10801 and #10802)

GOTHAM AUDIO CABLE Standard Wiring Configuration:

Wiring for GAC-3:

Brown = Pin 2 + (Hot)

White = Pin 2 – (Cold)

Both shields plus Green = Pin 1 (Ground)

Part #	Type	O.D.	Color	Spool Size	Wt./Spool	Case Unit
10701	GAC-3	5.0 mm	grey	100 m	4.1 kg	4 x 100m
10702	GAC-3	5.0 mm	black	100 m	4.1 kg	4 x 100m
10801	GAC-3	5.8 mm	black	100 m	4.5 kg	4 x 100m
10802	GAC-3	5.8 mm	brown	100 m	4.5 kg	4 x 100m

Gotham Audio Cable is distributed in the USA and Canada by:

Gotham Audio LLC

P.O. Box 111 • 135 Spring Street, Unit C • Nazareth, PA 18064 USA

Phone: 610-746-9342 • Web: www.gothamaudioussa.com • Email: lewis@gothamaudioussa.com