

# CIR® Instrumentation Cable

## Gexol® Insulated

Individually Shielded Pairs/Triads • 0.6/1kV • Rated 90°C

### Insulation

GEXOL® cross-linked flame retardant polyolefin, meeting the requirements for Type P of IEEE 1580 and Type X110 of UL 1309/CSA 245. 600V/IEC 1000V.

### Safe to Handle

CIR® has no sharp metal armor edges that imperil worker's hands during splicing and installation of connectors



### Conductor

Soft annealed flexible stranded tinned copper per IEEE 1580 Table 11.

### Pairs/Triads

Each pair/triad is twisted with a bare tinned drain wire. Each pair/triad is shielded with polyester-backed aluminum foil tape to afford 100% coverage. Pair to pair, or triad to triad, isolation – plus overall shielding – is provided.

### Jacket

A black, flame retardant, oil, abrasion, chemical and sunlight resistant thermoplastic compound meeting UL 1309/CSA 245 and IEEE 1580.

### Application

Designed and constructed to be a flexible alternative to Type MC cable where user desires the added crush and impact protection.



### Features

- Passes the same stringent crush and impact testing required by UL 2225 for Type MC-HL
- Gas & vapor tight – impervious to water & air
- Smaller bend radius (up to 40% smaller) than Type MC
- Reduced tray fill (up to 35% less) compared to Type MC
- Considerably more flexible than Type MC
- Reduced installation time and cost compared to Type MC
- Glands for this product cost up to 50% LESS than those for Type MC

*For Cable Color Codes and Stranding Information see page 7*

Conductor Size		Pairs	Triads	Part No. 37-102	Nominal Diameter (inches)	Weight (lbs/1000 ft.)	DC Resistance 20°C (ohms/1000 ft.)	Mutual Capacitance (nF/1000 ft.)	Inductance (mH/1000 ft.)
AWG	mm2								
16	1.3	1	–	-610CIR	0.437	106	4.52	32	0.20
16	1.3	2	–	-611CIR	0.700	279	4.52	32	0.20
16	1.3	4	–	-613CIR	0.790	340	4.52	32	0.20
16	1.3	8	–	-616CIR	1.075	702	4.52	32	0.20
16	1.3	12	–	-618CIR	1.275	1062	4.52	32	0.20
16	1.3	24	–	-699CIR	1.637	1560	4.52	32	0.20
16	1.3	–	1	-668CIR	0.467	128	4.52	32	0.20
16	1.3	–	4	-698CIR	0.930	453	4.52	32	0.20
16	1.3	–	8	-677CIR	1.130	825	4.52	32	0.20
16	1.3	–	12	-734CIR	1.380	1235	4.52	32	0.20

*See page 1 for Ratings & Approvals*

### VALUES:

#### #16 Pairs / Triads

Capacitance – nF/1000 feet = 32

Inductance – mH/1000 = 0.20

Resistance – Ohms/1000 feet = 4.52 (@ 20°C)



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