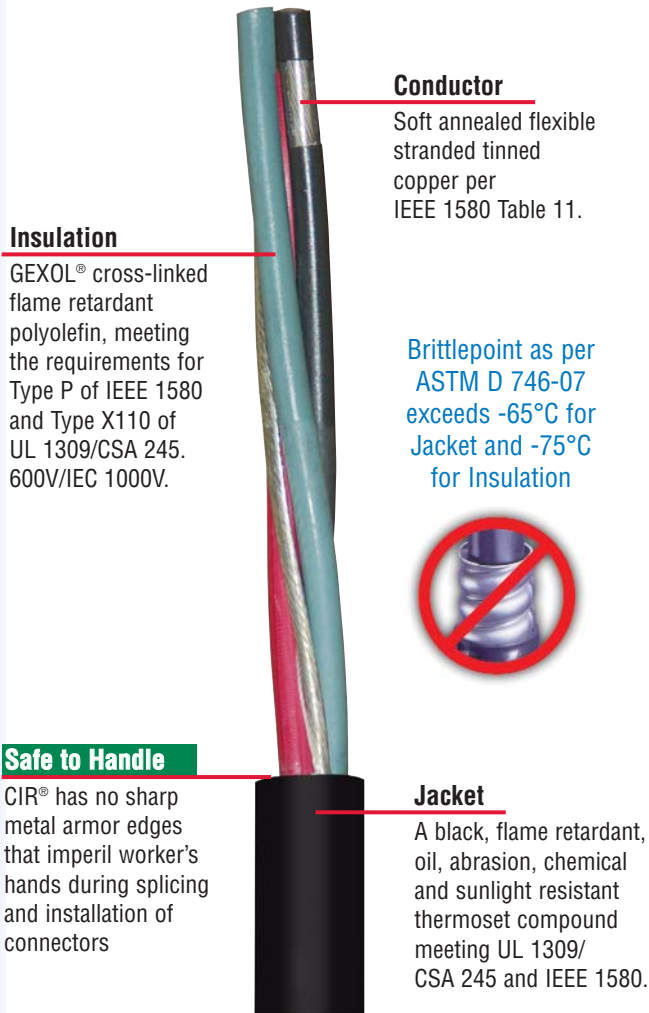


CIR® Power Cable Gexol® Insulated • Arctic Grade

Three & Four Conductor + Ground • 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.

Conductor

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

Brittlepoint as per ASTM D 746-07 exceeds -65°C for Jacket and -75°C for Insulation



Safe to Handle

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

Jacket

A black, flame retardant, oil, abrasion, chemical and sunlight resistant thermoset 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 crush and impact protection in arctic conditions.

Features

- Exceeds CSA cold bend / cold impact (-40°C / -35°C)
- Passes the same stringent crush and impact testing required by UL 2225 for Type MC-HL
- Gas & vapor tight – impervious to water and 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



CIR® Ratings & Approvals

- Brittlepoint as per ASTM D 746-07 exceeds -65°C for the Jacket and -75°C for the Insulation.
- 90°C temperature rating
- UL Listed as Marine Shipboard Cable (E111461)
- UL Listed as Type TC-ER (E123629)
- American Bureau of Shipping (ABS) (99-BT5905-X)
- Flame Retardant – IEEE 1202
- Suitable for use in Class I, Div 2 and Zone 2 environments

NOTE: Armored cables are required in Class I, Division 1 and Zone 1 environments.



Gexol® and CIR® are registered trademarks of AmerCable Incorporated.

CIR® Power Cable

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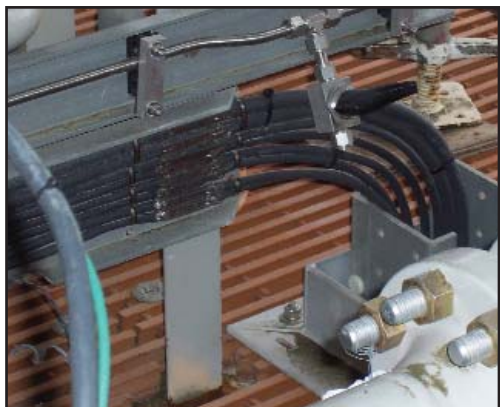
Three & Four Conductor + Ground • 0.6/1kV • Rated 90°C

CIR® Power Cable

Conductor Size		Number of Conductors	Grounding Conductor AWG/kcmil	Part No. 37-102*	Nominal Diameter (inches)	Weight (lbs/1000 ft.)	90°C NEC Ampacity	75°C NEC Ampacity	DC Resistance at 25°C Ampacity	AC Resistance at 90°C, 60Hz (ohms/1000 ft.)	Inductive Reactance (ohms/1000 ft.)	Voltage Drop (Volts/Amp/1000 ft.)
AWG/kcmil	mm ²											
14	2.1	3	14	-508CIRGAG	0.535	187	15	15	2.91	3.64	0.04	5.069
14	2.1	4	14	-509CIRGAG	0.562	206	15	15	2.91	3.64	0.04	5.072
12	3.3	3	12	-516CIRGAG	0.578	246	20	20	1.83	2.28	0.03	3.195
12	3.3	4	12	-517CIRGAG	0.682	305	20	20	1.83	2.28	0.04	3.198
10	5.2	3	10	-308CIRGAG	0.685	367	30	30	1.15	1.44	0.03	2.028
10	5.2	4	10	-408CIRGAG	0.736	397	30	28	1.15	1.44	0.03	2.031
8	7.6	3	10	-309CIRGAG	0.760	431	55	50	0.708	0.885	0.034	1.261
8	7.6	4	10	-409CIRGAG	0.821	513	44	40	0.708	0.885	0.037	1.263
6	12.5	3	8	-310CIRGAG	0.844	585	75	65	0.445	0.556	0.032	0.803
6	12.5	4	8	-410CIRGAG	0.915	705	60	52	0.445	0.556	0.035	0.806
4	21	3	6	-312CIRGAG	0.944	774	95	85	0.300	0.376	0.029	0.550
4	21	4	6	-412CIRGAG	1.036	956	76	68	0.300	0.376	0.032	0.553
2	34	3	6	-314CIRGAG	1.094	1105	130	115	0.184	0.230	0.028	0.347
2	34	4	6	-414CIRGAG	1.203	1381	104	92	0.184	0.230	0.030	0.350
1/0	54	3	6	-316CIRGAG	1.331	1669	170	150	0.117	0.147	0.028	0.232
1/0	54	4	6	-416CIRGAG	1.468	2107	136	120	0.117	0.147	0.030	0.235
2/0	70	3	4	-317CIRGAG	1.450	2062	195	175	0.0929	0.1174	0.0270	0.190
2/0	70	4	4	-417CIRGAG	1.602	2585	156	140	0.0929	0.1174	0.0296	0.193
4/0	109	3	4	-319CIRGAG	1.769	3151	260	230	0.0585	0.0753	0.0261	0.131
4/0	109	4	4	-419CIRGAG	1.953	3972	208	184	0.0585	0.0753	0.0287	0.134
250	127	3	3	-330CIRGAG	1.906	3493	290	255	0.0488	0.0635	0.0263	0.115
250	127	4	3	-430CIRGAG	2.106	4510	232	204	0.0488	0.0635	0.0290	0.118
350	177	3	3	-331CIRGAG	2.171	4594	350	310	0.0344	0.0456	0.0256	0.090
350	177	4	3	-431CIRGAG	2.402	5900	280	248	0.0344	0.0456	0.0283	0.093
500	253	3	2	-333CIRGAG	2.521	6207	430	380	0.0251	0.0348	0.0258	0.075
500	253	4	2	-433CIRGAG	2.855	8178	344	304	0.0251	0.0348	0.0284	0.078
750	380	3	1	-334CIRGAG	3.035	9165	535	475	0.0166	0.0253	0.0252	0.061
750	380	4	1	-434CIRGAG	3.365	11883	428	380	0.0166	0.0253	0.0278	0.063

Ampacities are based on Table 310.16 of the National Electrical Code (NEC) for conductors rated 90°C, in a multi-conductor cable, at an ambient temperature of 30°C. The 75°C column is provided for additional information. The ampacities shown apply to open runs of cable, installation in any approved raceway. Derating for more than three current carrying conductors within the cable is in accordance with NEC Table 310.15 (B) (2) (a). The ampacities shown also apply to cables installed in cable tray in accordance with NEC Section 392.11.

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Hawke Gland Types

Hawke Gland Types	Type CIR
Industrial & Safe Area (IP68)	121
Increased Safety "EExe"	501/421
Explosion Proof	710 Class I, Div. 2 Class I, Zone 1 & 2
Flameproof "EExd"	501/421 Zone 1 & 2

Bend Radius

	Type CIR
IEEE 45	6X Diameter
NEC	< 1" (25mm)
	4X Diameter
	> 1" (25mm) < 2" (50mm)
	5X Diameter
	> 2" (50mm) 6X Diameter