

Conductors

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

Jacket

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

Armor (Optional)

Basket weave wire armor per IEEE 1580 and UL 1309/CSA 245. Bronze standard. Aluminum or tinned copper available by request.



Insulation

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

Color code:
Black-White-Red-Green-Orange

Sheath (Optional)

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

Ratings & Approvals

- 110°C Temperature Rating
- American Bureau of Shipping (ABS) 99-BT5905-X
- Transport Canada 8700-20-2
- Det Norske Veritas (DNV) E-4999, E-5000, E-5001, E-5002
- Lloyd's Register of Shipping (LRS) 91/60333 (E4)
- NVE 95/1696, FAL
- UL Listed as Marine Shipboard Cable (E111461)
- United States Coast Guard November 2, 1987 / 9304
- CSA Listed as Type RW90 (LL80350)

Other certifications pending

Application

Designed and constructed for the demanding environments of offshore drilling and petroleum facilities located throughout the world.

Features

- High strand count conductors make this product much more flexible, easier to install and more resistant to vibration than Type MC, IEC spec or commercial cables.
- Gexol's lower dielectric constant and higher insulation resistance reduces electrical losses.
- Gexol's excellent resistance to moisture produces stable electrical properties throughout the life of the cable.
- In a fire condition, Gexol's nonchlorinated flame retardant system produces less toxic and less corrosive gases.
- Dual certified IEEE 1580 Type P and UL 1309/CSA 245 Type X110.
- Highest ampacity ratings: ABS 100°C, DNV 95°C, LRS 95°C, Transport Canada 95°C.
- Severe cold durability: exceeds CSA cold bend/cold impact (-40°C/-35°C).
- Flame retardant: IEC 332-3 Category A and IEEE 1202.
- Suitable for use in Class 1 Division 1, and Zone 1 environments (armored and sheathed).
- Optional braid armor of bronze, aluminum or tinned copper.

Hawke Gland Types	Unarmored	Armored & Sheathed
Industrial & Safe Area (IP68)	121	153-X
Increased Safety "EExe"	501/421	501/453/U
Explosion Proof	710 Class 1 Div. 2 Class 1, Zone 2	753 Class 1 Div. 1 Class 1, Zone 1 & 2
Flameproof "EExd"	501/421 Zone 1 & 2	501/453/U (2 liter or < enclosures) ICG 653/U (2 liter or > enclosures) Zone 1 & 2



37-102

Flexible Power Cable Gexol® Insulated

Five Conductor • 0.6/1kV • Rated 110°C

Flexible Power Cable – Five Conductor

Size AWG/ kcmil	mm ²	Part No. 37-102	Unarmored		Armored (B)		Armored and Sheath (BS)		DC Resistance at 25°C (Ohms/1000 ft.)	AC Resistance 110°C, 60 Hz (Ohms/1000 ft.)	Inductive Reactance (Ohms /1000 ft.)	Voltage Drop 110°C (Volts/Amp/1000 ft.)	Ampacity		
			Nominal Diameter (inches)	Weight (lbs/MFT)	Nominal Diameter (inches)	Weight (lbs/MFT)	Nominal Diameter (inches)	Weight (lbs/MFT)					110°C	100°C	95°C
18	1.0	-558	0.431	100	0.481	171	0.612	221	7.350	9.763	0.044	13.558	11	10	11
16	1.3	-559	0.456	110	0.506	189	0.639	264	4.610	6.121	0.042	8.514	14	13	13
14	2.1	-510	0.498	149	0.548	234	0.679	301	2.907	3.859	0.039	5.382	21	20	18
12	3.3	-560	0.550	196	0.600	266	0.744	334	1.826	2.424	0.037	3.393	27	25	22
10	5.2	-561	0.604	296	0.654	406	0.785	494	1.153	1.530	0.035	2.154	35	33	29
8	7.6	-562	0.765	453	0.815	569	0.988	704	0.708	0.940	0.037	1.339	45	42	38
6	12.5	-563	0.914	653	0.964	813	1.137	973	0.445	0.590	0.035	0.853	60	56	51
4	21	-565	1.137	1073	1.187	1292	1.360	1481	0.300	0.399	0.032	0.585	79	74	68
2	34	-566	1.315	1361	1.365	1637	1.538	1856	0.184	0.244	0.030	0.369	105	98	90
1	43	-567	1.470	2130	1.520	2192	1.756	2482	0.147	0.195	0.031	0.302	122	114	105
1/0	54	-568	1.618	2550	1.668	2746	1.903	3108	0.117	0.156	0.030	0.248	140	131	122
2/0	70	-569	1.802	2954	1.852	3301	2.088	3734	0.093	0.125	0.030	0.203	161	150	140
4/0	109	-746	2.167	3615	2.217	3955	2.453	4592	0.058	0.080	0.029	0.140	216	202	188

Cable diameters shown as nominal are subject to a ±5% manufacturing tolerance

Ordering Gexol Marine Cables

Example:

- 5 conductor power cable
- 0.6/1kV
- #2 AWG
- bronze armored & sheathed

AmerCable Gexol
Marine Prefix

37-102 - 566

Specific Cable Number
(from charts)

BS

Armor Requirement
BS – armored &
sheathed
Blank – no armor

GEXOL® is a registered trademark of
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8/02

Manufactured by AmerCable, Incorporated • (870) 862-4919 • (800) 643-1516 • Fax (870) 862-9613
350 Bailey Road • El Dorado, Arkansas USA • www.amercable.com