

ELECTRO-OPTICAL CABLES

FLAME RETARDANT • RATED 110°C



37-102

GEXOL® FLAME RETARDANT ELECTRO-OPTICAL CABLE

Extremely Flexible • 0.6/1kV • Rated 110°C

Fiber Optic Core

Single or multi-mode core (4, 6 & 8) available.

Conductor

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

Insulation

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

Jacket

Flame retardant polyolefin meeting IEEE 45/1580

GEXOL® is a registered trademark of AmerCable Incorporated

Armor

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

Sheath

Flame retardant polyolefin meeting IEEE 45/1580

Cable available with blue stripe to signify intrinsically safe circuit.

APPLICATION

Premier cable design combining multi-core fiber optics and copper conductors in one common cable. Constructions are available in power, control and instrumentation. Single mode and multi-mode fiber optic cores are available.

Suitable for installations in SCADA systems, CCTV systems, remote computer terminals, remote actuators, sensors, ship-to-shore, and communications.

FEATURES

- Flame retardant: IEC 332-3 Category A and IEEE 1202.
- High strand count conductors make this product more flexible and easier to install than IEC 60092-350 Series cables.
- Higher temperature rating results in higher ampacity ratings.
- Severe cold durability: exceeds CSA cold bend/cold impact (-40°C/-35°C).
- Suitable for use in Class 1 Division 1, and Zone 1 environments (armored and sheathed).

RATINGS & APPROVALS

- 110°C Temperature Rating

Precision engineered electro-optic cable assemblies from **AmerCable Systems** save you time and money!



Hawke Gland Types	Unarmored	Armored & Sheathed
Industrial & Safe Area (IP68)	121	153-X
Increased Safety "EEx"	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

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Cable Category	Cable Description	AmerCable Part No. 37-102-XXXBS-YY "XXX"	Fiber Mode Option 9/125 Single Mode "YY"	Fiber Mode Option 50/125 Multi-Mode "YY"	Fiber Mode Option 62.5/125 Multi-Mode "YY"	Diameter Under Armor	Overall Dia.	Weight (lbs/mft)
Four-Core (4C) Fiber								
Instrumentation Cables	#18-1pr	-601	S1	M1	M2	0.360	0.541	432
	#18-2pr	-602	S1	M1	M2	0.551	0.732	474
	#18-4pr	-604	S1	M1	M2	0.630	0.801	817
	#16-1pr	-610	S1	M1	M2	0.388	0.569	462
	#16-2pr	-611	S1	M1	M2	0.565	0.751	512
	#16-4pr	-613	S1	M1	M2	0.671	0.886	946
	#14-1pr	-620	S1	M1	M2	0.410	0.590	505
	#14-2pr	-621	S1	M1	M2	0.621	0.802	523
	#14-4pr	-623	S1	M1	M2	0.721	0.881	1062
	#12-1pr	-695	S1	M1	M2	0.470	0.730	654
Power & Control Cables	#12-3c	-516	S1	M1	M2	0.465	0.645	720
	#12-4c	-517	S1	M1	M2	0.505	0.686	878
	#10-3c	-308	S1	M1	M2	0.508	0.689	900
	#10-4c	-408	S1	M1	M2	0.553	0.734	1098
Eight-Core (8C) Fiber								
Instrumentation Cables	#18-1pr	-601	S1	M1	M2	0.360	0.541	486
	#18-2pr	-602	S1	M1	M2	0.551	0.732	517
	#18-4pr	-604	S1	M1	M2	0.630	0.801	844
	#16-1pr	-610	S1	M1	M2	0.388	0.569	509
	#16-2pr	-611	S1	M1	M2	0.565	0.751	555
	#16-4pr	-613	S1	M1	M2	0.671	0.886	928
	#14-1pr	-620	S1	M1	M2	0.410	0.590	611
	#14-2pr	-621	S1	M1	M2	0.621	0.802	634
	#14-4pr	-623	S1	M1	M2	0.721	0.881	1043
	#12-1pr	-695	S1	M1	M2	0.522	0.819	716
Power & Control Cables	#12-3c	-516	S1	M1	M2	0.465	0.645	786
	#12-4c	-517	S1	M1	M2	0.505	0.686	960
	#10-3c	-308	S1	M1	M2	0.508	0.689	941
	#10-4c	-408	S1	M1	M2	0.553	0.734	1211

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

#14 Pairs

Capacitance = 43 nF/1000 ft.
Inductance = 0.19 mH/1000 ft.
Resistance = 2.85 ohms/1000 ft.

#16 Pairs

Capacitance = 37 nF/1000 ft.
Inductance = 0.20 mH/1000 ft.
Resistance = 4.52 ohms/1000 ft.

#18 Pairs

Capacitance = 33 nF/1000 ft.
Inductance = 0.22 mH/1000 ft.
Resistance = 7.21 ohms/1000 ft.

Available in metric copper conductors (consult factory)

**Ordering
Example**

- #16-2 Pair
- 62.5/125
Multi-Mode Fiber

37-102	- 611BS	- 4C	- M2
AmerCable Prefix	Part Number (from table)	Fiber Count	Fiber Mode Option

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AmerCable is an ISO 9001 certified cable manufacturer that combines leading-edge manufacturing technology, innovative thinking, and high-quality service to deliver the finest upstream oil & gas cable products available.

AmerCable serves the world from our Oil & Gas Group headquarters in Houston, Texas. Our professional field engineers and sales force work with you to create innovative, cost effective project solutions.



Made in America

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