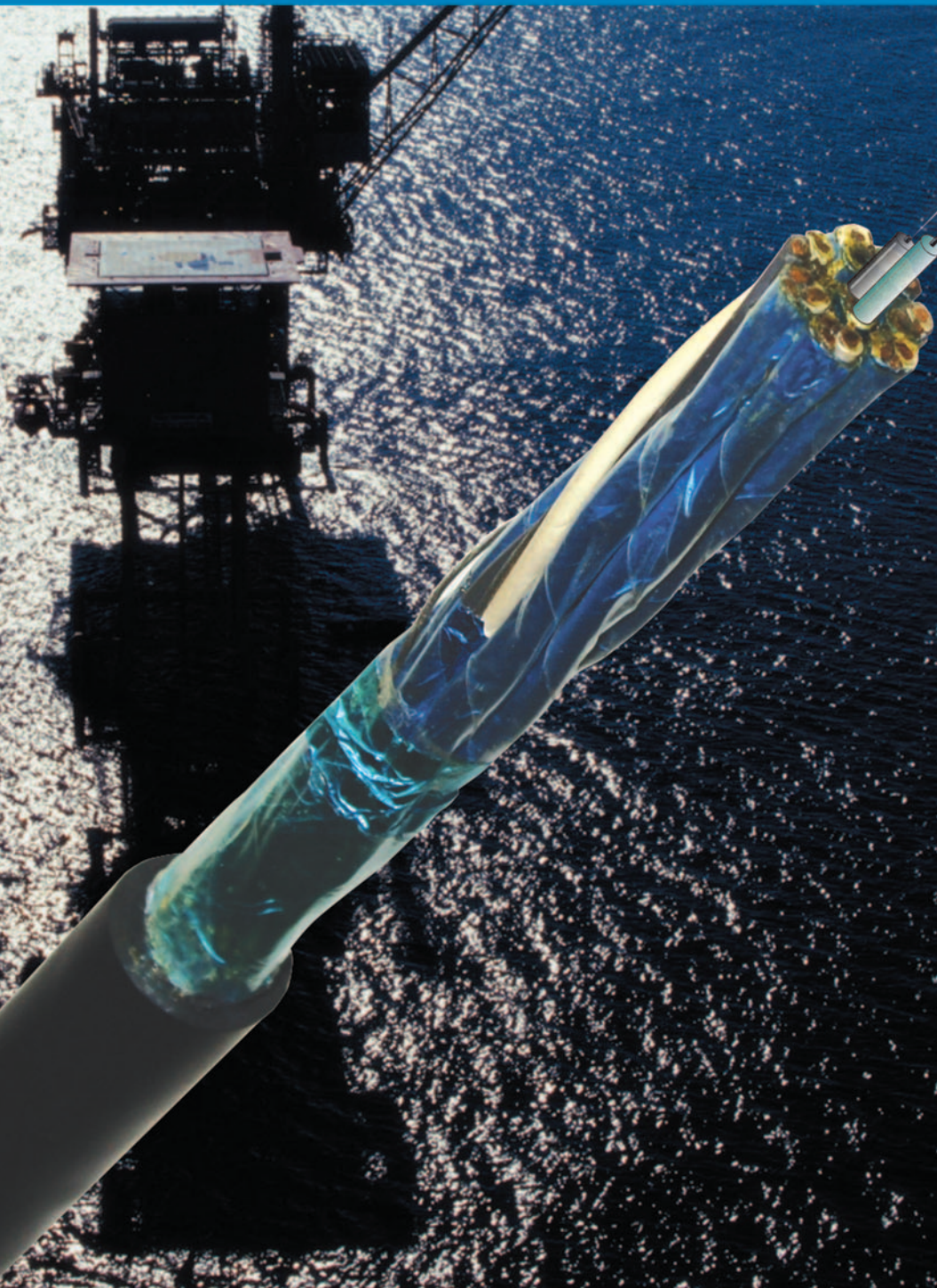


# ELECTRO-OPTICAL CABLES

FLAME RETARDANT • RATED 110°C



**ENERGY GROUP**



# 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

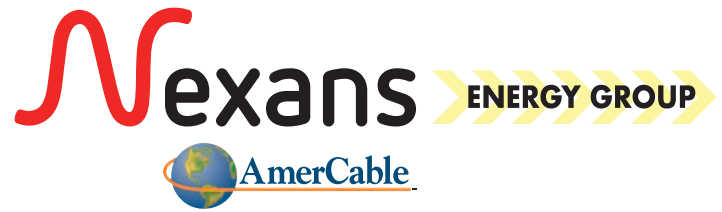
Precision engineered electro-optic cable assemblies from **AmerCable Systems** save you time and money!



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)
<b>Four-Core (4C) Fiber</b>								
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
<b>Eight-Core (8C) Fiber</b>								
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

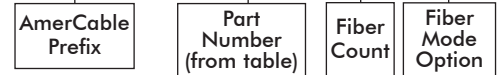
Cable diameters shown as nominal are subject to a ±5% manufacturing tolerance

Available in metric copper conductors (consult factory)

### Ordering Example

**37-102 - 611BS - 4C - M2**

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



**#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.

# ELECTRO-OPTICAL CABLES

FLEXIBLE • RATED 110°C



Nexans 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 energy cable products available.

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

## **Nexans AmerCable**

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