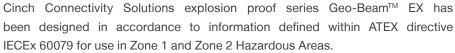




Geo-Beam™ EX

Electrical and Optical Explosive Proof Connectors



The Geo-Beam™ EX product range consists of an Inline Plug and Box Mount Bulkhead and is manufactured using Stainless Steel 316, making it able to withstand the most extreme environments. The product uses a Tri-Start Trapezoidal coupling method giving a reduce turn and an additional locking mechanism giving positive mating, and an audible click to ensure full engagement.

A standard ATEX approved metric cable gland can be used and will fit all of the Geo-Beam™ EX connector types, the cable glands used will allow termination to varied cable constructions.

The Geo-Beam $^{\text{TM}}$ EX electrical range will offer the greatest flexibility of connector configurations and broadest options for the customer. The range is primarily designed using an 8 way copper connector, focusing around a standard #16 MIL-C-39029 contact and offers a variable range of fiber optic configurations, using MIL-PRF-29504, physical contact and optical termini.



Features

- Certified for equipment used in hazardous environments
- Required in offshore oil and gas applications
- · Applicable to upstream/midstream/downstream
- ATEX is European only and regulatory to all EU countries
- IECEx is a worldwide standard (and is used in the US)





• Can be used in Zone 0 Hazardous Areas when utilized with appropriate hardware

Applications

- Explosion proof and hazardous environments
- Oil, Gas and Offshore
- · Petrochemical refineries
- · Chemical Manufacturing
- Pharmaceutical Manufacturing



GEO-BEAM™ EX - Electrical / Optical Connector

Power Max AMPS per Pin		13		
Power Max Voltage		600		
Power Max AMPS		64		
Insertion Loss (Optical)	Singlemode	-1.0dB (typical -0.5dB)*		
	Multimode	-0.7dB (typical -0.5dB)*		
Return Loss (Optical)		≥50dB singlemode		
Temperature Class		Gas: T4 (-30°C to +60°C)	Dust: T135°C	
Surface Temperature		60°C		
Standard Coding		II 2 G D	Ex db op pr IIC T4 Gb	Ex tb IIIC T80°C Db
Certification		ATEX Directive 2014/34/EU & IEC 60079		
		ATEX Code: CML16ATEX1398X	IECEx Code: CML16.0151X	
IP Rating (when mated)		IP67		
Free Fall Resistance		1kg (7 Joules) at 1.2M (Steel Plate Base)		
Weight (approx)		Plug - 420g / Bulkhead - 580g (Additional weight with gland)		
Connector Shell Material / Color		Stainless Steel 316 (shotblast finish)		

^{*}performance is dependent on assembly & termination; figures relate to CCS terminated harnesses.

Electrical





Optical Pin and Socket





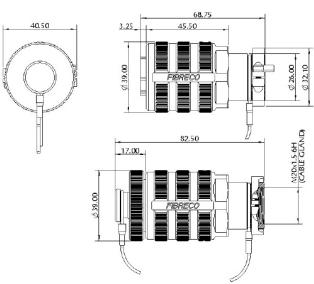
Available Insert Options

8 #16 Pin or Socket Contacts (All Copper MIL-C-39029, All Fibre MIL-PRF-29504, Mixed Copper & Fibre)

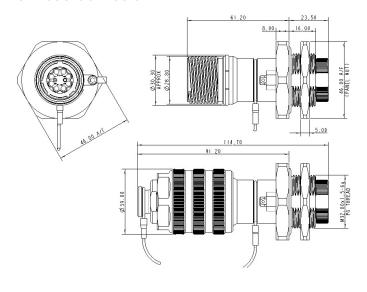
Other Available Options:

- 2, 4, 6 and 8 Expanded Beam Channels
- 2 Expanded Beam Channels with 2 #16 MIL-C-39029
- 2 Expanded Beam Channels with 2 #20 MIL-C-39029
- 4 Expanded Beam Channels with 2 #16 MIL-C-39029
- 2 Expanded Beam Channels with 2 #16 and 2 #20 MIL-C-39029

Plug Connector



Bulkhead Connector





Asia Pacific +86 21 5442 7668 ccs.asia.sales@as.cinch.com

Europe, Middle East & Africa +44 (0) 1245 342060 CinchConnectivity@eu.cinch.com North America +1 507.833.8822 ccsorders@us.cinch.com

cinch.com