

BXF & BAF EXPLOSION PROOF / INTRINSICALLY SAFE ETHERNET COUPLER

Solexy's patented (7,057,105) Explosion-Proof / Intrinsically Safe Ethernet Coupler allows for transmissions of Ethernet into hazardous areas with a standard RJ45 connector.

With the Solexy Ethernet coupler it's possible to connect any standard ethernet device located in a classified or safe area.

The BXF explosion proof and intrinsically safe barrier is certified for installation in classified areas and BAF intrinsically safe barrier is suitable for installation in safe areas and purged systems.

The BXF is designed to be used with any UL, CSA, MSHA or ATEX listed explosion proof housing without the need of a seal fitting, taking up no internal space.

The BAF is designed to be used in safe area directly with any CAT5 or CAT5e cable system. The BAF can also be remote mounted up to 100 meters away with minimal loss of signal. The BAF is also designed to be used with air purge panel systems. A BXF and/or BAF coupler is required on each end of a cable installation for full protection of both the RX and TX lines.



FEATURES

Short Circuit, Over Voltage / Current Protection

Includes the required 1500 VDC dielectric circuit as required for use in a hazardous area environment.

No Sealing Fitting Required

Fitting is pre-approved for hazardous locations and can be installed with no potting compounds and a simple wrench. Eliminates the need for costly seal fittings, and reduces the chance of error associated with field installed sealing practices.

Corrosion Resistant

300 series stainless steel protects the fitting from corrosive environments, sealing fittings are typically constructed of aluminium or galvanized steel, neither being well suited for the process industry.

Environmental Protection

All required circuitry is recessed into fitting and encapsulated against harsh environments; this is impossible with conventional sealing methods.

Interchangeability

- ✓ Ethernet cables can be connected/disconnected without powering down, and can be run in traditional cable trays.

Industrial M12 "D" coded connection

With this secure weather proof industrial connection, cable installation and removal can be accomplished without removing power.

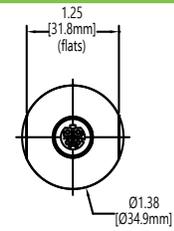
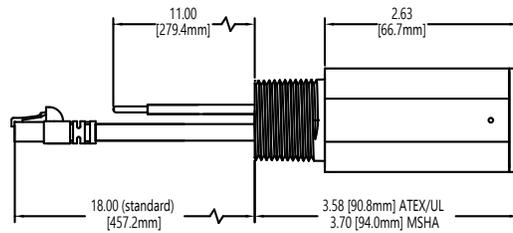


SPECIFICATIONS

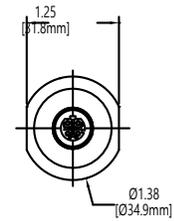
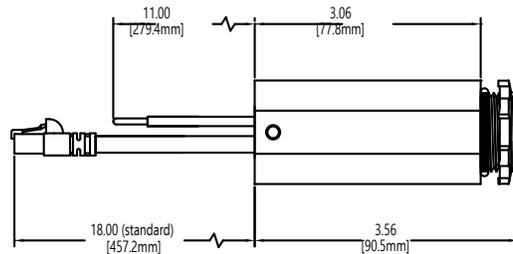
Maximum Fault Voltage	RMS 250 V	Current Protection	50 mA
Frequency Range	up to 100 MHz	Total impedance	< 100 Ohm
Protection	3.6 V	Ambient Temperature Range	-4°F +140°F
Data connector (hazardous side)	M12 Industrial "D" coded connector		
Housing Material	BXF = 300 SST (approximate weight 0.83 lbs) BAF = T6 Aluminum nickel plated (approximate weight 0.44 lbs)		

DIMENSIONAL DRAWING

● BXF



● BAF



NOMENCLATURE

BXF	3	S	01	01	N	018
aaa	b	c	dd	ee	f	ggg

● aaa	Barrier Type	BXF BAF	Explosion Proof / Intrinsically Safe suitable for classified area Intrinsically Safe suitable for safe area and purge panels
● b	Thread Connection	3 M S	3/4" NPT (available only for cULus and Atex) M25x1.5 (Atex only) 1 1/8"-12 UNF (MSHA only)
● c	Housing Material	A S	Aluminum (BAF only) T6 Nickel Plated 300 series stainless steel
● dd	Housing Connector	01	Shielded M12 Female "D" coded
● ee	Cable Connector	01 02 03	RJ45 Plug Male Shielded M12 Male "D" coded Shielded M12 Female "D" coded
● f	Approval	N X M	cULus ATEX MSHA
● ggg	Cable Length	018 ***	18" (457 mm) CAT5e (included in the 100 meters max) to be defined