

ETHERNET COUPLER BXF & BAF SERIES

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, ATEX or IECEx 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 70 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

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 of BXF series 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 the system, and can be run in traditional cable trays.

Industrial M12 "D" connection

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







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SPECIFICATIONS

IECEx / ATEX Certification:

BAF  I (M1) [Ex ia Ma] I
 II (1) G [Ex ia Ga] IIC
 II (1) D [Ex ia Da] IIIC

BXF3S & BXFMS  I M2 (M1) Ex d mb [ia Ma] I Mb
 II 2 (1) G Ex d mb [ia Ga] IIC T5 Gb
 II 2 (1) D Ex mb [ia Da] IIIC T100°C Db

ATEX certificate nr. DNV 14 ATEX 4192X
 IECEx certificate nr. IECEx DNV 14.0024X

cULus Certification:

BAF3S & BXF3S Class I, Group A,B,C,D, Class II, Group F,G (UL File nr. E305231)

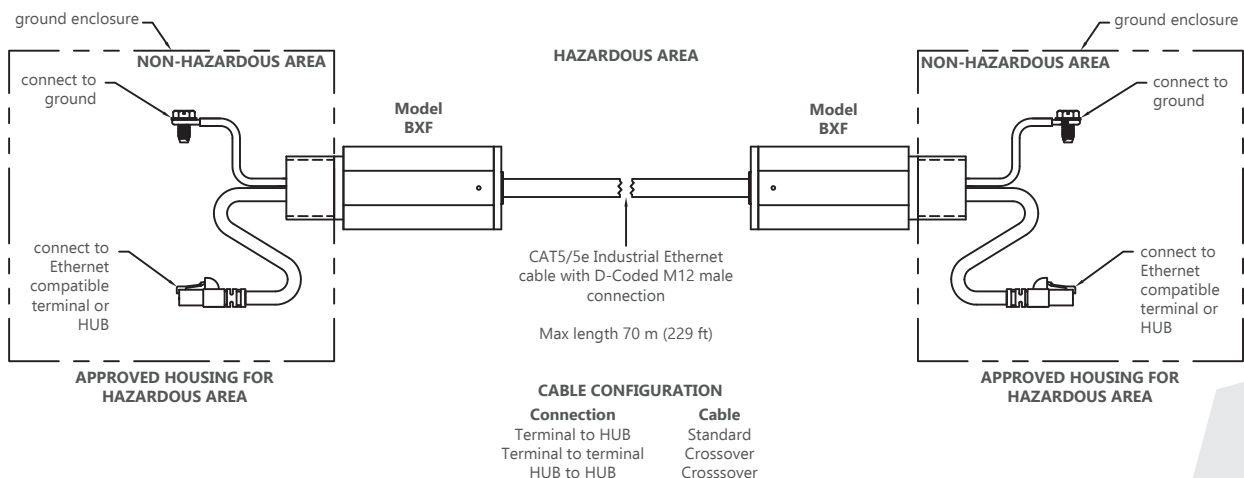
Maximum Fault Voltage	RMS 250 V
Current Protection	50 mA
Frequency Range	up to 100 MHz
Insertion loss	-5.5 dB
Total impedance	< 100 Ohm
Protection	3.6 V
Ambient Temperature Range	-20°C +60°C
Ethernet connection	IEEE 802.3 - 100BaseTX - 100 Mbps
Data connector (hazardous side)	M12 Industrial "D" coded connector
Housing Material	BXF = 300 SST (approximate weight 0.38 kg) BAF = T6 Aluminum nickel plated (approximate weight 0.2 kg)



INSTALLATION SCHEMES

DEVICES INSTALLED IN A CLASSIFIED AREA

A BXF Coupler must be used at either end of the Ethernet cable to ensure the safety of this system. The BXF must be securely mounted and grounded within a UL/CSA, MSHA or ATEX/IECEx approved explosion proof enclosure.



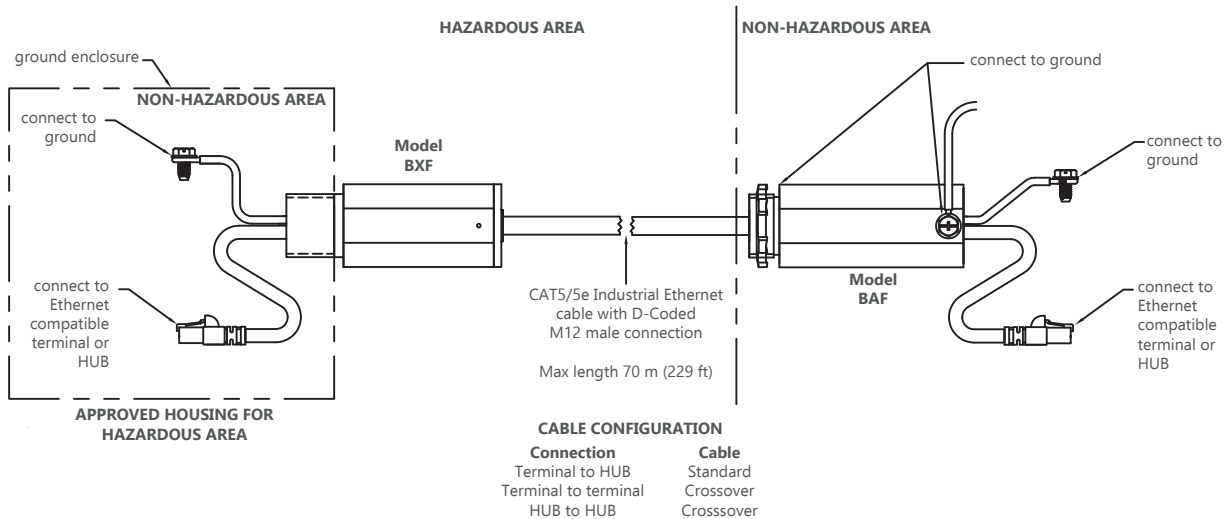


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DEVICES INSTALLED IN BOTH A CLASSIFIED AND A SAFE AREA

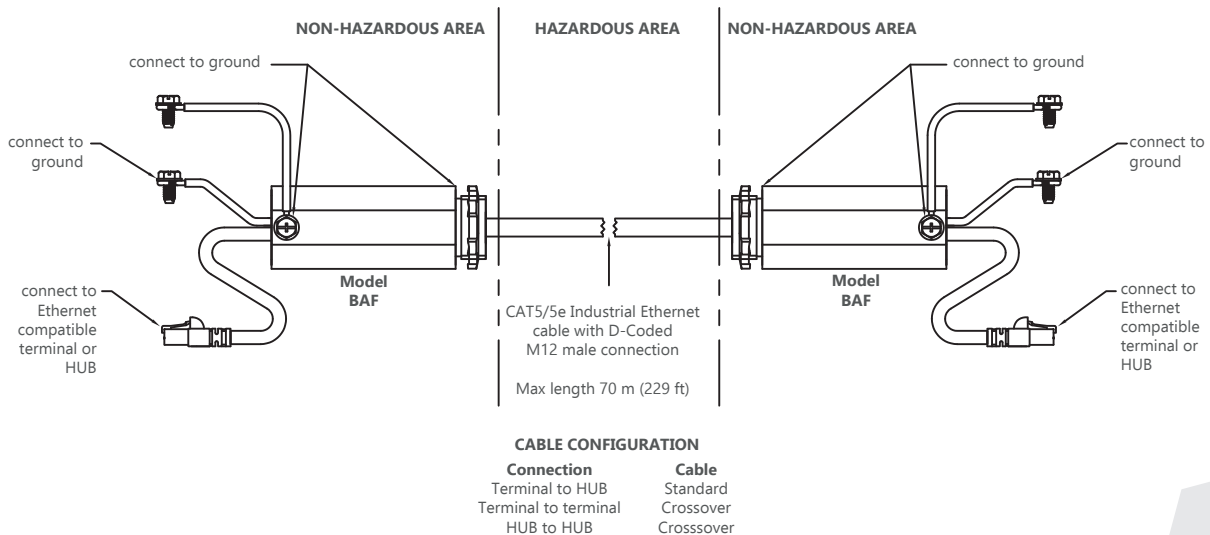
One BAF and one BXF Coupler must be used at opposite ends of the Ethernet cable to ensure the safety of this system.

The BXF must be securely mounted and grounded within a UL/CSA, MSHA or ATEX/IECEX approved explosion proof enclosure.



DEVICES INSTALLED IN A SAFE AREA (CABLE IN A CLASSIFIED AREA)

A BAF Coupler must be used at either end of the Ethernet cable to ensure the safety of this system.



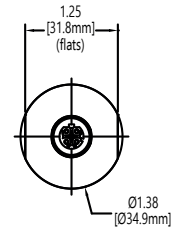
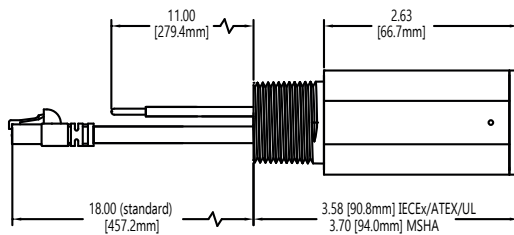


ETHERNET COUPLER BXF & BAF SERIES

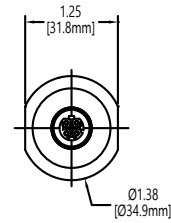
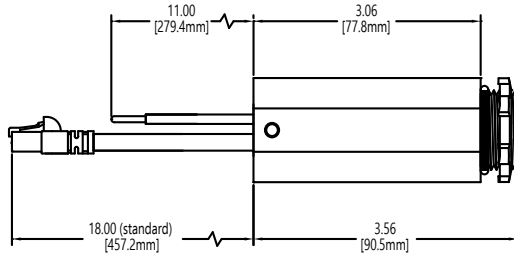


DIMENSIONAL DRAWINGS

BXF



BAF



NOMENCLATURE

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

<p>aaa Barrier Type BXF Explosion Proof / Intrinsically Safe suitable for classified area BAF Intrinsically Safe suitable for safe area and UL purge panels</p> <p>b Thread Connection 3 3/4" NPT (available only for cULus, IECEx and Atex) M M25x1.5 (IECEx and Atex only) S 1 1/8"-12 UNF (MSHA only)</p> <p>c Housing Material A Aluminum T6 Nickel Plated (BAF only) S 300 series stainless steel (BXF only)</p>	<p>dd Housing Connector 01 Shielded M12 Female "D" coded</p> <p>ee Cable Connector 01 RJ45 Plug Male 02 Shielded M12 Male "D" coded 03 Shielded M12 Female "D" coded</p> <p>f Approval N cULus X IECEx and ATEX M MSHA</p> <p>ggg Cable Length 018 18" (457 mm) CAT5e (included in the 70 meters max) *** to be defined</p>
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