



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ITS 16.0041X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2022-05-11\)](#)
[Issue 0 \(2016-09-29\)](#)
Date of Issue: 2024-05-07
Applicant: **Akshar Brass Industries**
Plot No. 46, 47, 50, 51 Survey No. 238, 245, 246 Naghedi Industrial Area,
Jamnagar - 361 006 Gujarat
India
Equipment: **Cable Glands, Blanking Elements/Stopping Plugs, Reducer, Adaptor, Adapter Nipple & Couplings and Breather/
drain plugs**
Optional accessory:
Type of Protection: **Flameproof, Increased Safety and Dust Ignition Protection by enclosure**
Marking: Ex db IIC Gb or
Ex eb IIC Gb
Ex tb IIIC Db
Ta: -60°C≤Ta≤+70°C/+105°C/+125°C/+135°C (See Description)
IECEX ITS 16.0041X

Approved for issue on behalf of the IECEx
Certification Body:

Mark Newman

Position:

Certificate Officer

Signature:
(for printed version)

Date:
(for printed version)

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Manufacturer: **Akshar Brass Industries**
Plot No. 46, 47, 50, 51 Survey No. 238, 245, 246 Naghedi Industrial Area,
Jamnagar - 361 006 Gujarat
India

Manufacturing locations: **Akshar Brass Industries**
Plot No. 46, 47, 50, 51 Survey No. 238,
245, 246 Naghedi Industrial Area,
Jamnagar - 361 006 Gujarat
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/ITS/ExTR16.0040/00](#)

[GB/ITS/ExTR16.0040/01](#)

[GB/ITS/ExTR16.0040/02](#)

Quality Assessment Report:

[GB/ITS/QAR16.0004/03](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Akshar Brass Industries manufacture CABTEK Brand Cable Glands, Blanking Elements/Stopping Plugs, Reducer, Adaptor, Adapter Nipple & Couplings and Breather/drain plugs.

See Annex 1 for further details

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex 1



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1.

1. Update of the new address of manufacturing location.
2. Additional evaluation of sizes of 16, 25s and M90x1.5 thread pitch changed from M90x2.0 in Cable Glands of E1FW, E1FX, E1FU, A2F, CWe, CXe, CUe type with addition of Shrouds.
3. In Stop Plug/Blanking Elements M90x1.5 and IECEx M100x1.5 thread pitch changed to M90x2.0 and M100x2.0.
4. Additional evaluation of IP68, PX2K, PXSS2K, A2F-MH, A2F-MHFC, A2F-MHRF, A2F-MHRM, A2FFF, A2FFFC, A2FFFRF, A2FFFRM, SS2KGPFF Cable Glands, Reducer(R), Adaptor(A), Adaptor Nipple (AN), Adaptor coupling (AC) and Breather/drain plugs were tested with the requirements of the latest standards IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-7:2017 and IEC 60079-31:2013
5. Update of the Condition of safe use for Reducer, Adaptor, Coupling and Breather/drain Plugs. Update of the drawings and Installation Manual to reflect the above changes.

Issue 2.

1. Update of the Standard IEC 60079-31:2022.
2. Description has been revised, and ordering code tables removed.
3. Additional evaluation of size of 20s in A2F-MH, CABLTC Cable Gland suitable for Barrier Compound Cable Gland for liquid tight metallic flexible hose and 20A and 20B in A2FFF.
4. Additional evaluation of IP66 of the A2F/E1FW/E1FX/E1FU type cable glands and Hexagon/Allen Stop Plug - Blanking Elements.
5. In Special Conditions of Certification following notes have been deleted:

Cable Glands:

- Install in accordance with requirements of IEC 60079-14.
- In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent.
- Installation should not be carried out under live conditions.

Blanking Elements / Stop Plug:

- Its user's responsibility to ensure the appropriate ingress protection level on the interfaces between these devices and the associated enclosure.
- When the stopping plugs are used for increased safety or dust protection and no thread seal is fitted the user shall ensure enclosure and stopping plug interface are suitably sealed, in accordance with IEC 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.
- The stopping plug is secured using a suitable locknut inside the enclosure for plain holes in increased safety enclosures.

Adapter, Reducers & Nipples:

- Its user's responsibility to ensure the appropriate ingress protection level on the interfaces between these devices and the associated enclosure.
- When the adaptors and reducers are used for increased safety or dust protection with no thread seal fitted the interface between the enclosure and the male thread and the female thread of the adaptor or reducer are to be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure.
- The thread seal is fitted the entry thread, in accordance with IEC 60079-14.
- In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent.

6. Update of the drawings and Installation Manual to reflect the above changes.

Annex:

[SFT IECEx OP 19f Annex 1 for IECEx CoC ABI.pdf](#)



Annex 1 to IECEx Certificate of Conformity

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Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
	SS2KGP-FF Series		
*Installation Manual for CW Cable Gland	IM / Cable Gland CW series	02	11/01/2024
*Installation Manual for E1F Cable Gland	IM / Cable Gland E1F series	02	11/01/2024
*Installation Manual for IP68 Cable Gland	IM / Cable Gland IP68 series	01	11/01/2024
*Installation Manual for Breather Drain Plug	IM / BDPE series	01	11/01/2024

DESCRIPTION OF THE EQUIPMENT

Akshar Brass Industries manufacture CABTEK Brand Cable Glands, Blanking Elements/Stopping Plugs, Reducer, Adaptor, Adapter Nipple & Coupling and Breathers/drain plugs are certified for Zone 1, 2, 21 and 22. Cable Glands are metallic in construction and intended to terminate circular armoured, unarmoured and braided cables and flat Cables (as defined by their type designations) into a threaded entry point within associated Flameproof, Increased safety or dust tight enclosures. Without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice and suitable for Cold Flow applications.

Cable Glands, Blanking Elements/Stopping Plugs, Breather Plug, Adaptor, Reducer, Adaptor Nipple and Coupling are intended for Indoor and outdoor use in the appropriate Hazardous areas are made from Brass or Stainless Steel SS316L, Cable sealing rubbers are made of Silicone and Substrate rubber made of Nylon providing environmental protection IP66/IP67/IP68 with entry thread of Metric and NPT (Taper threads) for Ex “db” Protection, While Ex “eb” protection having Metric, NPT (Taper Threads), BSP, PG and ET.

Cable Glands can be produced with extended entry thread with 20mm or 25mm length and conduit connection facility in gland as per customer need without changing flame path and cable clamping range.

- E1FW, E1FX and E1FU Double Compression Cable Glands with Universal Armoured Ring are designed for armoured cables
- CWe, CXe / CUe Single Compression Cable Glands with Universal Armoured Ring for armoured cables
- A2F and IP68 Cable Glands designed for non-armoured and braided cables
- PX2K Cable Gland are for armoured cable with Compound Barrier seal
- PXSS2K Cable Gland are for unarmoured cable with Compound Barrier Seal
- A2F-MH Cable Gland for Multi Core cable to terminate individually, 20s size Specially designed for Duplex and Simple Winding RTD Resistance Temperature Detector, Bearing Temperature Detector (BTD)
- A2F-MHFC, A2F-MHRF, A2F-MHRM Cable Gland for multi core cable to terminate individually with conduit connection
- CABLTC Cable Gland suitable for Barrier Compound Cable Gland for liquid tight metallic flexible hose
- A2F-FF Cable Gland for Flat/Tracer cable to terminate individually
- A2FFFFC, A2FFFRF, A2FFFRM Cable Gland for Flat/Tracer cable to terminate with conduit connection
- SS2KGP-FF Cable Gland for Flat/Tracer cable with double compression

The Blanking Elements/Stopping Plugs are manufactured with an external male thread along its length with the exception of a Hexagonal (HSP Series) or Allen (Dome) Head (ASP Series) at one end.

Adapter/Reducer/Nipple/Coupling

- Adaptor having a male thread entry and adapting to female thread same size or higher size

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- Reducer having male thread entry and reducing to female thread lower size
- Adaptor Nipple having same size male thread on both end
- Adaptor Coupling have same size female thread on both end

BDPE Series breather/drain plugs are designed to allow moisture emission from Ex e and Ex tb enclosures and to allow air within the enclosure to breathe with the surrounding atmosphere. Drainage channels through the body allow for the passage of moisture through the filter. The device may be screwed into the wall of an enclosure or into a through hole, being secured by a locknut.

Parallel threaded Breather Drains may be fitted with thread seal and screwed into the wall of an enclosure or into a through hole, being secured with a castellated locknut, they will maintain IP66 degree of protection.

Tapered threaded Breather Drain may be fitted with or without thread seal, see below for approved seals. When fitted with thread seal and secured into a through hole, they will maintain IP66 degree of protection.

Explanation on E1FW / E1FX / E1FU / A2F / CW e / CX e / CU e / IP68 / PX2K / PXSS2K Cable Glands:

** Cable Gland Size	Standard Entry Thread "C"				Optional Entry Thread "C"	
	Metric	NPT/BSP	ET (BSC)	PG	Metric	NPT
16	M16x1.5	3/8"	5/8"	PG9	-	-
20s16	M20x1.5	1/2"	3/4"	PG11	M25x1.5	3/4"
20s	M20x1.5	1/2"	3/4"	PG11	M25x1.5	3/4"
20	M20x1.5	1/2"	3/4"	PG13.5	M25x1.5	3/4"
25s	M25x1.5	3/4"	1"	PG16	M32x1.5	1"
25	M25x1.5	3/4"	1"	PG21	M32x1.5	1"
32	M32x1.5	1"	1 1/4"	PG29	M40x1.5	1 1/4"
40	M40x1.5	1 1/4"	1 1/2"	PG36	M50x1.5	1 1/2"
50s	M50x1.5	1 1/2"	2"	PG36	M63x1.5	2"
50	M50x1.5	2"	2"	PG42	M63x1.5	2 1/2"
63s	M63x1.5	2"	2 1/2"	PG48	M75x1.5	2 1/2"
63	M63x1.5	2 1/2"	2 1/2"	-	M75x1.5	3"
75s	M75x1.5	2 1/2"	3"	-	M90x2	3"
75	M75x1.5	3"	3"	-	M90x2	3 1/2"
90	M90x2	3 1/2"	3 1/2"	-	M100x2	4"

Explanation on A2F-MH, A2F-MHFC, A2F-MHRF, A2F-MHRM Cable Glands:

*Cable Gland Size	Standard Entry Thread "C"				Entry Thread "C"		Multi Hole Seal Detail		
	Metric	NPT/BSP	ET (BSC)	PG	Optional		Seal Hole Cable Ø (X)	Ordering Suffix for Seal	Number of Holes
					Metric	NPT/BSP			
16	M16x1.5	3/8"	5/8"	PG9	M20x1.5	1/2"	1.5	A	1 to 6
	M16x1.5	3/8"	5/8"	PG9	M20x1.5	1/2"	2.0	B	1 to 6
20s*	M20x1.5	1/2"	3/4"	PG13.5	M25x1.5	3/4"	3.7	C	1 to 2
20	M20x1.5	1/2"	3/4"	PG16	M25x1.5	3/4"	2.5	A	1 to 7
	M20x1.5	1/2"	3/4"	PG16	M25x1.5	3/4"	3.0	B	1 to 7
	M20x1.5	1/2"	3/4"	PG16	M25x1.5	3/4"	3.6	C	1 to 7
	M20x1.5	1/2"	3/4"	PG16	M25x1.5	3/4"	4.0	D	1 to 7
	M20x1.5	1/2"	3/4"	PG16	M25x1.5	3/4"	4.7	E	1 to 2
25	M25x1.5	3/4"	1"	PG21	M32x1.5	1"	2.5	A	1 to 7
	M25x1.5	3/4"	1"	PG21	M32x1.5	1"	3.0	B	1 to 7
	M25x1.5	3/4"	1"	PG21	M32x1.5	1"	3.6	C	1 to 7

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32	M25x1.5	¾"	1"	PG21	M32x1.5	1"	4.0	D	1 to 7
	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	2.5	A	1 to 7
	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	3.0	B	1 to 7
	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	3.6	C	1 to 7
	M32x1.5	1"	1¼"	PG29	M40x1.5	1¼"	4.0	D	1 to 7

Explanation on A2FFF, A2FFFC, A2FFFRF, A2FFFRM, SS2KGPFF Cable Glands:

*Cable Gland Size	Standard Entry Thread "C"			Optional Entry Thread "C"		Cable Range		No. of Flat Cable used
	Metric	NPT	ET (BSC)	Metric	NPT	Min	Max	
	20s	M20x1.5	½"	¾"	M25x1.5	¾"	4x6.2	
20	M20x1.5	½"	¾"	M25x1.5	¾"	5.7x8	8.7x13.5	1
20A	M20x1.5	1/2"	¾"	M25x1.5	¾"	1.4x4.0	1.75x4.6	3
20B	M20x1.5	1/2"	¾"	M25x1.5	¾"	1.4x4.0	1.75x4.6	6
25s	M25x1.5	¾"	1"	M32x1.5	1"	4x6.2	6.8x11.7	2
25	M25x1.5	¾"	1"	M32x1.5	1"	5.7x8	8.7x13.5	1
32s	M32x1.5	1"	1¼"	M40x1.5	1¼"	4x6.2	6.8x11.7	3
32	M32x1.5	1"	1¼"	M40x1.5	1¼"	5.7x8	8.7x13.5	3

*Cable Gland Size	Standard Entry Thread "T"		Optional Thread "T"		Entry Thread Length "C"		Max Cable Outer Sheath Dia "B"	Suitable for Conduit Pipe	
	Metric	NPT	Metric	NPT	Metric	NPT		ID "X"	OD "Y"
20s	M20x1.5	1/2"-14	M25x1.5	3/4"-14	16.00	20.00	7.80	9.8 - 10.3	14.2 - 15.6
20	M20x1.5	1/2"-14	M25x1.5	3/4"-14	16.00	20.00	10.40	12.1 - 13.0	17.0 - 19.1

Explanation on CABLTC

Explanation on Reducer(R), Adaptor(A), Adaptor Nipple (AN), Adaptor coupling (AC)

Threaded Adaptor and Reducer

Male Metric/NPT/BSP/ET(BSC) Entry Size	Female Metric/NPT/BSP/ET(BSC) Thread Size									
	M16 ¾", ⅝"ET	M20 ½", ¾"ET	M25 ¾", 1"ET	M32 1", 1¼"ET	M40 1¼", 1½"ET	M50 1½", 2"ET	M63 2", 2½"ET	M75 2½", 3"ET	M90 3", 3½"ET	M100 3½", 4"ET
M16 ¾", ⅝" ET	A	A	A							
M20 ½", ¾" ET	R	A	A	A	A					
M25 ¾", 1" ET	R	R	A	A	A	A				
M32 1", 1¼" ET	R	R	R	A	A	A	A			
M40 1¼", 1½" ET	R	R	R	R	A	A	A	A		

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M50 1½", 2" ET			R	R	R	A	A	A		
M63 2", 2½" ET				R	R	R	A	A		
M75 2½", 3" ET						R	R	A	A	
M90 3", 3½" ET							R	R	R	A

Male to Male (Adaptor Nipple) and Female to Female (Adaptor Coupling) Thread Converter

Male/Female Metric/NPT/ BSP/ET(BSC) Entry Size	Male/Female Metric/NPT/ BSP/ET(BSC) Thread Size							
	M16	M20	M25	M32	M40	M50	M63	M75
	⅜"	½"	¾"	1"	1¼"	1½"	2"	2½"
	⅝" ET	¾" ET	1" ET	1¼" ET	1½" ET	2" ET	2½" ET	3" ET
M16 ⅜", ⅝" ET								
M20 ½", ¾" ET								
M25 ¾", 1" ET								
M32 1", 1¼" ET								
M40 1¼", 1½" ET								
M50 1½", 2" ET								
M63 2", 2½" ET								
M75 2½", 3" ET								

Explanation on Ex e Breather/drain plug (BDPE)

"*" Cable Gland Size	Standard Entry Thread "C"				Optional Entry Thread "C"	
	Metric	NPT/BSP	ET (BSC)	PG	Metric	NPT
16	M16x1.5	⅜"	⅝"	PG9	-	-
20	M20x1.5	½"	¾"	PG13.5	-	-
25	M25x1.5	¾"	1"	PG21	M32x1.5	1"

Explanation on Blanking Elements / Stopping Plug ASP / Hexagonal HSP:

Size	Entry Thread Type			
	Metric	NPT/BSP	ET (BSC)	PG
16	M16x1.5	-	-	-
20	M20x1.5	-	-	-
25	M25x1.5	-	-	-
32	M32x1.5	-	-	-
40	M40x1.5	-	-	-
50	M50x1.5	-	-	-

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63	M63x1.5	-	-	-
75	M75x1.5	-	-	-
90	M90x2	-	-	-
100	M100x2	-	-	-
5/8"		-	5/8"	
3/8"	-	3/8"	3/8"	-
1/2"	-	1/2"	1/2"	-
3/4"	-	3/4"	3/4"	-
1"	-	1"	1"	-
1 1/4"	-	1 1/4"	1 1/4"	-
1 1/2"	-	1 1/2"	1 1/2"	-
2"	-	2"	2"	-
2 1/2"	-	2 1/2"	2 1/2"	-
3"	-	3"	3"	-
3 1/2"	-	3 1/2"	3 1/2"	-
7				PG7
9				PG9
11				PG11
13.5				PG13.5
16				PG16
21				PG21
29				PG29
36				PG36
42				PG42
48				PG48

Ambient and Ingress protection rating:

Product Type	Type of Protection		Ambient Temperature	IP Rating
	Ex d	Ex e		
A2F	✓	✓	-60°C ≤ Ta ≤ +125°C	IP66/67
E1FW/E1FX/E1FU	✓	✓	-60°C ≤ Ta ≤ +125°C	IP66/67
CWe/CXe/CUe	-	✓	-60°C ≤ Ta ≤ +125°C	IP67
PX2K	✓	✓	-60°C ≤ Ta ≤ +70°C	IP66/67
PXSS2K	✓	✓	-60°C ≤ Ta ≤ +70°C	IP66/67
IP68	✓	✓	-60°C ≤ Ta ≤ +105°C	IP68
CABLTC Cable Gland	✓	✓	-60°C ≤ Ta ≤ +70°C	IP66/67/68
A2FMH/A2FMHFC/A2FMHRF/A2FMHRM/A2FF F/A2FFFC/FA2FFRF/A2FFRM/SS2KGPFF	✓	✓	-60°C ≤ Ta ≤ +135°C	IP66/67
Adaptor, Reducer, Adaptor Nipple and Adaptor Coupling	✓	✓	-60°C ≤ Ta ≤ +135°C	IP66/67
Hexagon/Allen Stop Plug - Blanking Element	✓	✓	-60°C ≤ Ta ≤ +125°C	IP66/67
Breather/Drain Plug	—	✓	-60°C ≤ Ta ≤ +125°C	IP66



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Special Conditions of Use

Cable Glands:

1. Cable Glands are only suitable for fixed installations.
2. Cables must be effectively clamped from pulling and twisting.
3. Cable Glands shall not be used in enclosure where the temperatures at the point of entry / mounting are outside the range of ambient temperatures as detailed in general description.
4. The glands should only be used with substantially round cables and tightened to the rated torque with torque wrenches.
5. The cable glands are provided with a sealing ring with an axial sealing height of at least 5 mm. With reference to the clearance groove, the end-user should ensure that at least five complete turns of the connector thread are made. In order to guarantee a screw depth of 8 mm, the enclosure should have a wall thickness of min. 10 mm; if <10 mm, then if necessary, use a washer when cable entries are attached to the pressure-resistant enclosure.

Blanking Elements / Stop Plug:

1. The Blanking elements must not be used with a thread adaptor / reducer in flameproof applications.
2. When fitted in threaded holes the sealing face of the enclosure shall be smooth, the threaded hole shall be perpendicular to the wall of the enclosure and shall be a medium fit thread.
3. When the stopping plug is fitted in plain holes, the sealing face of the enclosure shall be smooth and at right angles to the enclosure face where the hole is in excess of 15mm diameter in enclosures consideration must be given to possible draw angle (taper) on the enclosure wall and the hole shall be no larger than 0.3 to 0.5mm above the major diameter of the male thread on the stopping plug.
4. These stopping plugs can be used in clearance holes or tapped entries on increased safety or flameproof enclosures as appropriate.

Adapter, Reducers & Nipples:

1. For Flameproof Ex "db" applications, only one adapter or reducer shall be used per cable entry.
2. The adaptors or reducers when used in flameproof applications must not be closed with a flameproof stopping plug.
3. When the adaptors or reducers are used for increased safety or dust protection in threaded hole in the enclosure must be at right angles to the enclosure wall, the female thread of the adaptor or reducer are to be suitably sealed, to maintain the ingress protection rating of the associated enclosure.
4. When the adaptors or reducers are used for increased safety or dust protection in a plain hole, the hole in the enclosure must be no greater than 0.7 mm greater than the male thread and the adaptor or reducer must be secured with a locknut the female thread of the adaptor or reducer are to be suitably sealed, to maintain the ingress protection rating of the associated enclosure.

Breather / Drain Plugs

1. The breather drain plugs shall be used with the supplied sealing washers and the installer shall ensure that the surface of the enclosure against which the sealing gasket seals are in good condition.
2. The breather/drains are only suitable for bottom entry applications within associated Ex eb and Ex tb enclosures.

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