

IEC—XB Series



IEC—XB Series Overview

Product Description

The **XB** Series from Eaton offers a complete terminal block system with a universal range of accessories. Marking, bridging and testing accessories are standardized across the different termination technologies—reducing inventory and logistics costs. The modular terminal block design allows for use of the different terminal block types together or individually, providing the highest degree of flexibility.

Application Description

The metal portion of the **XB** Series terminal blocks are made from high-grade, strain-crack and corrosion-proof copper alloys. They won't experience any electrolytic corrosion or rusting, even when moisture is present. The metal surfaces are protected with a lead-free, galvanic nickel or tin plating. The good electrical conductivity permits only a low temperature rise. The Polyamide 6.6 housings allow for operating temperatures up to 257°F (125°C) and are certified for inflammability Class V0 in accordance with UL 94.

Features

Global acceptance—The **XB** Series terminal blocks are designed to worldwide standards and meet the latest international requirements.

Flexible Plug-in bridge system—All three technologies (screw, spring and IDC) use the same bridge system, allowing for individual potential distribution and quickly bridged connections among the same terminal block type or across different types. The **XB** Series terminal blocks have two bridge shafts arranged in one line, making flexible chain bridging and skip bridging between non-adjacent terminal blocks possible. Plug-in bridges are available from 2 to 50 positions. Reducing bridges are also available to connect a larger terminal block to a smaller one.

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Large surface area for marking—All **XB** Series terminal blocks have generously sized surface areas for labeling. This allows for clearly labeled wiring that results in reduced startup time and simplifies activities such as testing and maintenance. There are provisions for marking individual terminal blocks and end stops, strips of terminal blocks, and large groups of terminal blocks.

Standardized testing system—All test plugs make contact in one of the easily accessible bridge shafts. A 2.3 mm diameter test plug is available for individual measuring wires. Modular test plugs are also available for more advanced testing.

Standards and Certifications

- UL® and cUL® recognized—File No. E67464
- CE approved
- LVD ①
 - EN 60947-7-1
 - EN 60947-7-2
 - EN 60998-2-3
 - EN 60352-4/A1
- CSA—File No. 244177



Note

- ① Not all standards apply to all terminal blocks. Contact Eaton for details.

Technical Data and Specifications

IEC—XB Series

Description	Specification
Insulation material	Polyamide 6.6
Dielectric strength	600 kV/cm
Creep resistance	600 CTI
Internal insulation resistance	10 ¹² ohms cm
Surface resistance	10 ¹⁰ ohms
Flammability rating	UL 94 V0
Continuous operating temperature	−40 to 257°F (−40 to 125°C)

Screw Connection



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Drawings
Online

Screw Connection Terminal Blocks Overview

Product Description

The XBUT Series uses a screw connection system that is accepted worldwide and is suitable in most applications. The maintenance-free connection provides the reliability you expect from Eaton.

Application Description

Designed for applications with high demands, the XBUT Series screw terminal block has a maintenance-free wire connection. re-tightening of the terminal screws is not necessary to ensure proper operation. The screw locking technique prevents the screws from backing out. Copper wires can be clamped without pre-treatment or ferrules can be used for splicing protection. Multiple conductors can be connected in the same clamping mechanism, saving space.

Features

- Maintenance-free connections
- Global acceptance
- Multi-conductor connections
- Flexible Plug-in bridge system
- Large surface area for marking
- Standardized testing system
- Metal parts made of tin-plated copper alloy

Standards and Certifications

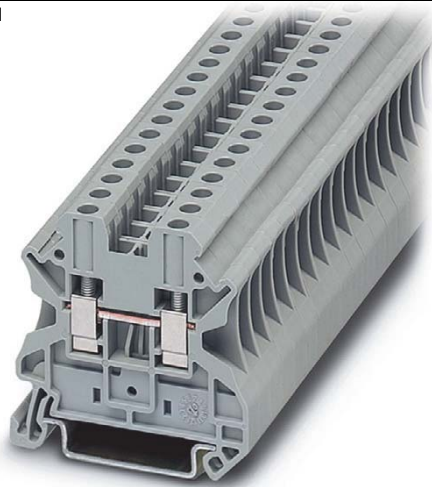
- UL and cUL recognized—File No. E67464
- CE approved
- LVD ①:
 - EN 60947-7-1
 - EN 60947-7-2
 - EN 60998-2-3
 - EN 60352-4/A1



Note

- ① Not all standards apply to all terminal blocks. Contact Eaton for details.

Single Level—Through-Feed



Single Level—Through-Feed

Product Description

The XBUT terminal blocks feature a compact design and maintenance-free screw connection. There is a double bridge shaft providing maximum flexibility.

The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks. There are numerous options for accessories,

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including those for testing and marking. Terminal blocks are available for wire cross-sections ranging from 12 AWG (2.5 mm²) to 2/0 AWG (150 mm²).

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Terminal Blocks, Fuse Blocks and Fuse Holders

IEC—XB Series

Product Selection

XBUT4



Screw Connection Single Level—Through-Feed

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	EN 50 019 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	800/32/26–12	750/22/28/26–12	600/20/26–12	Gray	50	XBUT25
					Blue	50	XBUT25BU
					Orange	50	XBUT25OG
					Yellow	50	XBUT25YE
					Red	50	XBUT25RD
					White	50	XBUT25WH
					Black	50	XBUT25BK
6.2 mm	10 AWG/4 mm ²	800/41/26–10	750/30/38/26–10	600/30/26–10	Gray	50	XBUT4
					Blue	50	XBUT4BU
					Orange	50	XBUT4OG
					Yellow	50	XBUT4YE
					Red	50	XBUT4RD
					White	50	XBUT4WH
					Black	50	XBUT4BK
					Green	50	XBUT4GN
					Brown	50	XBUT4BN
8.2 mm	8 AWG/6 mm ²	800/57/24–8	750/40/50/24–8	600/50/24–8	Violet	50	XBUT4VT
					Gray	50	XBUT6
					Blue	50	XBUT6BU
					Red	50	XBUT6RD
					White	50	XBUT6WH
					Black	50	XBUT6BK
10.2 mm	6 AWG/10 mm ²	1000/76/20–6	750/54/69/20–6	600/65/20–6	Green	50	XBUT6GN
					Gray	50	XBUT10
					Blue	50	XBUT10BU
					Orange	50	XBUT10OG
					Yellow	50	XBUT10YE
12 mm	4 AWG/16 mm ²	1000/101/17–4	—	600/85/16–4	Red	50	XBUT10RD
					Gray	50	XBUT16
					Blue	50	XBUT16BU
16 mm	0 AWG/35 mm ²	1000/150/15–0	—	600/150/14–1/0	Gray	50	XBUT35
					Blue	50	XBUT35BU

Accessories

Screw Connection Single Level—Through-Feed

Description	Color	Number of Positions	Standard Pack	XBUT25 Catalog Number	XBUT4 Catalog Number	XBUT6 Catalog Number	XBUT10 Catalog Number	XBUT16 Catalog Number	XBUT35 Catalog Number
End cover	Gray	—	50	XBACUT10	XBACUT10	XBACUT10	XBACUT10	XBACUT16	①
Partition plate	Gray	—	50	XBATUT10	XBATUT10	XBATUT10	XBATUT10	—	—
Plug-in bridge— for cross connections in the bridge shaft	Red	2	10	XBAFBS25	XBAFBS26	XBAFBS28	XBAFBS210	XBAFBS212	XBAFBS216
		3	50	XBAFBS35	XBAFBS36	—	—	—	—
		5	50	XBAFBS55	XBAFBS56	—	—	—	—
		10	10	XBAFBS105	XBAFBS106	—	—	—	—
		50	10	XBAFBS505	XBAFBS506	—	—	—	—
Test adapter	—	—	10	XBATSPAI4	XBATSPAI4	XBATSPAI4	—	—	—
2.3 mm diameter test plug	—	—	—	XBATSMPS-^①	XBATSMPS-^①	—	—	—	—
Modular test plug	—	—	10	XBATSPS5	XBATSPS6	XBATSPS8	—	—	—
Blank marker strip (strip of 10)	White	—	10	XBMZB5^②	XBMZB6^②	XBMZB8^②	XBMZB10^②	XBMZB12^②	XBMZB15^②

Notes

① Enclosed block, no end cover needed.

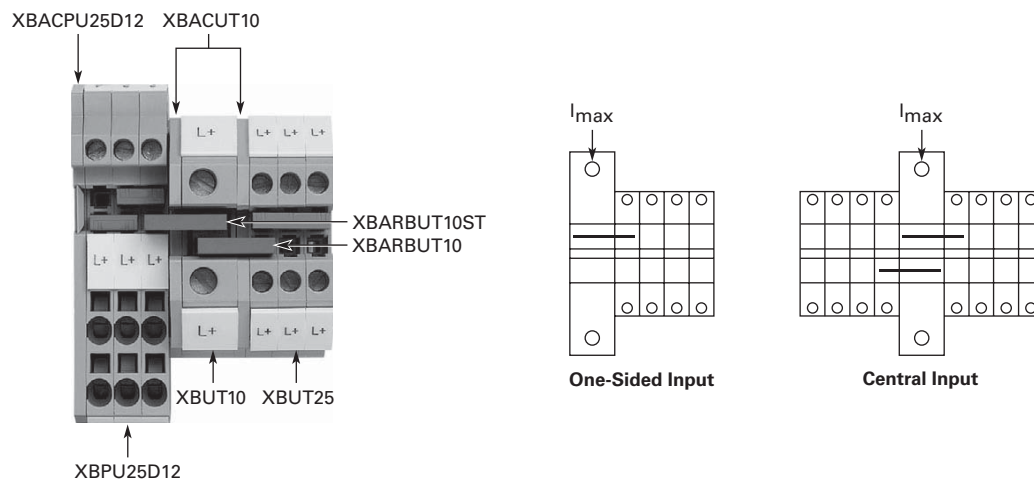
② For information on Printed Marking Tag Options, see **Page V7-T8-97**.For additional accessories, see **Page V7-T8-90**.

8.1

Terminal Blocks, Fuse Blocks and Fuse Holders

IEC—XB Series

XBUT with Reducing Bridge



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Step-Down Bridge with Standard Feed-Through Terminal Blocks

Input Terminal Blocks	Cross-Section	Pick-Off Terminal Blocks	Cross-Section AWG (mm ²)	One-Sided Input I_{max}	Central Input I_{max}	Bridge Catalog Number
XBUT10	6 AWG (10 mm ²)	XBUT25	12 (2.5)	40	65	XBARBUT10
		XBUT4	10 (4)	45	65	XBARBUT10
		XBPT25	12 (2.5)	40	65	XBARBUT10ST
		XBPT4	10 (4)	45	65	XBARBUT10ST
		XBQT15	14 (1.5)	35	65	XBARBUT10ST
		XBQT25	12 (2.5)	40	65	XBARBUT10ST
XBUT16	4 AWG (16 mm ²)	XBUT25	12 (2.5)	40	80	XBARBUT16
		XBUT4	10 (4)	45	90	XBARBUT16
		XBPT25	12 (2.5)	40	80	XBARBUT16ST
		XBPT4	10 (4)	45	90	XBARBUT16ST
		XBQT15	14 (1.5)	35	70	XBARBUT16ST
		XBQT25	12 (2.5)	40	80	XBARBUT16ST

Technical Data and Specifications

Screw Connection Single Level—Through-Feed

Description	XBUT25	XBUT4	XBUT6	XBUT10	XBUT16	XBUT35
Technical Data in Accordance with IEC						
Maximum load current in A/cross-section in mm ²	32/4	41/6	57/10	76/16	101/25	150/50
Rated surge voltage in kV/contamination class	8/3	8/3	8/3	8/3	8/3	8/3
Surge voltage category/insulating material group	III/II	III/I	III/I	III/I	III/I	III/I
Connection Capacity						
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	0.25–2.5/0.25–2.5	0.25–4/0.25–4	0.25–6/0.25–6	0.5–10/0.5–10	1.0–16/1.0–16	1.5–35/1.5–35
Multi-Conductor Connection (same cross-section)						
Solid/stranded in mm ²	0.14–1.5/0.14–1.5	0.14–1.5/0.14–1.5	0.2–2.5/0.2–2.5	0.5–4/0.5–4	1.0–6/1.0–4	1.5–16/1.5–10
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.5	0.25–1.5	0.25–1.5	0.5–2.5	1.0–4	1.5–10
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–1.5	0.5–2.5	0.5–4	0.5–6	0.75–10	1.5–10
Stripping length in inches (mm)	0.35 (9)	0.35 (9)	0.39 (10)	0.39 (10)	0.39 (10)	0.63 (16)
Thread	M3	M3	M4	M4	M5	M6
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	13.3–15.9 (1.5–1.8)	13.3–15.9 (1.5–1.8)	22.1–26.6 (2.5–3)	28.3–32.7 (3.2–3.7)

Dimensions

Approximate Dimensions in Inches (mm)

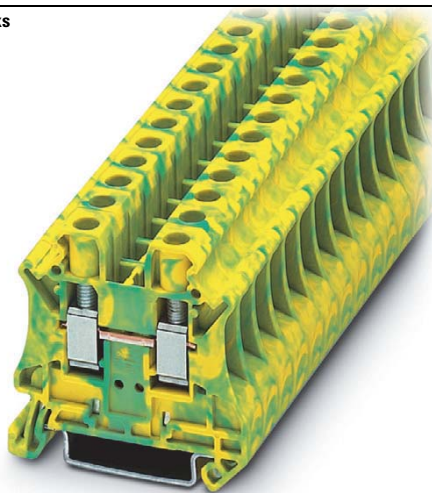
Screw Connection Single Level—Through-Feed

Catalog Number	Width	Length	Cover Width	Height for—	
				35 x 7.5 in	35 x 15 in
XBUT25	0.20 (5.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4	0.24 (6.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT6	0.32 (8.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT10	0.40 (10.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT16	0.47 (12.0)	2.08 (52.8)	0.09 (2.2)	2.16 (54.8)	2.45 (62.3)
XBUT35	0.63 (16.0)	2.37 (60.2)	—	2.59 (65.7)	2.88 (73.2)

Notes

- ① XBUT35 has an enclosed design. The use of an end cover is not required.
 ② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

Single Level—Ground Blocks



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Single Level—Ground Blocks

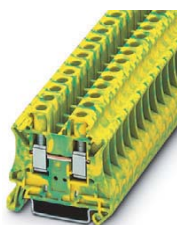
Product Description

The ground terminal blocks have the same shape and pitch as the standard terminal block, in a green-yellow housing. They easily snap

onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

Product Selection

XBUT6PE



Screw Connection Single Level—Ground Blocks

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	EN 50 019 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	—/—/26-12	—/—/26-12	—/—/26-12	Green/Yellow	50	XBUT25PE
6.2 mm	10 AWG/4 mm ²	—/—/26-10	—/—/26-10	—/—/26-10	Green/Yellow	50	XBUT4PE
8.2 mm	8 AWG/6 mm ²	—/—/24-8	—/—/24-8	—/—/24-8	Green/Yellow	50	XBUT6PE
10.2 mm	6 AWG/10 mm ²	—/76/20-6	—/54/69/20-6	—/—/20-6	Green/Yellow	50	XBUT10PE
12 mm	4 AWG/16 mm ²	—/101/15-4	—	—/—/16-4	Green/Yellow	50	XBUT16PE
16 mm	2 AWG/35 mm ²	—/125/15-2	—	—/—/14-1/0	Green/Yellow	50	XBUT35PE

Accessories

Screw Connection Single Level—Ground Blocks

Description	Color	Number of Positions	Standard Pack	XBUT25PE Catalog Number	XBUT4PE Catalog Number	XBUT6PE Catalog Number	XBUT10PE Catalog Number	XBUT16PE Catalog Number	XBUT35PE Catalog Number
End cover	Gray	—	50	XBACUT10	XBACUT10	XBACUT10	XBACUT10	XBACUT16	③
Partition plate	—	—	50	XBATUT10	XBATUT10	XBATUT10	XBATUT10	—	—
Plug-in bridge— for cross connections in the bridge shaft	Red	2	10	XBAFBS25	XBAFBS26	XBAFBS28	XBAFBS210	XBAFBS212	XBAFBS212
		3	50	XBAFBS35	XBAFBS36	—	—	—	—
		5	50	XBAFBS55	XBAFBS56	—	—	—	—
		10	10	XBAFBS105	XBAFBS106	—	—	—	—
		50	10	XBAFBS505	XBAFBS506	—	—	—	—
Test adapter	—	—	10	XBATSPA14	XBATSPA14	XBATSPA14	—	—	—
2.3 mm diameter test plug	—	—	—	XBATSMPS_①	XBATSMPS_①	—	—	—	—
Modular test plug	—	—	10	XBATSPS5	XBATSPS6	XBATSPS8	—	—	—
Blank marker strip (strip of 10)	White	—	10	XBMZB5 ②	XBMZB6 ②	XBMZB8 ②	XBMZB10 ②	XBMZB12 ②	XBMZB15 ②

Technical Data and Specifications

Screw Connection Single Level—Ground Blocks

Description	XBUT25PE	XBUT4PE	XBUT6PE	XBUT10PE	XBUT16PE	XBUT35PE
Technical Data in Accordance with IEC						
Maximum load current in A/cross-section in mm ²	—	—	—	76/16	101/25	125/50
Rated surge voltage in kV/contamination class	8/3	8/3	8/3	8/3	8/3	8/3
Surge voltage category/insulating material group	III/II	III/I	III/I	III/I	III/I	III/I
Connection Capacity						
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	0.25–2.5/0.25–2.5	0.25–4/0.25–4	0.25–6/0.25–6	0.5–10/0.5–10	1.0–16/1.0–16	1.5–35/1.5–35
Multi-Conductor Connection (same cross-section)						
Solid/stranded in mm ²	0.14–1.5/0.14–1.5	0.14–1.5/0.14–1.5	0.2–2.5/0.2–2.5	0.5–4/0.5–4	1.0–6/1.0–4	1.5–16/1.5–10
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.5	0.25–1.5	0.25–1.5	0.5–2.5	1.0–4	1.5–10
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–1.5	0.5–2.5	0.5–4	0.5–6	0.75–10	1.5–10
Stripping length in inches (mm)	0.35 (9)	0.35 (9)	0.39 (10)	0.39 (10)	0.39 (10)	0.63 (16)
Thread	M3	M3	M4	M4	M5	M6
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	13.3–15.9 (1.5–1.8)	13.3–15.9 (1.5–1.8)	22.1–26.6 (2.5–3)	28.3–32.7 (3.2–3.7)

Dimensions

Approximate Dimensions in Inches (mm)

Screw Connection Single Level—Ground Blocks

Catalog Number	Width	Length	Cover Width	Height for— 35 x 7.5 in	35 x 15 in
XBUT25PE	0.20 (5.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4PE	0.24 (6.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT6PE	0.32 (8.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT10PE	0.40 (10.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT16PE	0.47 (12.0)	2.08 (52.8)	0.09 (2.2)	2.16 (54.8)	2.45 (62.3)
XBUT35PE	0.63 (16.0)	2.37 (60.2)	—	2.59 (65.7)	2.88 (73.2)

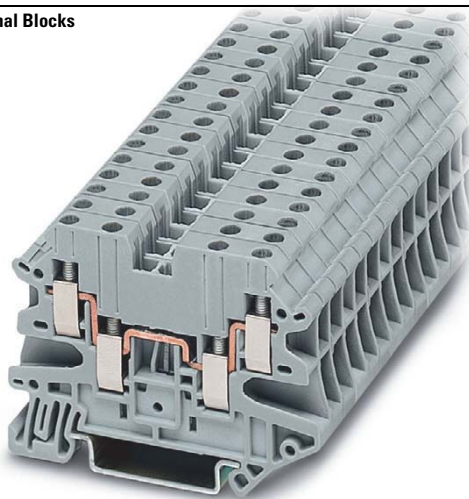
Notes

① For ordering information, see **Page V7-T8-101**.② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

③ XBUT35PE has an enclosed design. The use of an end cover is not required.

For additional accessories, see **Page V7-T8-90**.

Multi-Conductor Terminal Blocks



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Multi-Conductor Terminal Blocks

Product Description

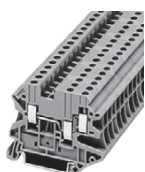
The multi-conductor terminal blocks offer a space-saving alternative to standard feed-through terminal blocks allowing for high density wiring. Often, three

connections have to be led to one terminal block. The XBUT...D12 terminal block accomplishes this without any additional terminal blocks or bridging required.

The XBUT...D22 terminal blocks allow four wires to be connected to one potential—and can therefore be used as compact power distributors.

Product Selection

XBUT25D12



Screw Connection Multi-Conductor Terminal Blocks, Three-Wire

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	500/28/26–12	150/20/26–12	Gray	50	XBUT25D12
				Blue	50	XBUT25D12BU
6.2 mm	10 AWG/4 mm ²	500/39/26–10	150/30/26–10	Gray	50	XBUT4D12
				Blue	50	XBUT4D12BU

XBUT4D22



Screw Connection Multi-Conductor Terminal Blocks, Four-Wire

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	500/28/26–12	150/20/26–12	Gray	50	XBUT25D22
				Blue	50	XBUT25D22BU
6.2 mm	10 AWG/4 mm ²	500/39/26–10	150/30/26–10	Gray	50	XBUT4D22
				Blue	50	XBUT4D22BU

Accessories

Screw Connection Multi-Conductor Terminal Blocks

Description	Color	Number of Positions	Standard Pack	XBUT25D12 Catalog Number	XBUT4D12 Catalog Number	XBUT25D22 Catalog Number	XBUT4D22 Catalog Number
End cover	Gray	—	50	XBACUT4D12	XBACUT4D12	XBACUT4D22	XBACUT4D22
End cover segment	Gray	—	50	XBASUT4	XBASUT4	XBASUT4	XBASUT4
Partition plate	—	—	50	—	—	XBATUTD22	XBATUTD22
Plug-in bridge—for cross connections in the bridge shaft	Red	2	10	XBAFBS25	XBAFBS26	XBAFBS25	XBAFBS26
		3	50	XBAFBS35	XBAFBS36	XBAFBS35	XBAFBS36
		5	50	XBAFBS55	XBAFBS56	XBAFBS55	XBAFBS56
		10	10	XBAFBS105	XBAFBS106	XBAFBS105	XBAFBS106
		50	10	XBAFBS505	XBAFBS506	XBAFBS505	XBAFBS506
Test adapter	—	—	10	XBATSPAI4	XBATSPAI4	XBATSPAI4	XBATSPAI4
2.3 mm diameter test plug	—	—	—	XBATSMPS- ^①	XBATSMPS- ^①	XBATSMPS- ^①	XBATSMPS- ^①
Modular test plug	—	—	10	XBATSPS5	XBATSPS6	XBATSPS5	XBATSPS6
Blank marker strip (strip of 10)	White	—	10	XBMZB5 ^②	XBMZB6 ^②	XBMZB5 ^②	XBMZB6 ^②

Technical Data and Specifications

Screw Connection Multi-Conductor Terminal Blocks

Description	XBUT25D12	XBUT4D12	XBUT25D22	XBUT4D22
Technical Data in Accordance with IEC				
Maximum load current in A/cross-section in mm ²	28/4	39/6	28/4	39/6
Rated surge voltage in kV/contamination class	6/3	6/3	6/3	6/3
Surge voltage category/insulating material group	III/I	III/I	III/I	III/I
Connection Capacity				
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	0.25–2.5/0.25–2.5	0.25–4/0.25–4	0.25–2.5/0.25–2.5	0.25–4/0.25–4
Multi-Conductor Connection (same cross-section)				
Solid/stranded in mm ²	0.14–1.0/0.14–1.0	0.14–1.0/0.14–1.5	0.14–1.0/0.14–1.0	0.14–1/0.14–1.5
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.0	0.25–1.5	0.25–1.0	0.25–1.5
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–1.0	0.5–1.0	0.5–1.0	0.5–1.0
Stripping length in inches (mm)	0.31 (8)	0.31 (8)	0.31 (8)	0.31 (8)
Thread	M3	M3	M3	M3
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)

Dimensions

Approximate Dimensions in Inches (mm)

Screw Connection Multi-Conductor Terminal Blocks

Catalog Number	Width	Length	Cover Width	Height for—	
				35 x 7.5 in	35 x 15 in
XBUT25D12	0.20 (5.2)	2.24 (56.8)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4D12	0.24 (6.2)	2.24 (56.8)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT25D22	0.20 (5.2)	2.52 (64.1)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4D22	0.24 (6.2)	2.52 (64.1)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)

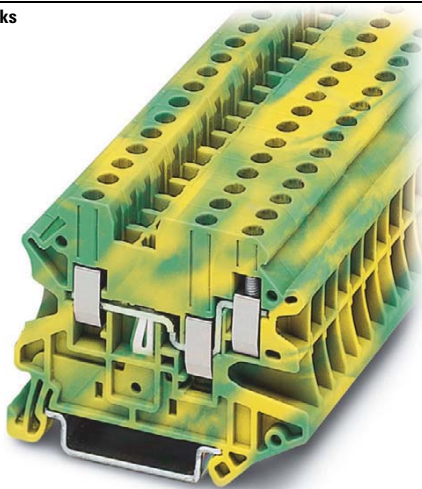
Notes

① For ordering information, see **Page V7-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

For additional accessories, see **Page V7-T8-90**.

Multi-Conductor Ground Blocks



8

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Multi-Conductor Ground Blocks

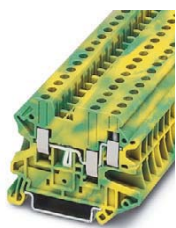
Product Description

The ground terminal blocks have the same shape and pitch as the standard terminal block, in a green-yellow housing. They easily snap

onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

Product Selection

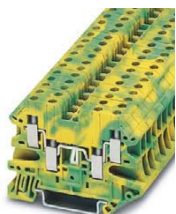
XBUT4D12PE



Screw Connection Multi-Conductor Ground Blocks—Three-Wire

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	—/—/26-12	—/—/26-12	Green/Yellow	50	XBUT25D12PE
6.2 mm	10 AWG/4 mm ²	—/—/26-10	—/—/26-10	Green/Yellow	50	XBUT4D12PE

XBUT25D22PE



Screw Connection Multi-Conductor Ground Blocks—Four-Wire

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	—/—/26-12	—/—/26-12	Green/Yellow	50	XBUT25D22PE
6.2 mm	10 AWG/4 mm ²	—/—/26-10	—/—/26-10	Green/Yellow	50	XBUT4D22PE

Accessories

Screw Connection Multi-Conductor Ground Blocks

Description	Color	Number of Positions	Standard Pack	XBUT25D12PE Catalog Number	XBUT4D12PE Catalog Number	XBUT25D22PE Catalog Number	XBUT4D22PE Catalog Number
End cover	Gray	—	50	XBACUT4D12	XBACUT4D12	XBACUT4D22	XBACUT4D22
End cover segment	Gray	—	50	XBASUT4	XBASUT4	XBASUT4	XBASUT4
Partition plate	—	—	50	—	—	XBATUTD22	XBATUTD22
Plug-in bridge—for cross connections in the bridge shaft	Red	2	10	XBAFBS25	XBAFBS26	XBAFBS25	XBAFBS26
		3	50	XBAFBS35	XBAFBS36	XBAFBS35	XBAFBS36
		5	50	XBAFBS55	XBAFBS56	XBAFBS55	XBAFBS56
		10	10	XBAFBS105	XBAFBS106	XBAFBS105	XBAFBS106
		50	10	XBAFBS505	XBAFBS506	XBAFBS505	XBAFBS506
Test adapter	—	—	10	XBATSPA14	XBATSPA14	XBATSPA14	XBATSPA14
2.3 mm diameter test plug	—	—	—	XBATSMPS- ^①	XBATSMPS- ^①	XBATSMPS- ^①	XBATSMPS- ^①
Modular test plug	—	—	10	XBATSPS6	XBATSPS6	XBATSPS6	XBATSPS6
Blank marker strip (strip of 10)	White	—	10	XBMZB5 ^②	XBMZB6 ^②	XBMZB5 ^②	XBMZB6 ^②

Technical Data and Specifications

Screw Connection Multi-Conductor Ground Blocks

Description	XBUT25D12PE	XBUT4D12PE	XBUT25D22PE	XBUT4D22PE
Technical Data in Accordance with IEC				
Maximum load current in A/cross-section in mm ²	—	—	—	—
Rated surge voltage in kV/contamination class	6/3	6/3	6/3	6/3
Surge voltage category/insulating material group	III/I	III/I	III/I	III/I
Connection Capacity				
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	0.25–2.5/0.25–2.5	0.25–4/0.25–4	0.25–2.5/0.25–2.5	0.25–4/0.25–4
Multi-Conductor Connection (same cross-section)				
Solid/stranded in mm ²	0.14–1.0/0.14–1.0	0.14–1.0/0.14–1.5	0.14–1.0/0.14–1.0	0.14–1.0/0.14–1.5
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.0	0.25–1.5	0.25–1.0	0.25–1.5
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–1.0	0.5–1.0	0.5–1	0.5–1
Stripping length in inches (mm)	0.31 (8)	0.31 (8)	0.31 (8)	0.31 (8)
Thread	M3	M3	M3	M3
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)

Dimensions

Approximate Dimensions in Inches (mm)

Screw Connection Multi-Connector Ground Blocks

Catalog Number	Width	Length	Cover Width	Height for— 35 x 7.5 in	35 x 15 in
XBUT25D12PE	0.20 (5.2)	2.24 (56.8)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4D12PE	0.24 (6.2)	2.24 (56.8)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT25D22PE	0.20 (5.2)	2.52 (64.1)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4D22PE	0.24 (6.2)	2.52 (64.1)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)

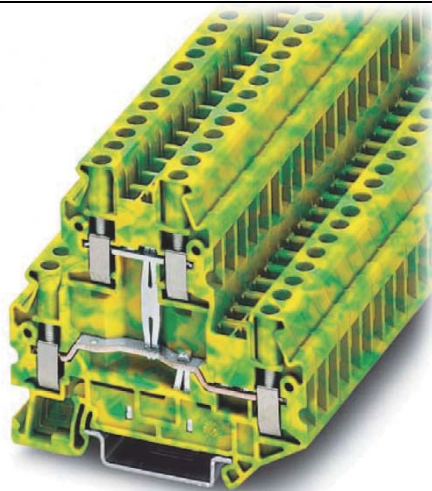
Notes

^① For ordering information, see **Page V7-T8-101**.

^② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

For additional accessories, see **Page V7-T8-90**.

Double Level



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Double Level

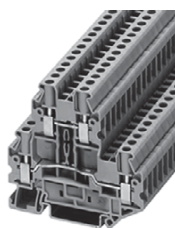
Product Description

The potentials of the XBUTT double-level terminal blocks are on two levels to reduce space requirements by 50% over single-level terminal

blocks. The XBUTT Series can be bridged on both levels for maximum flexibility. Marking can be provided at each termination point.

Product Selection

XBUTT4



Screw Connection Double Level Blocks

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Screw Connection Double Level Blocks						
5.2 mm	12 AWG/2 mm ²	800/32/26–12	600/20/26–12	Gray	50	XBUTT25
6.2 mm	10 AWG/4 mm ²	800/36/26–10	300/30/26–10	Gray	50	XBUTT4
				Blue	50	XBUTT4BU
				Red	50	XBUTT4RD

Screw Connection Double Level Block (terminal block with potential distribution between the levels)

6.2 mm	10 AWG/4 mm ²	800/36/26–10	300/30/26–10	Gray	50	XBUTT4PV
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XBUTT4PE



Screw Connection Double Level Ground Block

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Screw Connection Double Level—Ground Blocks						
6.2 mm	10 AWG/4 mm ²	—/—/26–10	—/—/26–10	Green/Yellow	50	XBUTT4PE

Accessories

Screw Connection Terminal/Ground Blocks, Double Level

Description	Color	Number of Positions	Standard Pack	XBUTT4 Catalog Number	XBUTT4PE Catalog Number
End cover	Gray	—	50	XBACUTT4	XBACUTT4
End cover segment	Gray	—	10	XBDPUTT4	XBDPUTT4
Partition plate	—	—	50	XBATUTT4	XBATUTT4
Plug-in bridge—for cross connections in the bridge shaft	Red	2	10	XBAFBS26	XBAFBS26
		3	50	XBAFBS36	XBAFBS36
		5	50	XBAFBS56	XBAFBS56
		10	10	XBAFBS106	XBAFBS106
		50	10	XBAFBS506	XBAFBS506
Test adapter	—	—	10	XBATSPA14	XBATSPA14
2.3 mm diameter test plug	—	—	—	XBATSMPS-^①	XBATSMPS-^①
Modular test plug	—	—	10	XBATSPS6	XBATSPS6
Blank marker strip (strip of 10)	White	—	10	XBMZB6^②	XBMZB6^②

Technical Data and Specifications

Screw Connection Double Level

Description	XBUTT4	XBUTT4PE
Technical Data in Accordance with IEC		
Maximum load current in A/cross-section in mm ²	30/6	—/6
Rated surge voltage in kV/contamination class	8/3	6/3
Surge voltage category/insulating material group	III/I	III/I
Connection Capacity		
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	0.25–4/0.25–4	0.25–4/0.25–4
Multi-Conductor Connection (same cross-section)		
Solid/stranded in mm ²	0.14–1.5/0.14–1.5	0.14–1.5/0.14–1.5
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.5	0.25–1.5
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–2.5	0.5–2.5
Stripping length in inches (mm)	0.35 (9)	0.35 (9)
Thread	M3	M3
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)

Dimensions

Approximate Dimensions in Inches (mm)

Screw Connection Double Level

Catalog Number	Width	Length	Cover Width	Height for— 35 x 7.5 in	35 x 15 in
XBUTT4	0.24 (6.2)	2.75 (69.9)	0.09 (2.2)	2.56 (65.0)	2.85 (72.5)
XBUTT4PE	0.24 (6.2)	2.75 (69.9)	0.09 (2.2)	2.56 (65.0)	2.85 (72.5)

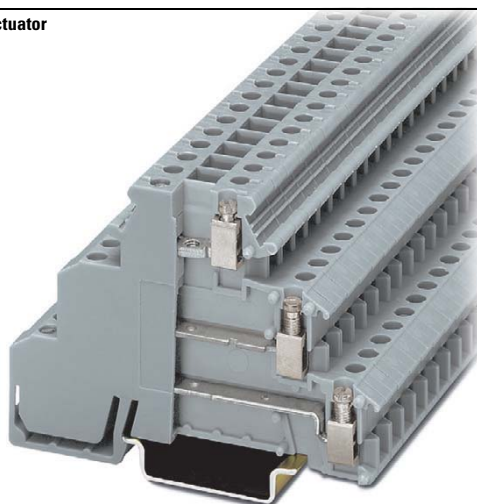
Notes

① For ordering information, see **Page V7-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

For additional accessories, see **Page V7-T8-90**.

Triple Level Sensor/Actuator

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Triple Level Sensor/Actuator**Product Description**

The XB3UK sensor terminal blocks reduce installation time by terminating three-wire devices such as photoelectric and proximity sensors in a single terminal block. The XB3UK Series accommodates a design where the positive and negative connections are

grouped so that only the signal lines and one pair of wires for the power supply need to be wired between the terminal box and the control. The upper level accommodates the markable feed-through terminals for the signal line. The two lower terminal points can be

bridged. These are used for the sensor power supply. The positive and negative potential can be fed into the bridges with XB3UKF25. The first sensor can also be connected to this three-wire feed-through block.

Product Selection

XB3UKA25

**Screw Connection Triple Level Sensor/Actuator**

Terminal Width	Maximum Wire Size	Connection Data in V/A/AWG	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Screw Connection Triple Level							
6.2 mm	14 AWG/2.5 mm ²	250/26/24–12	—	300/15/30–14	Gray	50	XB3UKA25
Screw Connection Triple Level with Red LED, 15–30 Vdc, 2.5–7.5A							
6.2 mm	14 AWG/2.5 mm ²	250/26/24–12	—	300/15/30–14	Gray	50	XB3UKA25L24

XB3UKF25

**Screw Connection Triple Level Sensor/Actuator**

Terminal Width	Maximum Wire Size	Connection Data in V/A/AWG	IEC 60 947-7-1 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Screw Connection Triple Level							
6.2 mm	14 AWG/2.5 mm ²	—	250/30/24–12	300/15/30–14	Gray	50	XB3UKF25
					Blue	50	XB3UKF25BU

XB3UKA25PE**Screw Connection Triple Level Sensor/Actuator**

Terminal Width	Maximum Wire Size	Connection Data in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Screw Connection Triple Level						
6.2 mm	14 AWG/2.5 mm ²	250/26/24–12	300/15/30–14	Gray	50	XB3UKA25PE
Screw Connection Triple Level with Red LED, 15–30 Vdc, 2.5–7.5A						
6.2 mm	14 AWG/2.5 mm ²	250/26/24–12	300/15/30–14	Gray	50	XB3UKA25PEL24

XB3UKF25PE**Screw Connection Triple Level Sensor/Actuator**

Terminal Width	Maximum Wire Size	Connection Data in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Screw Connection Triple Level						
6.2 mm	14 AWG/2.5 mm ²	—	300/15/30–14	Gray	50	XB3UKF25PE

Accessories**Screw Connection Triple Level Sensor/Actuator**

Description	Color	Number of Positions	Standard Pack	XB3UKA25 Catalog Number	XB3UKF25 Catalog Number	XB3UKA25PE Catalog Number	XB3UKF25PE Catalog Number
Insertion bridge	Blue	80	1	XBAEB80DIKB	XBAEB80DIKB	XBAEB80DIKB	XBAEB80DIKB
	Red	80	1	XBAEB80DIKR	XBAEB80DIKR	XBAEB80DIKR	XBAEB80DIKR
Insertion bridge	Blue	10	10	XBAEB10DIKB	XBAEB10DIKB	XBAEB10DIKB	XBAEB10DIKB
	Red	10	10	XBAEB10DIKR	XBAEB10DIKR	XBAEB10DIKR	XBAEB10DIKR
Blank marker strip (strip of 10)	White	—	10	XBMZB6 ①	XBMZB6 ②	XBMZB6 ②	XBMZB6 ②

Notes

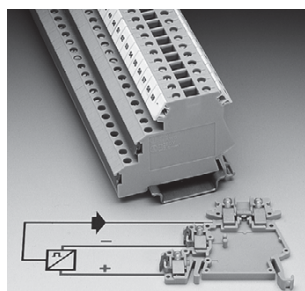
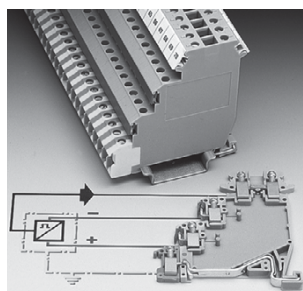
① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

For additional accessories, see **Page V7-T8-90**.

Technical Data and Specifications

Screw Connection Triple Level Sensor/Actuator

Description	XB3UKA25	XB3UKF25	XB3UKA25PE	XB3UKF25PE
Technical Data in Accordance with IEC				
Maximum load current in A/cross-section in mm ²	26/2.5	30/4	26/2.5	26/2.5
Maximum cross section with insertion bridge solid/stranded in mm ²	4/2.5	4/2.5	4/2.5	4/2.5
Rated surge voltage in kV/contamination class	4/3	4/3	4/3	6/3
Surge voltage category/insulating material group	III/1	III/1	III/1	III/1
Connection Capacity				
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	0.25–2.5/0.25–2.5	0.25–2.5/0.25–2.5	0.25–2.5/0.25–2.5	0.25–2.5/0.25–2.5
Multi-Conductor Connection (same cross-section)				
Solid/stranded in mm ²	0.2–1.0/0.2–1.0	0.2–1.0/0.2–1.0	0.2–1.0/0.2–1.0	0.2–1.0/0.2–1.0
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.0	0.25–1.0	0.25–1.0	0.25–1.0
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–1.0	0.5–1.0	0.5–1.0	0.5–1.0
Stripping length in inches (mm)	0.31 (8)	0.31 (8)	0.31 (8)	0.31 (8)
Thread	M3	M3	M3	M3
Torque in in-lb (Nm)	4.4–5.3 (0.5–0.6)	4.4–5.3 (0.5–0.6)	4.4–5.3 (0.5–0.6)	4.4–5.3 (0.5–0.6)

Wiring for Three-Level
Sensor Terminal BlocksWiring for Four-Level
Sensor Terminal Blocks

Dimensions

Approximate Dimensions in Inches (mm)

Screw Connection Triple Level Sensor/Actuator

Catalog Number	Width	Length	Height for—	
			35 x 7.5 in	35 x 15 in
XB3UKA25	0.24 (6.2)	2.17 (55.0)	2.15 (54.5)	2.44 (62.0)
XB3UKF25	0.24 (6.2)	2.85 (72.5)	2.15 (54.5)	2.44 (62.0)
XB3UKA25PE	0.24 (6.2)	2.46 (62.5)	2.76 (70.0)	3.05 (77.5)
XB3UKF25PE	0.24 (6.2)	3.25 (82.5)	2.76 (70.0)	3.05 (77.5)

Fuse Terminal Blocks



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Fuse Terminal Blocks

Product Description

The UT Series fuse terminal blocks come in two varieties—lever type and cap. Each performs two functions. They act as a fuse carrier for most common North American and European fuses and they

allow for potential distribution with the double bridge shaft. The terminal blocks therefore allow bypass routing of two separate potentials next to each other. This has the advantage of a time-saving

potential infeed and a correct, functional configuration of the terminal strip. For signaling a triggered fuse, fuse terminal blocks with light indicators are available (for both AC and DC voltage).

Product Selection

XBUT4FBE



Screw Connection Fuse Terminal Blocks, for 5 x 20 mm Fuse

Terminal Width	Maximum Wire Size	IEC 60 947-7-3 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Fuse Terminal Blocks						
6.2 mm	10 AWG/4 mm ²	①/6.3/26–10	600/6.3/26–10	Black	50	XBUT4FBE
Fuse Terminal Blocks with LED 12–30V, 1–2.5 mA						
6.2 mm	10 AWG/4 mm ²	①/6.3/26–10	600/6.3/26–10	Black	50	XBUT4FBEL24
Fuse Terminal Blocks with LED 30–60V, 0.8–2.0 mA						
6.2 mm	10 AWG/4 mm ²	①/6.3/26–10	600/6.3/26–10	Black	50	XBUT4FBEL60
Fuse Terminal Blocks with LED 110–250V, 0.5–2.5 mA						
6.2 mm	10 AWG/4 mm ²	①/6.3/26–10	600/6.3/26–10	Black	50	XBUT4FBEL250

Note

① As disconnect terminal block 400V, as fuse terminal block 250V.

8.1

Terminal Blocks, Fuse Blocks and Fuse Holders

IEC—XB Series

XBUT6FBN



Screw Connection Fuse Terminal Blocks for 6.3 x 32 mm (1/4 in x 1-1/4 in) Fuse

Terminal Width	Maximum Wire Size	IEC 60 947-7-3 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Fuse Terminal Blocks						
8.2 mm	8 AWG/6 mm ²	①/10/24-8	400/10/24-8	Black	50	XBUT6FBN
Fuse Terminal Blocks with LED 12-30V, 1-2.5 mA						
8.2 mm	8 AWG/6 mm ²	①/10/24-8	400/10/24-8	Black	50	XBUT6FBNL24
Fuse Terminal Blocks with LED 30-60V, 0.8-2.0 mA						
8.2 mm	8 AWG/6 mm ²	①/10/24-8	400/10/24-8	Black	50	XBUT6FBNL60
Fuse Terminal Blocks with LED 110-250V, 0.5-2.5 mA						
8.2 mm	8 AWG/6 mm ²	①/10/24-8	400/10/24-8	Black	50	XBUT6FBNL250

8

XBUK10FBCE



Screw Connection Fuse Terminal Blocks, XBUK10FBC

Terminal Width	Maximum Wire Size	IEC 60 947-7-3 with Fuse in V/A/AWG	IEC 60 947-7-3 as Disconnected t.b. in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Fuse Terminal Blocks for 5 x 20 mm fuse							
12 mm	6 AWG/16 mm ²	①/①/20-4	800/10/20-6	300/20/22-6	Black	50	XBUK10FBCE
Fuse Terminal Blocks for 6.3 x 32 mm (1/4 in x 1-1/4 in) fuse							
12 mm	6 AWG/16 mm ²	①/①/20-4	800/10/20-6	300/20/22-6	Black	50	XBUK10FBCN
Fuse Terminal Blocks with Light Indicator 15-30V, 1-2.5 mA, 5 x 20 mm							
12 mm	6 AWG/16 mm ²	①/①/20-4	800/10/20-6	300/20/22-6	Black	50	XBUK10FBCEL24
Fuse Terminal Blocks with Light Indicator 15-30V, 1-2.5 mA, 6.3 x 32 mm							
12 mm	6 AWG/16 mm ²	①/①/20-4	800/10/20-6	300/20/22-6	Black	50	XBUK10FBCNL24
Fuse Terminal Blocks with Light Indicator 110-250V, 0.5-1.1A, 5 x 20 mm							
12 mm	6 AWG/16 mm ²	①/①/20-4	800/10/20-6	300/20/22-6	Black	50	XBUK10FBCEL250
Fuse Terminal Blocks with Light Indicator 110-250V, 0.5-1.1A, 6.3 x 32 mm							
12 mm	6 AWG/16 mm ²	①/①/20-4	800/10/20-6	300/20/22-6	Black	50	XBUK10FBCNL250

Cartridge Fuse Inserts 5 x 20 mm Based on DIN EN 60 947-7-3: 2003-7

Terminal Blocks	U (V)	Overload Protection		Short-Circuit Protection Only		I _{max.} (A)
		Individual	Interconnected	Individual	Interconnected	
XBUT4FBE	250	1.6W	1.6W	4W	2.5W	6.3

Notes

Max. power dissipation at 73.4°F (23°C) based on DIN EN 60 947-7-3: 2003-7.

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified above is not exceeded. Details can be obtained from the fuse suppliers.

If the fuse is defective, the downstream circuit is not off load.

① As disconnect terminal block 500V, as fuse terminal block 400V.

Accessories

Screw Connection Fuse Terminal Blocks

Description	Color	Number of Positions	Standard Pack	XBUT4FBE Catalog Number	XBUT6FBN Catalog Number	XBUK10FBCE Catalog Number
End cover	—	—	—	①	①	—
Plug-in bridge—for cross connections in the bridge shaft	Red	2	10	XBAFBS26	XBAFBS28	—
		3	50	XBAFBS36	XBAFBS38	—
		5	50	XBAFBS56	XBAFBS58	—
		10	10	XBAFBS106	XBAFBS108	—
		50	10	XBAFBS506	—	—
Blank marker strip center labeling (strip of 10)	White	—	—	XBMZB5 ②	XBMZB6 ②	—
Blank marker strip external labeling (strip of 10)	White	—	—	XBMZB6 ②	XBMZB8 ②	—
Fixed bridge	—	2	10	—	—	XBAFBI212
Screw heads with insulating collar	—	10	10	—	—	XBAFBI1012
Blank marker strip (strip of 10)	White	—	10	—	—	XBMZB6 ②

Technical Data and Specifications

Screw Connection Fuse Terminal Blocks

Description	XBUT4FBE	XBUT4FBN	XBUK10FBCE
Technical Data in Accordance with IEC			
Fuse type/dimensions in (mm)	—	—	G/5 x 20/5 x 25/6.3 x 32
Maximum cross section with insertion bridge solid/stranded in mm ²	6.3/6	10/10	10/10
Rated surge voltage in kV/contamination class	4/3	4/3	4/3
Surge voltage category/insulating material group	III/II	III/II	III/I
Connection Capacity			
Stranded with ferrule/with plastic sleeve in mm ²	0.25–4/0.25–4	0.25–6/0.25–6	0.5–10/0.5–10
Multi-Conductor Connection (same cross-section)			
Solid/stranded in mm ²	0.14–1.5/0.14–1.5	—	0.5–4/0.5–4
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.5	—	0.5–4
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–2.5	0.5–4	0.5–10
Stripping length in inches (mm)	0.35 (9)	0.39 (10)	0.43 (11)
Thread	M3	M4	M4
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	13.3–15.9 (1.5–1.8)	13.3–15.9 (1.5–1.8)

Dimensions

Approximate Dimensions in Inches (mm)

Screw Connection Fuse Terminal Blocks

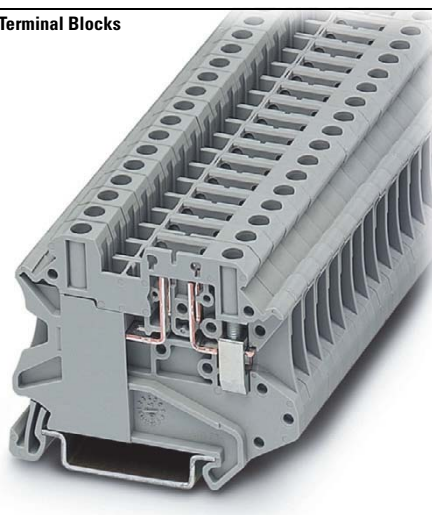
Catalog Number	Width	Length	Height for—		
			35 x 7.5 in	35 x 15 in	32 in
XBUT4FBE	0.24 (6.2)	2.24 (56.8)	2.87 (73.0)	3.17 (80.5)	—
XBUT4FBN	0.32 (8.2)	2.24 (56.8)	2.87 (73.0)	3.17 (80.5)	—
XBUK10FBCE	0.47 (12.0)	2.44 (62.0)	2.32 (59.0)	2.62 (66.5)	2.52 (64.0)

Notes

① XBUT4FBE and XBUT6FBN have an enclosed design. The use of an end cover is not required.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.For additional accessories, see **Page V7-T8-90**.

Disconnect and Component Terminal Blocks

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Disconnect and Component Terminal Blocks**Product Description**

The **XB** Series includes application specific terminal blocks like the XBUT4TG disconnect block that accommodates disconnect component and fuse terminal blocks. It can also be bridged with standard terminal blocks via the double bridge shaft. The component plug XBPCO serves to accommodate different components such as resistors or capacitors.

5 x 20 mm fuses can be inserted into the fuse plug XBPFU, also available with light indication. The XBUT4MT knife disconnect terminal block features a compact design and a high current carrying capacity of 16A. Versions with test socket screws provide a test option for 2.3 mm diameter test plugs on both sides of the disconnect point.

Product Selection

XBUT4TG
Disconnect

Screw Connection Disconnect and Component Terminal Blocks

Terminal Width	Maximum Wire Size	Connection Data in V/A/AWG	UL-cUL Ratings for Disconnect in V/A/AWG	UL-cUL Ratings for Disconnect with Test Sockets in V/A/AWG	Color	Standard Pack	Catalog Number
Screw Connection Disconnect							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Gray	50	XBUT4TG
Screw Connection Disconnect with Test Sockets							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Gray	50	XBUT4TGP
Component Plug							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Gray	10	XBPC0
Fuse Plug							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Black	10	XBPFU
Fuse Plug with Light Indicator for 12–30V, 1–2.5 mA							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Black	10	XBPFUL24
Fuse Plug with Light Indicator for 110–250V, 0.5–2.5 mA							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Black	10	XBPFUL250
Screw Connection Disconnect Knife Disconnect							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Gray	50	XBUT4MT
Screw Connection Disconnect Knife Disconnect with Test Sockets							
6.2 mm	10 AWG/4 mm ²	500/16/26–10	600/16/26–10	300/16/26–10	Gray	50	XBUT4MTP
Screw Connection Terminal Blocks with Integrated Diodes							
6.2 mm	12 AWG/4 mm ²	500/32/24–10	600/30/26–10	—	Gray	50	XBUKK4DIO

XBTKT25 Thermal
Electric Voltage

Screw Connection Thermoelectric Voltage Terminal Blocks

Terminal Width	Maximum Wire Size	Connection Data in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
Copper/Constantan (CU/CUNI44)						
10.4 mm	12 AWG/2.5 mm ²	400/—/24–12	300/10/28–12	Gray	50	XBTKT25 (Type T)
Iron/Constantan (FE/CUNI44)						
10.4 mm	12 AWG/2.5 mm ²	400/—/24–12	300/10/28–12	Gray	50	XBTKJ25 (Type J)
Nickel-Chrome/Constantan (NICR/CUNI44)						
10.4 mm	12 AWG/2.5 mm ²	400/—/24–12	300/10/28–12	Gray	50	XBTK25 (Type E)
Nickel-Chrome/Nickel (NICRNI)						
10.4 mm	12 AWG/2.5 mm ²	400/—/24–12	300/10/28–12	Gray	50	XBTKK25 (Type K)
Copper/Copper Nickel (E-CU/A-CU)						
10.4 mm	12 AWG/2.5 mm ²	400/—/24–12	300/10/28–12	Gray	50	XBTKR25 (Type R)

Accessories

Screw Connection Disconnect and Component Terminal Blocks

Description	Color	Number of Positions	Standard Pack	XBUT4TG Catalog Number	XBUT4MT Catalog Number	XBUKK4D10 Catalog Number	XBTKT25 Catalog Number
Plug-in bridge—for cross connections in the bridge shaft	Red	2	10	XBAFBS26	XBAFBS26	—	—
		3	50	XBAFBS36	XBAFBS36	—	—
		5	50	XBAFBS56	XBAFBS56	—	—
		10	10	XBAFBS106	XBAFBS106	—	—
		50	10	XBAFBS506	XBAFBS506	—	—
Test adapter	—	—	10	XBATSPAI4	XBATSPAI4	—	—
2.3 mm diameter test plug	—	—	—	XBATSMPS- ^①	XBATSMPS- ^①	—	—
Modular test plug	—	—	10	XBATSDPPS6	XBATSDPPS6	—	—
Blank marker strip (strip of 10)	White	—	10	XBMZB6 ^②	XBMZB6 ^②	XBMZB6 ^②	XBMZB10 ^②
End cover	Gray	—	10	—	—	XBACUKK35	XBACTK4
Spacer cover	Gray	—	10	—	—	XBADGUKK35	—
Spacer plate	—	—	10	—	—	XBADPUKK35	—
Partition plate	—	—	—	—	—	—	XBATTK4
Fixed bridge	—	10	10	—	—	XBAFBI106	—

Technical Data and Specifications

Screw Connection Disconnect and Component Terminal Blocks

Description	XBUT4TG	XBUT4MT	XBUKK4D10	XBTK
Technical Data in Accordance with IEC				
Maximum load current in A/cross-section in mm ²	16/6	16/6	32/4	—
Rated surge voltage in kV/contamination class	6/3	6/3	6/3	—
Surge voltage category/insulating material group	III/I	III/I	III/I	—
Connection Capacity				
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	0.25–4/0.25–4	0.25–4/0.25–4	0.25–4/0.25–2.5	—
Multi-Conductor Connection (same cross-section)				
Solid/stranded in mm ²	0.14–1.5/0.14–1.5	0.14–1.5/0.14–1.5	0.2–1.5/0.2–1.5	—
Stranded with ferrules without plastic sleeve in mm ²	0.25–1.5	0.25–1.5	0.25–1.5	—
Stranded with twin ferrule with plastic sleeve in mm ²	0.5–2.5	0.5–2.5	0.5–1.5	—
Stripping length in inches (mm)	0.35 (9)	0.35 (9)	0.31 (8)	0.28 (7)
Thread	M3	M3	M3	M3
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)

Dimensions

Approximate Dimensions in Inches (mm)

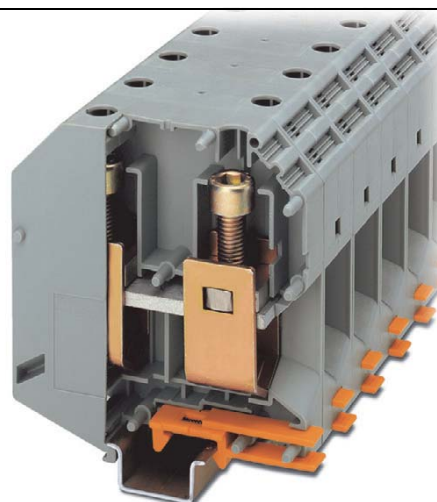
Screw Connection Disconnect and Component Terminal Blocks

Catalog Number	Width	Length	Cover Width	Height for—		
				35 x 7.5 in	35 x 15 in	32 in
XBUT4TG	0.24 (6.2)	2.24 (56.8)	—	1.87 (47.5)	2.17 (55.0)	—
XBUT4MT	0.24 (6.2)	2.24 (56.8)	—	1.87 (47.5)	2.17 (55.0)	—
XBUKK4D10	0.24 (6.2)	2.20 (56.0)	0.10 (2.5)	2.44 (62.0)	2.74 (69.5)	2.64 (67.0)
XBTK	0.20 (5.2)	1.81 (46.0)	0.04 (1.0)	1.57 (40.0)	1.87 (47.5)	1.77 (45.0)

Notes

^① For ordering information, see **Page V7-T8-101**.^② For information on Printed Marking Tag Options, see **Page V7-T8-97**.For additional accessories, see **Page V7-T8-90**.

High Current Blocks



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High Current Blocks

Product Description

Eaton's XBUK high current terminal blocks offer a reliable connection via the superior construction that includes three-point centering of the wire in the

prism-shaped sleeve base, a fluted contact surface for low contact resistance, and screws secured with spring-loaded elements. The terminal blocks have

an enclosed housing made from polyamide 6.6. Green-yellow ground terminal blocks are also available.

Product Selection

XBUK150



Screw Connection High Current Blocks

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	EN 50 019 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
20.0 mm	1/0/50 mm ²	1000/150/1/0	750/135/1/0	600/150/1/0	Gray	10	XBUK50
					Blue	10	XBUK50BU
31.0 mm	300 kcmil/150 mm ²	1000/309/2–300	726/265/2–300	600/285/2 AWG–300 kcmil	Gray	10	XBUK150

XBUK95PE



Screw Connection High Current Ground Blocks

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	EN 50 019 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
25.0 mm	000 AWG/95 mm ²	—/232/4–000	—/—/4–000	—/—/2–4/0	Green/Yellow	10	XBUK95PE

8.1

Terminal Blocks, Fuse Blocks and Fuse Holders

IEC—XB Series

Accessories

Screw Connection High Current Blocks

Description	Color	Number of Positions	Standard Pack	XBUK50 Catalog Number	XBUK150 Catalog Number	XBUK95PE Catalog Number
Fixed bridge, screw heads with insulating color	—	2	10	XBAFBI220	—	—
Insertion bridge	—	2	10	—	XBAEB231	—
Blank marker strip external labeling (strip of 10)	White	—	10	XBMZB10 ①	XBMZB10 ①	XBMZB10 ①

Technical Data and Specifications

Screw Connection High Current Blocks

8

Description	XBUK50	XBUK150	XBUK95PE
Technical Data in Accordance with IEC			
Maximum load current in A/cross-section in mm ²	150/50	309/150	232/95
Maximum cross-section with insertion bridge solid/stranded in mm ²	—/—	150/120	—/—
Rated surge voltage in kV/contamination class	8/3	8/3	8/3
Surge voltage category/insulating material group	III/I	III/I	III/I
Connection Capacity			
Stranded with ferrule/with ferrule and plastic sleeve in mm ²	25–50/25–50	50–150/50–150	35–95/35–95
Multi-Conductor Connection (same cross-section)			
Solid/stranded in mm ²	10–16/10–16	25–50/35–50	25–35/25–35
Stranded with ferrules without plastic sleeve in mm ²	10–16	25–50	16–35
Stripping length in inches (mm)	0.94 (24)	1.57 (40)	1.18 (30)
Thread	M6	M10	M8
Terminal point—thread/torque in in-lb (Nm)	53–71 (6–8)	221–267 (25–30)	133–177 (15–20)
Fastening—thread/torque in in-lb (Nm)	53–71 (6–8)	221–267 (25–30)	133–177 (15–20)

Dimensions

Approximate Dimensions in Inches (mm)

Screw Connection High Current Blocks

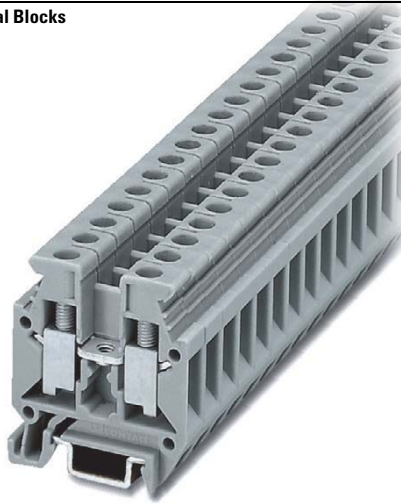
Catalog Number	Width	Length	Height for—		
			35 x 7.5 in	35 x 15 in	32 in
XBUK50	0.79 (20.0)	2.78 (70.5)	3.29 (83.5)	3.21 (81.5)	—
XBUK150	1.22 (31.0)	3.94 (100.0)	4.67 (118.5)	4.57 (116.0)	—
XBUK95PE	0.98 (25.0)	3.27 (83.0)	—	3.90 (99.0)	3.80 (96.5)

Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

For additional accessories, see **Page V7-T8-90**.

Mini Screw Connection Terminal Blocks



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Mini Screw Connection

Product Description

The **XB** miniature terminal blocks have a connection cross-section from 2 mm² through 4 mm² and mount on 15 mm DIN rail. There is an

opening for bridging with a fixed bridge in the center of the terminal blocks. These miniature terminal blocks also offer the same accessories

that you would find with the larger blocks—including marking tags, end covers, end stop and ground blocks.

Product Selection

XBMUK4



Mini Screw Connection Terminal Blocks

Terminal Width	Maximum Wire Size	IEC 60 947-7-1 in V/A/AWG	EN 50 019 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	400/32/24–12	275/28/21/24–12	600/20/28–12	Gray	50	XBMUK25
					Blue	50	XBMUK25BU
6.2 mm	10 AWG/4 mm ²	500/41/24–10	—/—/—	600/10/26–10	Gray	50	XBMUK4
					Blue	50	XBMUK4BU

XBMUK25PE



Mini Screw Connection Ground Blocks

Terminal Width	Maximum Wire Size	IEC 60 947-7-2 in V/A/AWG	UL-cUL Ratings in V/A/AWG	Color	Standard Pack	Catalog Number
5.2 mm	12 AWG/2.5 mm ²	—/—/24–12	—/—/30–12	Green/ Yellow	50	XBMUK25PE
6.2 mm	10 AWG/2.4 mm ²	—/—/24–10	—/—/26–14	Green/ Yellow	50	XBMUK4PE

Accessories

Mini Screw Connection Terminal/Ground Blocks

Description	Color	Number of Positions	Standard Pack	XBMUK25 Catalog Number	XBMUK4 Catalog Number	XBMUK25PE Catalog Number	XBMUK4PE Catalog Number
End cover	Gray	—	50	XBACMU254	XBACMU254	—	—
	Blue	—	50	XBACMU254B	XBACMU254B	—	—
Partition plate	—	—	50	XBATMU254	XBATMU254	—	—
Fixed bridge	—	10	10	XBAFBR105N	—	—	—
Separating plate	—	—	10	XBATMPKK15	XBATMPKK15	—	—
Blank marker strip (strip of 10)	White	—	10	XBMZB5 ①	XBMZB6 ①	XBMZB5 ①	XBMZB6 ①

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Technical Data and Specifications

Mini Spring Cage Terminal/Ground Blocks

Description	XBMUK25	XBMUK4	XBMUK25PE	XBMUK4PE
Technical Data in Accordance with IEC				
Maximum load current in A/cross-section in mm ²	32/4	41/6	—	—
Maximum cross-section with insertion bridge (solid/stranded)	2.5/2.5	4/4	—	—
Rated surge voltage in kV/contamination class	6/3	6/3	6/3	6/3
Surge voltage category/insulating material group	III/1	III/1	III/1	III/1
Connection Cross-Section				
Stranded with ferrule with plastic sleeve in mm ²	0.25–1.5	0.25–2.5	0.25–1.5	0.25–2.5
Stranded with ferrule without plastic sleeve in mm ²	0.25–2.5	0.25–4	0.25–2.5	0.25–4
Multi-Conductor Connection (same cross-section)				
Solid/stranded in mm ²	0.2–1.0/0.2–1.5	0.2–1.5/0.2–1.5	0.2–1.0/0.2–1.5	0.2–1.5/0.2–1.5
Stranded with ferrule without plastic sleeve in mm ²	0.25–1.5	0.25–1.5	0.25–1.5	0.25–1.5
Stranded with ferrule with plastic sleeve in mm ²	0.5–1.0	0.5–2.5	0.5–1.5	0.5–2.5
Stripping length in Inches (mm)	0.31 (8)	0.31 (8)	0.31 (8)	0.31 (8)
Thread	M3	M3	M3	M3
Torque in in-lb (Nm)	5.3–7.1 (0.6–0.8)	4.4–5.3 (0.5–0.6)	5.3–7.1 (0.6–0.8)	5.3–7.1 (0.6–0.8)

Dimensions

Approximate Dimensions in Inches (mm)

Mini Spring Cage Terminal/Ground Blocks

Catalog Number	Width	Length	Cover Length	Height for— 15 in
XBMUK25	0.20 (5.2)	1.10 (28.0)	0.04 (1.0)	1.26 (32.0)
XBMUK4	0.24 (6.2)	1.10 (28.0)	0.04 (1.0)	1.26 (32.0)
XBMUK25PE	0.20 (5.2)	1.10 (28.0)	—	1.24 (31.5)
XBMUK4PE	0.24 (6.2)	1.10 (28.0)	—	1.26 (32.0)

Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.For additional accessories, see **Page V7-T8-90**.

Spring Cage Connection



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Spring Cage Terminal Blocks Overview

Product Description

The XBPT Series incorporates a spring cage connection system proven in applications that are sensitive to vibration. The spring mechanism always exerts the same constant force on the wire, resulting in a vibration-proof, gas-tight connection, independent of the user. The space-saving front connection, with the wire and screwdriver coming in parallel from the same direction, allows for simple wiring in places where there is little space available.

Application Description

The connection point is opened with a standard screwdriver. After the wire has been inserted into the wire guide of the terminal block, the screwdriver is removed and the wire automatically makes contact.

Features

- Vibration-resistance
- Global acceptance
- Multi-conductor connections
- Flexible Plug-in bridge system
- Large surface area for marking
- Standardized testing system

Standards and Certifications

- UL recognized—File No. E67464
- CE approved
- LVD ①:
 - EN 60947-7-1
 - EN 60947-7-2
 - EN 60998-2-3
 - EN 60352-4/A1



Note

① Not all standards apply to all terminal blocks. Contact Eaton for details.