

XB Series IEC Terminal Blocks

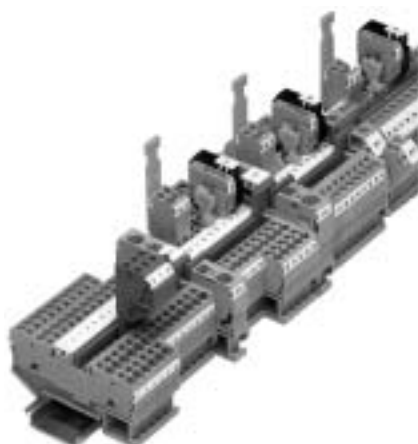
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Note: Supplement to Publication No. CA08102001E — Tab 55.



XB Series IEC Terminal Blocks



XB Series IEC Terminal Blocks

Product Family Overview

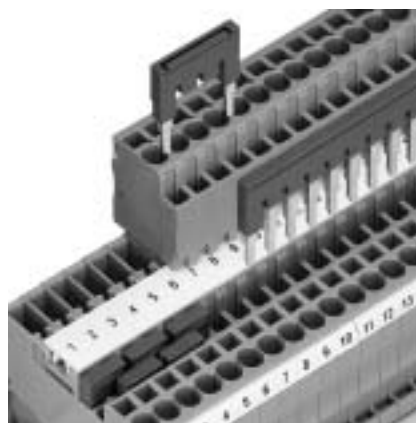
The **XB** Series from Eaton's electrical business offers a complete terminal block system with a universal range of accessories. Marking, bridging and testing accessories are standardized across the different clamping technologies — reducing inventory and logistics costs. The modular terminal block 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 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 world-wide standards and meet the latest international requirements.



Plug-In Bridges

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.



Marking Area

Large surface area for marking — All **XB** Series terminal blocks have generously sized surface areas for labeling. This allows for clearly labeled wiring which results in reduced start-up 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.



Testing System

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.

Technical Data and Specifications

- Insulation material — Polyamide 6.6
- Dielectric strength — 600 kV/cm
- Creep resistance — 600 CTI
- Internal insulation resistance — $10^{12} \Omega \text{ cm}$
- Surface resistance — $10^{10} \Omega$
- Flammability rating — UL 94 V0
- Continuous operating temperature — $-40^{\circ} - 257^{\circ}\text{F}$ ($-40^{\circ} - 125^{\circ}\text{C}$)

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
- ATEX approval (EEx e applications)

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

Modular Terminal Blocks for Potentially Explosive Environments



The standard modular terminal blocks from Eaton are approved for potentially explosive environments. In addition to the usual approvals, they also have been approved by a testing center authorized by the EU. No extra approval is required in Intrinsic Safety type applications.

Modular terminal blocks on the internet address listed below fulfill the requirements for "Increased Safety" protection type when installation instructions are followed, and have a type examination certificate in accordance with the Ex directive Ex-RL 94/9/EU.

These test certificates are recognized in all the EU member states and beyond.

The modular terminal blocks are approved for fitting in Zone 1, the Ex environment, as well as Zone 2. Zone 1 fitting is conditional upon terminal blocks being used in connection boxes approved for EEx e type protection and having the equivalent of at least IP54 protection.

The EEx approved modular terminal blocks can be divided into the following groups:

- Screw connection terminal blocks
- Spring-cage connection terminal blocks
- Insulation Displacement Connection terminal blocks
- Mini terminal blocks
- Terminal blocks for specialized applications

More detailed information on modular terminal blocks in the EEx e area is available on the internet at www.eaton.com for downloading.

Here you will find the following:

- Technical data in accordance with EN 50 019
- Approved accessories
- Important installation instructions and mounting diagrams
- EU type examination certificates
- General information on Ex protection

Identification

Explosion protected electrical equipment must be marked so that the safety characteristics are identifiable. The identification of electrical equipment is described in the harmonized standard EN 50014, as shown in the following example:

Table 1. EN 50014 Standard Example

Manufacturer or Trademark	Eaton
Type Designation	XBUT25
Abbreviation of Explosion Protection	EEx e II
Protection Type Increased Safety "e"	e
Equipment Group	II
Mark of the Testing Body	KEMA
Approval Number	05ATEX2158 U

Identification in Accordance with ATEX-RL

Electrical equipment that is certified in accordance with the ATEX 100a guideline also receives identification describing the site for use.

Table 2. ATEX Guideline Example

Manufacturing Data	02.01.2004
Address of the Manufacturer	Duncan, SC
Number of the Appointed Dept.	344
Common Marking	Ex symbol
Equipment Group	II
Category	2
Use in Gas and/or Dust Atmospheres	G D

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*Screw Connection
Terminal Blocks*

Product Description

The XBUT Series utilizes 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. 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
- ATEX approval (Eex e applications)

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



Screw Connection

Screw Connection 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, 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).



XBUT25



XBUT4

Product Selection

Table 3. Screw Connection Single Level — Through-Feed Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 800 / 32 / 26-12 750 / 22/28 / 26-12 600 / 20 / 26-12			6.2 mm 10 AWG / 4 mm ² 800 / 41 / 26-10 750 / 30/38 / 26-10 600 / 30 / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection Single Level — Through-Feed	Gray	—	XBUT25	1.10	50	XBUT4	1.15	50
	Blue	—	XBUT25BU	1.10	50	XBUT4BU	1.15	50
	Orange	—	—	—	—	XBUT4OR	1.15	50
	Yellow	—	—	—	—	XBUT4YE	1.15	50
	Red	—	—	—	—	XBUT4RD	1.15	50
	White	—	—	—	—	XBUT4WH	1.15	50
	Black	—	—	—	—	XBUT4BK	1.15	50
	Green	—	—	—	—	XBUT4GN	1.15	50
Accessories								
End Cover	Gray	—	XBACUT10	0.52	10	XBACUT10	0.52	10
Partition Plate	Gray	—	XBATUT10	0.67	10	XBATUT10	0.67	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)	0.20 (5.2) / 1.85 (46.9) / 0.09 (2.2)	0.24 (6.2) / 1.85 (46.9) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)	1.87 (47.5) / 2.17 (55.0)	1.87 (47.5) / 2.17 (55.0)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²	32 / 4	41 / 6
Rated Surge Voltage in kV / Contamination Class	8 / 3	8 / 3
Surge Voltage Category / Insulating Material Group	III / II	III / I
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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 – 1.5 / 0.14 – 1.5	0.14 – 1.5 / 0.14 – 1.5
Stranded with Ferrules w/o Plastic Sleeve in mm ²	0.25 – 1.5	0.25 – 1.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.5 – 1.5	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)

① EU type — examination certificate number: KEMA 05ATEX2158 U.

② For ordering information, see Table 70 on Page 85.

③ For information on Printed Marking Tag Options, see Page 80.

Single Level — Through-Feed



XBUT6



XBUT10

Table 3. Screw Connection Single Level — Through-Feed Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			8.2 mm 8 AWG / 6 mm ² 800 / 57 / 24-8 750 / 40/50 / 24-8 600 / 50 / 24-8			10.2 mm 6 AWG / 10 mm ² 1000 / 76 / 20-6 750 / 54/69 / 20-6 600 / 65 / 20-6		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Single Level — Through-Feed	Gray	—	XBUT6	1.60	50	XBUT10	2.10	50
	Blue	—	XBUT6BU	1.60	50	XBUT10BU	2.10	50
	Orange	—	—	—	—	XBUT10OR	2.35	50
	Red	—	—	—	—	XBUT10RD	2.35	50
	Yellow	—	—	—	—	XBUT10YE	2.35	50

Accessories

End Cover	Gray	—	XBACUT10	0.52	10	XBACUT10	0.52	10
Partition Plate	Gray	—	XBATUT10	0.67	10	XBATUT10	0.67	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS28	0.62	10	XBAFBS210	1.65	10
Reducing Bridge — for connection from XBUT10 to XBUT4 or XBUT25 ②	Red	—	—	—	—	XBARBUT10	3.65	10
Test Adapter			XBATSPA14	11.10	10	—	—	—
Modular Test Plug			XBATSPS8	1.10	10	—	—	—
Blank Marker Strip (strip of 10)	White	—	XBMZB8 ③	0.67	10	XBMZB10 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions					
Width / Length / Cover Width in Inches (mm)			0.32 (8.2) / 1.85 (46.9) / 0.09 (2.2)		0.40 (10.2) / 1.85 (46.9) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.87 (47.5) / 2.17 (55.0)		1.87 (47.5) / 2.17 (55.0)
Technical Data in Accordance with IEC					
Maximum Load Current in A / Cross-Section in mm ²			57 / 10		76 / 16
Rated Surge Voltage in kV / Contamination Class			8 / 3		8 / 3
Surge Voltage Category / Insulating Material Group			III / I		III / I
Connection Capacity					
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²			0.25 – 6 / 0.25 – 6		0.5 – 10 / 0.5 – 10
Multi-Conductor Connection (same cross-section)					
Solid / Stranded in mm ²			0.2 – 2.5 / 0.2 – 2.5		0.5 – 4 / 0.5 – 4
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 1.5		0.5 – 2.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 4		0.5 – 6
Stripping Length in Inches (mm)			0.39 (10)		0.39 (10)
Thread			M4		M4
Torque in in-lb (Nm)			13.3 – 15.9 (1.5 – 1.8)		13.3 – 15.9 (1.5 – 1.8)

① EU type — examination certificate number: KEMA 05ATEX2158 U.

② See Table 4 on Page 8 for more reducing bridges.

③ For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Single Level — Through-Feed



XBUT16



XBUT35

Table 3. Screw Connection Single Level — Through-Feed Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			12 mm 4 AWG / 16 mm ² 1000 / 101 / 17-4 600 / 85 / 16-4			16 mm 0 AWG / 35 mm ² 1000 / 150 / 15-0 600 / 150 / 14-1/0		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Single Level — Through-Feed	Gray Blue	—	XBUT16	4.15	50	XBUT35	5.95	50
			XBUT16BU	4.15	50	XBUT35BU	5.95	50

Accessories

End Cover	Gray	—	XBACUT16	0.73	10	①	—	—
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS212	2.00	10	XBAFBS216	2.25	10
Blank Marker Strip (strip of 10)	White	—	XBMZB12 ②	0.67	10	XBMZB15 ②	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
			XBANS3575U	12.40	25	XBANS3575U	12.40	25
			XBANS3515P	22.70	25	XBANS3515P	22.70	25
			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C	1.25	50	XBAES35C	1.25	50
			XBAES35T	0.93	50	XBAES35T	0.93	50
			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)			0.47 (12.0) / 2.08 (52.8) / 0.09 (2.2) 2.16 (54.8) / 2.45 (62.3)			0.63 (16.0) / 2.37 (60.2) / — 2.59 (65.7) / 2.88 (73.2)		
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group			101 / 25 8 / 3 III / I			150 / 50 8 / 3 III / I		
Connection Capacity Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²			1.0 – 16 / 1.0 – 16			1.5 – 35 / 1.5 – 35		
Multi-Conductor Connection (same cross-section) Solid / Stranded in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			1.0 – 6 / 1.0 – 4 1.0 – 4 0.75 – 10			1.5 – 16 / 1.5 – 10 1.5 – 10 1.5 – 10		
Stripping Length in Inches (mm)			0.39 (10)			0.63 (16)		
Thread			M5			M6		
Torque in in-lb (Nm)			22.1 – 26.6 (2.5 – 3)			28.3 – 32.7 (3.2 – 3.7)		

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 80.

Single Level — Through-Feed

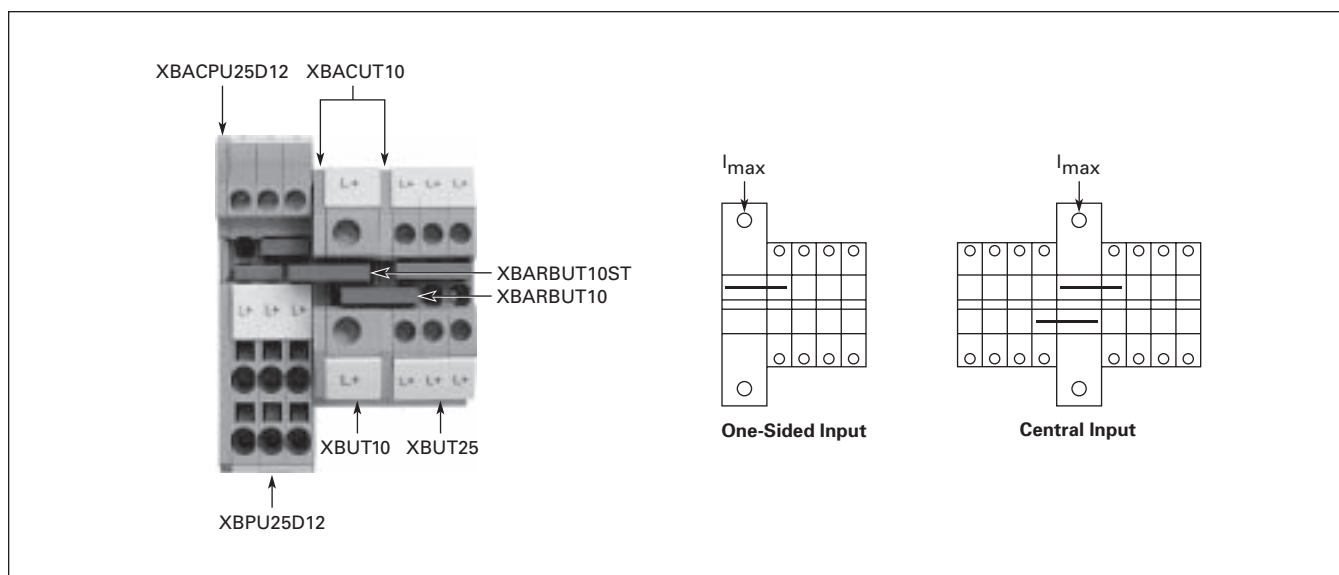


Figure 1-1. XBUT with Reducing Bridge

Table 4. Step Down Bridge with Standard Feed-Through Terminal Blocks

Input		Pick-Off		One-Sided Input	Central Input	Bridge	
Terminal Block	Cross-Section	Terminal Block	Cross-Section AWG (mm ²)	I_{max}	I_{max}	Catalog Number	Price U. S. \$
XBUT10	6 AWG (10 mm ²)	XBUT25	12 (2.5)	40	65	XBARBUT10	3.65
		XBUT4	10 (4)	45	65	XBARBUT10ST	3.65
		XBPT25	12 (2.5)	40	65		
		XBPT4	10 (4)	45	65		
		XBQT15	14 (1.5)	35	65		
		XBQT25	12 (2.5)	40	65		
XBUT16	4 AWG (16 mm ²)	XBUT25	12 (2.5)	40	80	XBARBUT16	2.70
		XBUT4	10 (4)	45	90	XBARBUT16ST	2.70
		XBPT25	12 (2.5)	40	80		
		XBPT4	10 (4)	45	90		
		XBQT15	14 (1.5)	35	70		
		XBQT25	12 (2.5)	40	80		

Single Level — Ground Block

Screw Connection Single Level — Ground Block

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 which meets all requirements of IEC 60-947-7-2.



XBUT25PE



XBUT4PE

Product Selection

Table 5. Screw Connection Single Level — Ground Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 26-12 — / — / 26-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm ² — / — / 26-10 — / — / 26-10 — / — / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Single Level Ground Block	Green/Yellow	—	XBUT25PE	4.40	50	XBUT4PE	4.90	50
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Accessories

End Cover	Gray	—	XBACUT10	0.52	10	XBACUT10	0.52	10
Partition Plate			XBATUT10	0.67	10	XBATUT10	0.67	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 1.85 (46.9) / 0.09 (2.2) 1.87 (47.5) / 2.17 (55.0)	0.24 (6.2) / 1.85 (46.9) / 0.09 (2.2) 1.87 (47.5) / 2.17 (55.0)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	— 8 / 3 III / II	— 8 / 3 III / I
Connection Capacity Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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 Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 0.5 – 1.5	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 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)

① EU type — examination certificate number: KEMA 05ATEX2158 U.

② For ordering information, see Table 70 on Page 85.

③ For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Single Level — Ground Block



XBUT6PE



XBUT10PE

Table 5. Screw Connection Single Level — Ground Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			8.2 mm 8 AWG / 6 mm ² — / — / 24-8 — / — / 24-8 — / — / 24-8			10.2 mm 6 AWG / 10 mm ² — / 76 / 20-6 — / 54/69 / 20-6 — / — / 20-6		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Single Level Ground Block	Green/ Yellow	—	XBUT6PE	5.00	50	XBUT10PE	5.15	50
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Accessories

End Cover	Gray	—	XBACUT10	0.52	10	XBACUT10	0.52	10
Partition Plate			XBATUT10	0.67	10	XBATUT10	0.67	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS28	0.62	10	XBAFBS210	1.65	10
Test Adapter			XBATSPA14	11.10	10	—	—	—
Modular Test Plug			XBATSPS8	1.10	10	—	—	—
Blank Marker Strip (strip of 10)	White	—	XBMZB8 ②	0.67	10	XBMZB10 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions					
Width / Length / Cover Width in Inches (mm)			0.32 (8.2) / 1.85 (46.9) / 0.09 (2.2)		0.40 (10.2) / 1.85 (46.9) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.87 (47.5) / 2.17 (55.0)		1.87 (47.5) / 2.17 (55.0)
Technical Data in Accordance with IEC					
Maximum Load Current in A / Cross-Section in mm ²			—		76 / 16
Rated Surge Voltage in kV / Contamination Class			8 / 3		8 / 3
Surge Voltage Category / Insulating Material Group			III / I		III / I
Connection Capacity					
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²			0.25 – 6 / 0.25 – 6		0.5 – 10 / 0.5 – 10
Multi-Conductor Connection (same cross-section)					
Solid / Stranded in mm ²			0.2 – 2.5 / 0.2 – 2.5		0.5 – 4 / 0.5 – 4
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 1.5		0.5 – 2.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 4		0.5 – 6
Stripping Length in Inches (mm)			0.39 (10)		0.39 (10)
Thread			M4		M4
Torque in in-lb (Nm)			13.3 – 15.9 (1.5 – 1.8)		13.3 – 15.9 (1.5 – 1.8)

① EU type — examination certificate number: KEMA 05ATEX2158 U.

 ② For information on Printed Marking Tag Options, see **Page 80**.

 Discount Symbol **1CD1**

Single Level — Ground Block



XBUT16PE



XBUT35PE

Table 5. Screw Connection Single Level — Ground Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			12 mm 4 AWG / 16 mm ² — / 101 / 15-4 — / — / 16-4			16 mm 2 AWG / 35 mm ² — / 125 / 15-2 — / — / 14-1/0		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Single Level Ground Block	Green/ Yellow	—	XBUT16PE	6.20	50	XBUT35PE	9.80	50
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Accessories

End Cover	Gray	—	XBACUT16	0.73	10	①	—	—
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS212	2.00	10	XBAFBS212	2.00	10
Blank Marker Strip (strip of 10)	White	—	XBMZB12 ②	0.67	10	XBMZB15 ②	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.47 (12.0) / 2.08 (52.8) / 0.09 (2.2) 2.16 (54.8) / 2.45 (62.3)	0.63 (16.0) / 2.37 (60.2) / — 2.59 (65.7) / 2.88 (73.2)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	101 / 25 8 / 3 III / I	125 / 50 8 / 3 III / I
Connection Capacity Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	1.0 – 16 / 1.0 – 16	1.5 – 35 / 1.5 – 35
Multi-Conductor Connection (same cross-section) Solid / Stranded in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	1.0 – 6 / 1.0 – 4 1.0 – 4 0.75 – 10	1.5 – 16 / 1.5 – 10 1.5 – 10 1.5 – 10
Stripping Length in Inches (mm)	0.39 (10)	0.63 (16)
Thread	M5	M6
Torque in in-lb (Nm)	22.1 – 26.6 (2.5 – 3)	28.3 – 32.7 (3.2 – 3.7)

① XBUT35PE has an enclosed design. The use of an end cover is not required.

② For information on Printed Marking Tag Options, see Page 80.

Multi-Conductor Terminal Block

Screw Connection Multi-Conductor Terminal Block

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.



XBUT25D12



XBUT4D12

Product Selection

Table 6. Screw Connection Multi-Conductor Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 500 / 28 / 26-12 150 / 20 / 26-12			6.2 mm 10 AWG / 4 mm ² 500 / 39 / 26-10 150 / 30 / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection Multi-Conductor	Gray	—	XBUT25D12	2.50	50	XBUT4D12	2.75	50
	Blue	—	XBUT25D12BU	2.50	50	XBUT4D12BU	2.75	50
Accessories								
End Cover	Gray	—	XBACUT4D12	0.67	10	XBACUT4D12	0.67	10
End Cover Segment	Gray	—	XBASUT4	0.42	10	XBASUT4	0.42	10
Partition Plate			XBATUTD12	0.78	10	XBATUTD12	0.78	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPAI4	11.10	10	XBATSPAI4	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^①	^①	—	XBATSMPS- ^①	^①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip (strip of 10)	White	—	XBMZB5 ^②	0.67	10	XBMZB6 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions				
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 2.24 (56.8) / 0.09 (2.2)	0.24 (6.2) / 2.24 (56.8) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.87 (47.5) / 2.17 (55.0)	1.87 (47.5) / 2.17 (55.0)
Technical Data in Accordance with IEC				
Maximum Load Current in A / Cross-Section in mm ²			28 / 4	39 / 6
Rated Surge Voltage in kV / Contamination Class			6 / 3	6 / 3
Surge Voltage Category / Insulating Material Group			III / I	III / I
Connection Capacity				
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²			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
Stranded with Ferrule w/o Plastic Sleeve in mm ²			0.25 – 1.0	0.25 – 1.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 1.0	0.5 – 1.0
Stripping Length in Inches (mm)			0.31 (8)	0.31 (8)
Thread			M3	M3
Torque in in-lb (Nm)			5.3 – 7.1 (0.6 – 0.8)	5.3 – 7.1 (0.6 – 0.8)

^① For ordering information, see **Table 70** on **Page 85**.

^② For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Multi-Conductor Terminal Block



XBUT25D22



XBUT4D22

Table 6. Screw Connection Multi-Conductor Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 500 / 28 / 26-12 150 / 20 / 26-12			6.2 mm 10 AWG / 4 mm ² 500 / 39 / 26-10 150 / 30 / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Multi-Conductor	Gray Blue	— —	XBUT25D22	3.25	50	XBUT4D22	2.95	50
			XBUT25D22BU	3.25	50	XBUT4D22BU	2.95	50

Accessories

End Cover	Gray	—	XBACUT4D22	0.78	10	XBACUT4D22	0.78	10
End Cover Segment	Gray	—	XBASUT4	0.42	10	XBASUT4	0.42	10
Partition Plate			XBATUTD22	0.93	10	XBATUTD22	0.93	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	—	—
2.3 mm Dia. Test Plug			XBATSMPS- ^①	①	—	XBATSMPS- ^①	①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	—	—
Blank Marker Strip (strip of 10)	White	—	XBMZB5 ^②	0.67	10	XBMZB6 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)	0.20 (5.2) / 2.52 (64.1) / 0.09 (2.2)	0.24 (6.2) / 2.52 (64.1) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)	1.87 (47.5) / 2.17 (55.0)	1.87 (47.5) / 2.17 (55.0)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²	28 / 4	39 / 6
Rated Surge Voltage in kV / Contamination Class	6 / 3	6 / 3
Surge Voltage Category / Insulating Material Group	III / I	III / I
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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 / 0.14 – 1.5
Stranded with Ferrule w/o Plastic Sleeve in mm ²	0.25 – 1.0	0.25 – 1.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.5 – 1.0	0.5 – 1.0
Stripping Length in Inches (mm)	0.31 (8)	0.31 (8)
Thread	M3	M3
Torque in in-lb (Nm)	5.3 – 7.1 (0.6 – 0.8)	5.3 – 7.1 (0.6 – 0.8)

① For ordering information, see Table 70 on Page 85.

② For information on Printed Marking Tag Options, see Page 80.

Multi-Connector Ground Block
Screw Connection Multi-Connector Ground Block
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 which meets all requirements of IEC 60-947-7-2.



XBUT25D12PE



XBUT4D12PE

Product Selection
Table 7. Screw Connection Multi-Conductor Ground Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 26-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm ² — / — / 26-10 — / — / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection Multi-Conductor Ground Block	Green/Yellow	—	XBUT25D12PE	4.65	50	XBUT4D12PE	5.05	50
Accessories								
End Cover	Gray	—	XBACUT4D12	0.67	10	XBACUT4D12	0.67	10
End Cover Segment	Gray	—	XBASUT4	0.42	10	XBASUT4	0.42	10
Partition Plate			XBATUTD12	0.78	10	XBATUTD12	0.78	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^①	^①	—	XBATSMPS- ^①	^①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip (strip of 10)	White	—	XBMZB5 ^②	0.67	10	XBMZB6 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)	0.20 (5.2) / 2.24 (56.8) / 0.09 (2.2)	0.20 (5.2) / 2.24 (56.8) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)	1.87 (47.5) / 2.17 (55.0)	1.87 (47.5) / 2.17 (55.0)
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
Surge Voltage Category / Insulating Material Group	III / I	III / I
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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
Stranded with Ferrule w/o Plastic Sleeve in mm ²	0.25 – 1.0	0.25 – 1.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.5 – 1.0	0.5 – 1.0
Stripping Length in Inches (mm)	0.31 (8)	0.31 (8)
Thread	M3	M3
Torque in in-lb (Nm)	5.3 – 7.1 (0.6 – 0.8)	5.3 – 7.1 (0.6 – 0.8)

^① For ordering information, see **Table 70** on **Page 85**.

^② For information on Printed Marking Tag Options, see **Page 80**.

Multi-Connector Ground Block



XBUT25D22PE



XBUT4D22PE

Table 7. Screw Connection Multi-Conductor Ground Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 12 AWG / 2.5 mm ² — / — / 26-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm ² — / — / 26-10 — / — / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Multi-Conductor Ground Block	Green/ Yellow	—	XBUT25D22PE	5.95	50	XBUT4D22PE	5.55	50
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Accessories

End Cover	Gray	—	XBACUT4D22	0.78	10	XBACUT4D22	0.78	10
End Cover Segment	Gray	—	XBASUT4	0.42	10	XBASUT4	0.42	10
Partition Plate			XBATUTD12	0.78	10	XBATUTD12	0.78	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
			XBAFBS35	0.99	10	XBAFBS36	0.99	10
			XBAFBS55	1.95	10	XBAFBS56	1.95	10
			XBAFBS105	4.05	10	XBAFBS106	4.05	10
			XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^①	^①	—	XBATSMPS- ^①	^①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip (strip of 10)	White	—	XBMZB5 ^②	0.67	10	XBMZB6 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)	0.20 (5.2) / 2.52 (64.1) / 0.09 (2.2)	0.24 (6.2) / 2.52 (64.1) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)	1.87 (47.5) / 2.17 (55.0)	1.87 (47.5) / 2.17 (55.0)
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
Surge Voltage Category / Insulating Material Group	III / I	III / I
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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
Stranded with Ferrule w/o Plastic Sleeve in mm ²	0.25 – 1.0	0.25 – 1.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.5 – 1	0.5 – 1
Stripping Length in Inches (mm)	0.31 (8)	0.31 (8)
Thread	M3	M3
Torque in in-lb (Nm)	5.3 – 7.1 (0.6 – 0.8)	5.3 – 7.1 (0.6 – 0.8)

① For ordering information, see Table 70 on Page 85.

② For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Double Level

Screw Connection 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.



XBUTT4



XBUTT4PE

Product Selection

Table 8. Screw Connection Double Level Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 10 AWG / 4 mm ² 800 / 36 / 26-10 300 / 30 / 26-10			6.2 mm 10 AWG / 4 mm ² — / — / 26-10 — / — / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection Double Level	Gray	—	XBUTT4	3.55	50	—	—	—
	Blue	—	XBUTT4BU	3.55	50	—	—	—
	Red	—	XBUTT4RD	3.95	50	—	—	—
Screw Connection Double Level — terminal block with potential distribution between the levels	Gray	—	XBUTT4PV	6.40	50	—	—	—
Screw Connection Double Level — Ground Block	Green/Yellow	—	—	—	—	XBUTT4PE	9.05	50
Accessories								
End Cover	Gray	—	XBACUTT4	0.78	10	XBACUTT4	0.78	10
Spacer Plate	Gray	—	XBDPUTT4	0.88	10	XBDPUTT4	0.88	10
Partition Plate	—	—	XBATUTT4	0.88	10	XBATUTT4	0.88	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS26	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS36	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS56	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS106	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS506	23.20	10	XBAFBS506	23.20	10
Test Adapter	—	—	XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug	—	—	XBATSMPS- ①	①	—	XBATSMPS- ①	①	—
Modular Test Plug	—	—	XBATSPS6	10.90	10	XBATSPS6	10.90	10
Blank Marker Strip (strip of 10)	White	—	XBMZB6 ②	0.67	10	XBMZB6 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions								
Width / Length / Cover Width in Inches (mm)			0.24 (6.2) / 2.75 (69.9) / 0.09 (2.2)			0.24 (6.2) / 2.75 (69.9) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			2.56 (65.0) / 2.85 (72.5)			2.56 (65.0) / 2.85 (72.5)		
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 & 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 Ferrule w/o Plastic Sleeve in mm ²			0.25 – 1.5			0.25 – 1.5		
Stranded with Twin Ferrule w/ 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)		

① For ordering information, see Table 70 on Page 85.

② For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Screw Connection Triple Level Sensor/Actuator

Product Description

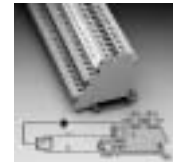
The XB3UK sensor terminal blocks reduce installation time by terminating three-wire devices such as photoelectric and proximity sensors in a single terminal block. The XB3UK Series accommodates a design where the positive and negative connections are grouped so that only the signal lines and one pair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



XB3UKA25
(Top level is feed-through)



XB3UKF25
(All 3 levels are feed-through)



Wiring for Three-Level Sensor Terminal Blocks

Product Selection

Table 9. Screw Connection Triple Level Sensor/Actuator Terminal Blocks Product Selection

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			6.2 mm 14 AWG / 2.5 mm ² 250 / 26 / 24-12 — 300 / 15 / 30-14			6.2 mm 14 AWG / 2.5 mm ² — 250 / 30 / 24-12 300 / 15 / 30-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection Triple Level	Gray Blue	—	XB3UKA25	4.40	50	XB3UKF25	6.20	50
Screw Connection Triple Level w/Red LED, 15 – 30V DC, 2.5 – 7.5A	Gray	—	XB3UKA25L24	8.25	50	—	—	—
Accessories								
Insertion Bridge	Blue	80	XBAEB80DIKB	37.75	1	XBAEB80DIKB	37.75	1
	Red	80	XBAEB80DIKR	37.75	1	XBAEB80DIKR	37.75	1
	Blue	10	XBAEB10DIKB	4.15	10	XBAEB10DIKB	4.15	10
	Red	10	XBAEB10DIKR	4.15	10	XBAEB10DIKR	4.15	10
Blank Marker Strip (strip of 10)	White	—	XBMZB6 ①	0.67	10	XBMZB6 ①	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50
Technical Data								
Dimensions								
Width / Length in Inches (mm)			0.24 (6.2) / 2.17 (55.0)			0.24 (6.2) / 2.85 (72.5)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			2.15 (54.5) / 2.44 (62.0)			2.15 (54.5) / 2.44 (62.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			26 / 2.5			30 / 4		
Maximum Cross Section with Insertion Bridge			4 / 2.5			4 / 2.5		
Solid / Stranded in mm ²								
Rated Surge Voltage in kV / Contamination Class			4 / 3			4 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²			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		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 1.0			0.25 – 1.0		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 1.0			0.5 – 1.0		
Stripping Length in Inches (mm)			0.31 (8)			0.31 (8)		
Thread			M3			M3		
Torque in in-lb (Nm)			4.4 – 5.3 (0.5 – 0.6)			4.4 – 5.3 (0.5 – 0.6)		

① For information on Printed Marking Tag Options, see Page 80.

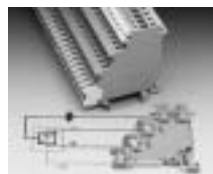
Triple Level Sensor/Actuator



XB3UKA25PE



XB3UKF25PE



Wiring for Four-Level Sensor Terminal Blocks

Table 9. Screw Connection Triple Level Sensor/Actuator Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 14 AWG / 2.5 mm ² 250 / 26 / 24-12 300 / 15 / 30-14			6.2 mm 14 AWG / 2.5 mm ² — 300 / 15 / 28-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection w/Ground Connection	Gray	—	XB3UKA25PE	7.05	50	XB3UKF25PE	8.80	50
Screw Connection w/Ground Connection and LED Indicator	Gray	—	XB3UKA25PEL24	11.40	50	—	—	—
Accessories								
Insertion Bridge	Blue	10	XBAEB10DIKB	4.15	10	XBAEB10DIKB	4.15	10
	Red	10	XBAEB10DIKR	4.15	10	XBAEB10DIKR	4.15	10
	Blue	80	XBAEB80DIKB	37.75	1	XBAEB80DIKB	37.75	1
	Red	80	XBAEB80DIKR	37.75	1	XBAEB80DIKR	37.75	1
Blank Marker Strip (strip of 10)	White	—	XBMZB6 ①	0.67	10	XBMZB6 ①	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions					
Width / Length in Inches (mm)			0.24 (6.2) / 2.46 (62.5)		0.24 (6.2) / 3.25 (82.5)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			2.76 (70.0) / 3.05 (77.5)		2.76 (70.0) / 3.05 (77.5)
Technical Data in Accordance with IEC					
Maximum Load Current in A / Cross-Section in mm ²			26 / 2.5		26 / 2.5
Maximum Cross Section with Insertion Bridge			4 / 2.5		4 / 2.5
Solid / Stranded in mm ²					
Rated Surge Voltage in kV / Contamination Class			4 / 3		6 / 3
Surge Voltage Category / Insulating Material Group			III / I		III / I
Connection Capacity					
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²			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
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 1.0		0.25 – 1.0
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 1.0		0.5 – 1.0
Stripping Length in Inches (mm)			0.31 (8)		0.31 (8)
Thread			M3		M3
Torque in in-lb (Nm)			4.4 – 5.3 (0.5 – 0.6)		4.4 – 5.3 (0.5 – 0.6)

① For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Fuse Terminal Block

Screw Connection Fuse Terminal Block

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).



XBUT4FBE



XBUT6FBN

Product Selection

Table 10. Screw Connection Fuse Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-3 in V/A / AWG UL-cUL Ratings in V/A / AWG			6.2 mm 10 AWG / 4 mm ² ① / 6.3 / 26-10 600 / 6.3 / 26-10			8.2 mm 8 AWG / 6 mm ² ④ / 10 / 24-8 400 / 10 / 24-8		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Fuse Terminal Block for 5 x 20 mm fuse	Black	—	XBUT4FBE	6.20	50	—	—	—
Fuse Terminal Block for 6.3 x 32 mm (1/4" x 1-1/4") fuse	Black	—	—	—	—	XBUT6FBN	7.75	50
Fuse Terminal Block w/LED 12 – 30V, 1 – 2.5 mA	Black	—	XBUT4FBEL24	12.40	50	XBUT6FBNL24	13.40	50
Fuse Terminal Block w/LED 30 – 60V, 0.8 – 2.0 mA	Black	—	XBUT4FBEL60	12.40	50	XBUT6FBNL60	13.40	50
Fuse Terminal Block w/LED 110 – 250V, 0.5 – 2.5 mA	Black	—	XBUT4FBEL250	12.40	50	XBUT6FBNL250	13.40	50
Accessories								
End Cover	—	—	②	—	—	②	—	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2 3 5 10 50	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10	XBAFBS28 XBAFBS38 XBAFBS58 XBAFBS108 XBAFBS508	0.62 1.25 2.40 7.95 ⑤ 10	10 10 10 10 10
Blank Marker Strip Center Labeling (strip of 10) Blank Marker Strip External Labeling (strip of 10)	White White	— —	XBMZB5 ③ XBMZB6 ③	— —	— —	XBMZB6 ③ XBMZB8 ③	— —	— —
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.24 (6.2) / 2.24 (56.8) 2.87 (73.0) / 3.17 (80.5)	0.32 (8.2) / 2.24 (56.8) 2.87 (73.0) / 3.17 (80.5)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	6.3 / 6 4 / 3 III / II	10 / 10 4 / 3 III / I
Connection Capacity Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	0.25 – 4 / 0.25 – 4	0.25 – 6 / 0.25 – 6
Multi-Conductor Connection (same cross-section) Solid / Stranded in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 0.5 – 2.5	— — 0.5 – 4
Stripping Length in Inches (mm)	0.35 (9)	0.39 (10)
Thread	M3	M4
Torque in in-lb (Nm)	5.3 – 7.1 (0.6 – 0.8)	13.3 – 15.9 (1.5 – 1.8)

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

② XBUT4FBE and XBUT6FBN have an enclosed design. The use of an end cover is not required.

③ For information on Printed Marking Tag Options, see **Page 80**.

④ As disconnect terminal block 500V, as fuse terminal block 400V.

⑤ Consult factory for pricing.

Note: Max. power dissipation at 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.

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

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

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

Fuse Terminal Block



XBUK10FBCE

Table 10. Screw Connection Fuse Terminal Blocks Product Selection (Continued)

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			12 mm 6 AWG / 16 mm ² ① / ① / 20-4 800 / 10 / 20-6 300 / 20 / 22-6		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Fuse Terminal Block for 5 x 20 mm fuse	Black	—	XBUK10FBCE	10.10	50
Fuse Terminal Block for 6.3 x 32 mm (1/4" x 1-1/4") fuse	Black	—	XBUK10FBCN	10.10	50
Fuse Terminal Block with light indicator 15 – 30V, 1 – 2.5 mA, 5 x 20 mm	Black	—	XBUK10FBCEL24	16.30	50
Fuse Terminal Block with light indicator 15 – 30V, 1 – 2.5 mA, 6.3 x 32 mm	Black	—	XBUK10FBCNL24	16.30	50
Fuse Terminal Block with light indicator 110 – 250V, 0.5 – 1.1A, 5 x 20 mm	Black	—	XBUK10FBCEL250	16.30	50
Fuse Terminal Block with light indicator 110 – 250V, 0.5 – 1.1A, 6.3 x 32 mm	Black	—	XBUK10FBCNL250	16.30	50

Accessories

Fixed Bridge	—	2	XBAFBI212	2.40	10
Screw Heads with Insulating Collar	—	10	XBAFBI1012	9.80	10
Blank Marker Strip (strip of 10)	White	—	XBMZB6 ②	0.67	10
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25
End Stop					
One-Screw Mounted			XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length in Inches (mm)		0.47 (12.0) / 2.44 (62.0)
Height for 35 x 7.5 / 35 x 15 / 32 in Inches (mm)		2.32 (59.0) / 2.62 (66.5) / 2.52 (64.0)
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 w/ Bridge Solid / Stranded in mm ²		10 / 10
Rated Surge Voltage in kV / Contamination Class		4 / 3
Surge Voltage Category / Insulating Material Group		III / I
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²		0.5 – 10 / 0.5 – 10
Multi-Conductor Connection (same cross-section)		
Solid / Stranded in mm ²		0.5 – 4 / 0.5 – 4
Stranded with Ferrules w/o Plastic Sleeve in mm ²		0.5 – 4
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²		0.5 – 10
Stripping Length in Inches (mm)		0.43 (11)
Thread		M4
Torque in in-lb (Nm)		13.3 – 15.9 (1.5 – 1.8)

① The current is determined by the fuse used, the voltage by the selected light indicator.

② For information on Printed Marking Tag Options, see **Page 80**.

Screw Connection Disconnect and Component Terminal Blocks

Product Description

The **XB** Series includes application specific terminal blocks like the XBUT4TG disconnect block which 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.

XBUT4TG
DisconnectXBUT4MT
Knife Disconnect

Product Selection

Table 11. Screw Connection Disconnect and Component Terminal Blocks Product Selection

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 w/Test Sockets in V / A / AWG			6.2 mm 10 AWG / 4 mm ² 500 / 16 / 26-10 600 / 16 / 26-10 300 / 16 / 26-10			6.2 mm 10 AWG / 4 mm ² 500 / 16 / 26-10 600 / 16 / 26-10 300 / 16 / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection Disconnect	Gray	—	XBUT4TG	3.10	50	XBUT4MT	4.15	50
Screw Connection Disconnect with test sockets	Gray	—	XBUT4TGP	3.25	50	XBUT4MTP	4.70	50
Component Plug	Gray	—	XBPCO	3.65	10	—	—	—
Fuse Plug	Black	—	XBPFU	3.65	10	—	—	—
Fuse Plug with light indicator for 12 – 30V, 1 – 2.5 mA	Black	—	XBPFUL24	10.30	10	—	—	—
Fuse Plug with light indicator for 110 – 250V, 0.5 – 2.5 mA	Black	—	XBPFUL250	10.30	10	—	—	—
Accessories								
Plug-In Bridge — for cross connections in the bridge shaft	Red	2 3 5 10 50	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10
Test Adapter			XBATSPAI4	11.10	10	XBATSPAI4	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ①	①	—	XBATSMPS- ①	①	—
Modular Test Plug			XBATSDPPS6	0.98	10	XBATSDPPS6	0.98	10
Blank Marker Strip (strip of 10)	White	—	XBMBZB6 ②	0.67	10	XBMBZB6 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50
Technical Data								
Dimensions								
Width / Length in Inches (mm)			0.24 (6.2) / 2.24 (56.8)			0.24 (6.2) / 2.24 (56.8)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.87 (47.5) / 2.17 (55.0)			1.87 (47.5) / 2.17 (55.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			16 / 6			16 / 6		
Rated Surge Voltage in kV / Contamination Class			6 / 3			6 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule / with Ferrule & 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 w/o Plastic Sleeve in mm ²			0.25 – 1.5			0.25 – 1.5		
Stranded with Twin Ferrule w/ 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)		

① For ordering information, see Table 70 on Page 85.

② For information on Printed Marking Tag Options, see Page 80.

Disconnect and Component Terminal Blocks



XBUEK4DIO
with Integrated Diodes



XBTKT25
Thermal Electric Voltage

Table 11. Screw Connection Disconnect and Component Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 12 AWG / 4 mm ² 500 / 32 / 24-10 600 / 30 / 26-10			10.4 mm 12 AWG / 2.5 mm ² 400 / — / 24-12 300 / 10 / 28-12		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection Terminal Block with integrated diodes	Gray	—	XBUEK4DIO	7.20	50	—	—	—
Screw Connection Thermoelectric Voltage Terminal Block								
Copper/Constantan (CU/CUNI44)	Gray	—	—	—	—	XBTKT25 (Type T)	10.90	50
Iron/Constantan (FE/CUNI44)	Gray	—	—	—	—	XBTKJ25 (Type J)	10.90	50
Nickel-Chrome/Constantan (NICR/CUNI44)	Gray	—	—	—	—	XBTK25 (Type E)	10.90	50
Nickel-Chrome/Nickel (NICRNI)	Gray	—	—	—	—	XBTKK25 (Type K)	10.90	50
Copper/Copper Nickel (E-CU/A-CU)	Gray	—	—	—	—	XBTKR25 (Type R)	10.90	50

Accessories

End Cover	Gray	—	XBACUUK35	1.40	10	XBACTK4	0.84	10
Spacer Cover	Gray	—	XBADGUUK35	1.40	10	—	—	—
Spacer Plate	—	—	XBADPUUK35	1.30	10	—	—	—
Partition Plate	—	—	—	—	—	XBATTK4	0.93	10
Fixed Bridge	—	10	XBAFBI106	8.30	10	—	—	—
Blank Marker Strip (strip of 10)	White	—	XBMZB6 ①	0.67	10	XBMZB10 ①	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)	0.24 (6.2) / 2.20 (56.0) / 0.10 (2.5)	0.20 (5.2) / 1.81 (46.0) / 0.04 (1.0)
Height for 35 x 7.5 / 35 x 15 / 32 in Inches (mm)	2.44 (62.0) / 2.74 (69.5) / 2.64 (67.0)	1.57 (40.0) / 1.87 (47.5) / 1.77 (45.0)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²	32 / 4	—
Rated Surge Voltage in kV / Contamination Class	6 / 3	—
Surge Voltage Category / Insulating Material Group	III / I	—
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	0.25 – 4 / 0.25 – 2.5	—
Multi-Conductor Connection (same cross-section)		
Solid / Stranded in mm ²	0.2 – 1.5 / 0.2 – 1.5	—
Stranded with Ferrules w/o Plastic Sleeve in mm ²	0.25 – 1.5	—
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.5 – 1.5	—
Stripping Length in Inches (mm)	0.31 (8)	0.28 (7)
Thread	M3	M3
Torque in in-lb (Nm)	5.3 – 7.1 (0.6 – 0.8)	5.3 – 7.1 (0.6 – 0.8)

① For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

High Current Blocks

Screw Connection High Current Blocks

Product Description

Eaton's XBUK high current terminal blocks offer a reliable connection via the superior construction which 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.



XBUK50



XBUK150

Product Selection

Table 12. Screw Connection High Current Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			20.0 mm 1/0 / 50 mm ² 1000 / 150 / 1/0 750 / 135 / 1/0 600 / 150 / 1/0			31.0 mm 300 MCM / 150 mm ² 1000 / 309 / 2-300 726 / 265 / 2-300 600 / 285 / 2 AWG – 300 kcmil		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Screw Connection High Current Block	Gray Blue	—	XBUK50	18.20	10	XBUK150	36.25	10
		—	XBUK50BU	18.20	10	—	—	—
Accessories								
Fixed Bridge, screw heads with insulating color	—	2	XBAFBI220	4.70	10	—	—	—
Insertion Bridge	—	2	—	—	—	XBAEB231	19.00	10
Blank Marker Strip (strip of 10)	White	—	XBMZB10 ②	0.67	10	XBMZB10 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop			XBAES35AL	6.70	10	XBAES35AL	6.70	10
Technical Data								
Dimensions								
Width / Length in Inches (mm)			0.79 (20.0) / 2.78 (70.5)			1.22 (31.0) / 3.94 (100.0)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			3.29 (83.5) / 3.21 (81.5)			4.67 (118.5) / 4.57 (116.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			150 / 50			309 / 150		
Maximum Cross-Section with Insertion Bridge			— / —			150 / 120		
Solid / Stranded in mm ²								
Rated Surge Voltage in kV / Contamination Class			8 / 3			8 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²			25 – 50 / 25 – 50			50 – 150 / 50 – 150		
Multi-Conductor Connection (same cross-section)								
Solid / Stranded in mm ²			10 – 16 / 10 – 16			25 – 50 / 35 – 50		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			10 – 16			25 – 50		
Stripping Length in Inches (mm)			0.94 (24)			1.57 (40)		
Thread			M6			M10		
Torque in in-lb (Nm)			53 – 71 (6 – 8)			221 – 267 (25 – 30)		

① EU type — examination certificate number: KEMA 05ATEX2170 U (XBUK50), KEMA 05ATEX2171 U (XBUK150).

② For information on Printed Marking Tag Options, see **Page 80**.

High Current Blocks



XBUK95PE

Table 12. Screw Connection High Current Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			25.0 mm 000 AWG / 95 mm ² — / 232 / 4-000 — / — / 4-000 — / — / 2-4/0		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Screw Connection High Current Ground Block	Green/ Yellow	—	XBUK95PE	41.25	10
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Accessories

Blank Marker Strip (strip of 10)	White	—	XBMZB10 ②	0.67	10
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25
End Stop			XBAES35AL	6.70	10

Technical Data

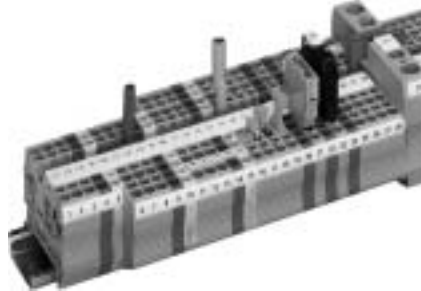
Dimensions		
Width / Length in Inches (mm)		0.98 (25.0) / 3.27 (83.0)
Height for 35 x 7.5 / 35 x 15 / 32 in Inches (mm)		— / 3.90 (99.0) / 3.80 (96.5)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²		232 / 95
Rated Surge Voltage in kV / Contamination Class		8 / 3
Surge Voltage Category / Insulating Material Group		III / I
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²		35 – 95 / 35 – 95
Multi-Conductor Connection (same cross-section)		
Solid / Stranded in mm ²		25 – 35 / 25 – 35
Stranded with Ferrules w/o Plastic Sleeve in mm ²		16 – 35
Stripping Length in Inches (mm)		1.18 (30)
Terminal Point — Thread / Torque in in-lb (Nm)		M8 / 133 – 177 (15 – 20)
Fastening — Thread / Torque in in-lb (Nm)		M8 / 133 – 177 (15 – 20)

① EU type — examination certificate number: KEMA 05ATEX2172 U.

② For information on Printed Marking Tag Options, see **Page 80**.

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Spring Cage Terminal Blocks

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.



Spring Cage Connection

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
- ATEX approval (Eex e applications)

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

Single Level — Through-Feed

Spring Cage Single Level — Through-Feed

Product Description

The space-saving design and front entry design make the XBPT Series ideal for control systems where there is little space. Even so, they offer maximum connection space, resulting in fast wiring of stranded and solid conductors, with or without ferrules. XBPT terminal blocks are available with cross-sections from 2.5 mm² up to 35 mm². The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks.



XBPT25



XBPT4

Product Selection

Table 13. Spring Cage Single Level — Through-Feed Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 800 / 31 / 28-12 550 / 25/21 / 24-12 600 / 20 / 26-12			6.2 mm 10 AWG / 4 mm ² 800 / 40 / 28-10 550 / 34/30 / 24-10 600 / 30 / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Single Level — Through-Feed	Gray	—	XBPT25	1.20	50	XBPT4	1.30	50
	Blue	—	XBPT25BU	1.20	50	XBPT4BU	1.30	50
	White	—	XBPT25WH	1.30	50	—	—	—
	Red	—	XBPT25RD	1.30	50	—	—	—
	Black	—	XBPT25BK	1.30	50	—	—	—
Accessories								
End Cover	Gray	—	XBACPT25	0.59	10	XBACPT4	0.62	10
Partition Plate			XBATPT4	0.52	10	XBATPT4	0.52	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ③	0.62	10	XBMZBF6 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions				
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 1.91 (48.5) / 0.09 (2.2)	0.24 (6.2) / 2.20 (56.0) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.45 (36.8) / 1.73 (44.0)	1.45 (36.8) / 1.73 (44.0)
Technical Data in Accordance with IEC				
Maximum Load Current in A / Cross-Section in mm ²			31 / 4	40 / 6
Rated Surge Voltage in kV / Contamination Class			8 / 3	8 / 3
Surge Voltage Category / Insulating Material Group			III / I	III / I
Connection Capacity				
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5	0.25 – 4
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5	0.25 – 4
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5	0.5 – 1
Stripping Length in Inches (mm)			0.39 (10)	0.39 (10)

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPT25), KEMA 05ATEX2155 U (XBPT4).

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol 1CD1



XBPT6



XBPT10

Table 13. Spring Cage Single Level — Through-Feed Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ^① in V / A / AWG UL-cUL Ratings in V / A / AWG			8.2 mm 8 AWG / 6 mm ² 800 / 52 / 24-8 550 / 45/36 / 20-8 600 / 50 / 20-8			10.2 mm 6 AWG / 10 mm ² 800 / 65 / 24-6 550 / 50/63 / 16-6 600 / 65 / 16-6		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Single Level — Through-Feed	Gray	—	XBPT6	2.00	50	XBPT10	2.60	50
	Blue	—	XBPT6BU	2.00	50	XBPT10BU	2.60	50
Accessories								
End Cover	Gray	—	XBACPT6	0.62	10	XBACPT10	0.78	10
Partition Plate			XBATPT6	0.57	10	—	—	—
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS28	0.62	10	XBAFBS210	1.65	10
Reducing Bridge	Red	—	—	—	—	XBARBST10	3.65	10
Test Adapter			XBATSPA14	11.10	10	—	—	—
2.3 mm Dia. Test Plug			XBATSMPS- ^②	^②	—	XBATSMPS- ^②	^②	—
Modular Test Plug			XBATSPS8	1.10	10	—	—	—
Blank Marker Strip External Labeling	White	—	XBMZBF8 ^③	0.62	10	XBMZBF10 ^③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB8 ^③	0.67	10	XBMZB10 ^③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50
Technical Data								
Dimensions								
Width / Length / Cover Width in Inches (mm)			0.32 (8.2) / 2.74 (69.5) / 0.09 (2.2)			0.39 (10.0) / 2.81 (71.5) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.71 (43.5) / 2.01 (51.0)			1.99 (50.5) / 2.30 (58.5)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			52 / 10			65 / 16		
Rated Surge Voltage in kV / Contamination Class			8 / 3			8 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 6			0.25 – 10		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 6			0.25 – 10		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 1.5			1.5 – 2.5		
Stripping Length in Inches (mm)			0.47 (12)			0.71 (18)		

^① EU type — examination certificate number: KEMA 05ATEX2155 U (XBPT6), KEMA 05ATEX2156 U (XBPT10).

^② For ordering information, see **Table 70** on **Page 85**.

^③ For information on Printed Marking Tag Options, see **Page 80**.

Single Level — Through-Feed



XBPT16



XBPT35

Table 13. Spring Cage Single Level — Through-Feed Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			12 mm 4 AWG / 16 mm ² 800 / 90 / 24-4 550 / 65/82 / 16-4 600 / 50 / 16-4			16 mm 2 AWG / 35 mm ² 800 / 125 / 14-2 750 / 108 / 14-2 600 / 115 / 14-2		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Spring Cage Single Level — Through-Feed	Gray	—	XBPT16	3.15	50	XBPT35	19.70	10
	Blue	—	XBPT16BU	3.15	50	XBPT35BU	19.70	10

Accessories

End Cover	Gray	—	XBACPT16	0.81	10	②	—	—
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS212	2.00	10	XBAFBS216	2.25	10
Reducing Bridge	Red	—	XBARBST16	4.25	10	—	—	—
2.3 mm Dia. Test Plug			XBATSMPS-__ ③	③	—	XBATSMPS-__ ③	③	—
Blank Marker Strip External Labeling	White	—	XBMZBF12 ④	0.62	10	XBMZBF15 ④	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB12 ④	0.67	10	XBMZB15 ④	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions					
Width / Length / Cover Width in Inches (mm)			0.47 (12.0) / 3.15 (80.0) / 0.09 (2.2)		0.63 (16.0) / 3.94 (100.0) / —
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			2.01 (51.0) / 2.30 (58.5)		2.32 (59.0) / 2.62 (66.5)
Technical Data in Accordance with IEC					
Maximum Load Current in A / Cross-Section in mm ²			90 / 25		125 / 35
Rated Surge Voltage in kV / Contamination Class			8 / 3		8 / 3
Surge Voltage Category / Insulating Material Group			III / I		III / I
Connection Capacity					
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 16		2.5 – 35
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 16		2.5 – 35
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			1.5 – 4		2.5 – 10
Stripping Length in Inches (mm)			0.71 (18)		0.98 (25)

① EU type — examination certificate number: KEMA 05ATEX2156 U.

② XBPT35 has an enclosed design. The use of an end cover is not required.

③ For ordering information, see **Table 70** on **Page 85**.

④ For information on Printed Marking Tag Options, see **Page 80**.

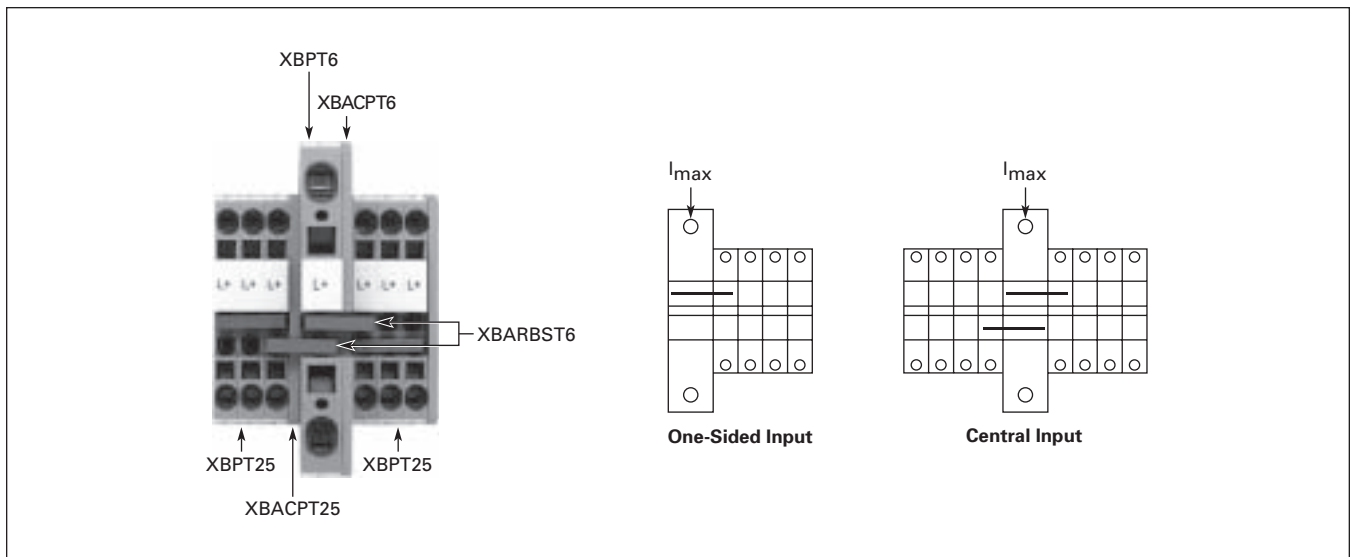


Figure 2. XBPT with Reducing Bridge

Table 14. Step-Down Bridge with Standard Feed-Through Terminal Blocks

Input		Pick-Off		One-Sided Input	Central Input	Bridge	
Terminal Block	Cross-Section	Terminal Block	Cross-Section AWG (mm ²)	I _{max}	I _{max}	Catalog Number	Price U. S. \$
XBPT6	8 AWG (6 mm ²)	XBPT25	12 (2.5)	40	56	XBARBST6	1.85
		XBPT4	10 (4)	45	56		
		XBQT15	14 (1.5)	35	56		
		XBQT25	12 (2.5)	40	56		
XBPT10	6 AWG (10 mm ²)	XBPT25	12 (2.5)	40	65	XBARBST10	3.65
		XBPT4	10 (4)	45	65		
		XBQT15	14 (1.5)	35	65		
		XBQT25	12 (2.5)	40	65		
XBPT16	4 AWG (16 mm ²)	XBPT25	12 (2.5)	40	80	XBARBST16	4.25
		XBPT4	10 (4)	45	90		
		XBQT15	14 (1.5)	35	70		
		XBQT25	12 (2.5)	40	80		

Single Level — Ground Block
Spring Cage Single Level — Ground Block
Product Description

The XBPT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact which meets all requirements of IEC 60-947-7-2.


XBPT25PE

XBPT4PE
Product Selection
Table 15. Screw Connection Single Level — Ground Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 28-12 — / — / 24-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm ² — / — / 28-10 — / — / 24-10 — / — / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Spring Cage Single Level Ground Block	Green/ Yellow	—	XBPT25PE	4.20	50	XBPT4PE	4.30	50
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Accessories

End Cover	Gray	—	XBACPT25	0.59	10	XBACPT4	0.62	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ③	0.62	10	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions								
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 1.91 (48.5) / 0.09 (2.2)			0.24 (6.2) / 2.20 (56.0) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.45 (36.8) / 1.73 (44.0)			1.45 (36.8) / 1.73 (44.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			—			—		
Rated Surge Voltage in kV / Contamination Class			8 / 3			8 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5			0.5 – 1		
Stripping Length in Inches (mm)			0.39 (10)			0.39 (10)		

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPT25PE), KEMA 05ATEX2155 U (XBPT4PE).

② For information on Printed Marking Tag Options, see **Page 80**.

Single Level — Ground Block



XBPT6PE



XBPT10PE

Table 15. Screw Connection Single Level — Ground Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			8.2 mm 8 AWG / 6 mm ² — / — / 24-8 — / — / 20-8 — / — / 20-8			10.2 mm 6 AWG / 10 mm ² — / 65 / 24-6 — / — / 16-6 — / — / 16-6		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Spring Cage Single Level Ground Block	Green/ Yellow	—	XBPT6PE	5.70	50	XBPT10PE	7.25	50
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Accessories

End Cover	Gray	—	XBACPT6	0.62	10	XBACPT10	0.78	10
Plug-In Bridge — for cross connections in the terminal center		2	—	—	—	XBABFS210	1.65	10
Blank Marker Strip External Labeling	White	—	XBMZBF8 ②	0.62	10	XBMZBF10 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB8 ②	0.67	10	XBMZB10 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions								
Width / Length / Cover Width in Inches (mm)			0.32 (8.2) / 2.74 (69.5) / 0.09 (2.2)			0.39 (10.0) / 2.81 (71.5) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.71 (43.5) / 2.01 (51.0)			1.99 (50.5) / 2.28 (58.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			—			65 / 16		
Rated Surge Voltage in kV / Contamination Class			8 / 3			8 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 6			0.25 – 10		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 6			0.25 – 10		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 1.5			1.5 – 2.5		
Stripping Length in Inches (mm)			0.47 (12)			0.71 (18)		

① EU type — examination certificate number: KEMA 05ATEX2155 U (XBPT6PE), KEMA 05ATEX2156 U (XBPT10PE).

② For information on Printed Marking Tag Options, see **Page 80**.

Single Level — Ground Block



XBPT16PE



XBPT35PE

Table 15. Screw Connection Single Level — Ground Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			12 mm 4 AWG / 16 mm ² — / 90 / 24-4 — / — / 16-4 — / — / 16-4			16 mm 2 AWG / 35 mm ² — / 125 / 14-2 — / — / 14-2 — / — / 14-2		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Spring Cage Single Level Ground Block	Green/ Yellow	—	XBPT16PE	8.00	25	XBPT35PE	42.50	10
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Accessories

End Cover	Gray	—	XBACPT16	0.81	10	②	—	—
Plug-In Bridge — for cross connections in the terminal center		2	XBAFBS212	2.00	10	XBAFBS216	2.25	10
Blank Marker Strip External Labeling	White	—	XBMZBF12 ③	0.62	10	XBMZBF15 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB12 ③	0.67	10	XBMZB15 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions					
Width / Length / Cover Width in Inches (mm)			0.47 (12.0) / 3.15 (80.0) / 0.09 (2.2)		0.63 (16.0) / 3.94 (100.0) / —
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			2.01 (51.0) / 2.30 (58.5)		2.32 (59.0) / 2.62 (66.5)
Technical Data in Accordance with IEC					
Maximum Load Current in A / Cross-Section in mm ²			90 / 25		125 / 35
Rated Surge Voltage in kV / Contamination Class			8 / 3		8 / 3
Surge Voltage Category / Insulating Material Group			III / I		III / I
Connection Capacity					
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 16		2.5 – 35
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 16		2.5 – 35
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			1.5 – 4		2.5 – 10
Stripping Length in Inches (mm)			0.71 (18)		0.98 (25)

① EU type — examination certificate number: KEMA 05ATEX2156 U.

② XBPT35PE has an enclosed design. The use of an end cover is not required.

③ For information on Printed Marking Tag Options, see **Page 80**.

Spring Cage Multi-Conductor Terminal Block

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 XBPT...D12 terminal block accomplishes this without any additional terminal blocks or bridging required. The XBPT...D22 terminal blocks allow four wires to be connected to one potential — and can therefore be used as compact power distributors. There is also a version, XBPT25D22U or XBPT4D22U, with an interrupted busbar in the terminal center. This makes two feed-through terminal blocks available in one level. One side of this block can be bridged using the standard plug-in bridges. Double marker carriers are available for clear marking of the feed-through levels.



XBPT25D12



XBPT4D12

Product Selection

Table 16. Spring Cage Multi-Conductor Terminal Blocks Product Selection

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			5.2 mm 12 AWG / 2.5 mm ² 800 / 28 / 28-12 550 / 25/21 / 24-12 600 / 20 / 26-12			6.2 mm 10 AWG / 4 mm ² 800 / 40 / 28-10 550 / 34/29 / 24-10 600 / 30 / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Multi-Conductor	Gray Blue	— —	XBPT25D12 XBPT25D12BU	1.40 1.40	50 50	XBPT4D12 XBPT4D12BU	1.60 1.60	50 50
Accessories								
End Cover	Gray	—	XBACPT25D12	0.59	10	XBACPT4D12	0.59	10
End Cover Segment	Gray	—	XBASPT25	0.42	10	XBASPT4	0.42	10
Partition Plate			XBATPTD12	0.75	10	XBATPTD12	0.75	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10	XBMZB6 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)	0.20 (5.2) / 2.38 (60.5) / 0.09 (2.2)	0.24 (6.2) / 2.81 (71.5) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)	1.44 (36.5) / 1.73 (44.0)	1.44 (36.5) / 1.73 (44.0)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²	28 / 4	40 / 6
Rated Surge Voltage in kV / Contamination Class	8 / 3	8 / 3
Surge Voltage Category / Insulating Material Group	III / I	III / I
Connection Capacity		
Stranded with Ferrule w/ Plastic Sleeve in mm ²	0.25 – 2.5	0.25 – 4
Stranded with Ferrules w/o Plastic Sleeve in mm ²	0.25 – 2.5	0.25 – 4
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.5	0.5 – 1
Stripping Length in Inches (mm)	0.39 (10)	0.39 (10)

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPT25D12), KEMA 05ATEX2155 U (XBPT4D12).

② For ordering information, see Table 70 on Page 85.

③ For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Multi-Conductor Terminal Block



XBPT25D22



XBPT4D22

Table 16. Spring Cage Multi-Conductor Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 800 / 28 / 28-12 550 / 24/21 / 24-12 600 / 20 / 26-12			6.2 mm 10 AWG / 4 mm ² 800 / 40 / 28-10 550 / 34/25 / 24-10 600 / 30 / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Multi-Conductor	Gray	—	XBPT25D22	1.90	50	XBPT4D22	2.20	50
	Blue	—	XBPT25D22BU	1.90	50	XBPT4D22BU	2.20	50
Spring Cage Multi-Conductor w/ interrupted busbar	Gray	—	XBPT25D22U	2.45	50	XBPT4D22U	2.90	50
Accessories								
End Cover	Gray	—	XBACPT25D22	0.62	10	XBACPT4D22	0.62	10
End Cover Segment	Gray	—	XBASPT25	0.42	10	XBASPT4	0.42	10
Partition Plate			XBATPTD22	0.80	10	XBATPTD22	0.80	50
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10	XBMZB6 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions				
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 2.83 (72.0) / 0.09 (2.2)	0.24 (6.2) / 3.43 (87.0) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.44 (36.5) / 1.73 (44.0)	1.44 (36.5) / 1.73 (44.0)
Technical Data in Accordance with IEC				
Maximum Load Current in A / Cross-Section in mm ²			28 / 4	40 / 6
Rated Surge Voltage in kV / Contamination Class			8 / 3	8 / 3
Surge Voltage Category / Insulating Material Group			III / I	III / I
Connection Capacity				
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5	0.25 – 4
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5	0.25 – 4
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5	0.5 – 1
Stripping Length in Inches (mm)			0.39 (10)	0.39 (10)

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPT25D22), KEMA 05ATEX2155 (XBPT4D22).

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Spring Cage Multi-Connector Ground Block

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 which meets all requirements of IEC 60-947-7-2.



XBPT25D12PE



XBPT4D12PE

Product Selection

Table 17. Spring Cage Multi-Conductor Ground Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 28-12 — / — / 24-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm ² — / — / 28-10 — / — / 24-10 — / — / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Spring Cage Multi-Conductor Ground Block	Green/Yellow	—	XBPT25D12PE	4.60	50	XBPT4D12PE	4.95	50
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Accessories

End Cover	Gray	—	XBACPT25D12	0.59	10	XBACPT4D12	0.59	10
End Cover Segment	Gray	—	XBASPT25	0.42	10	XBASPT4	0.42	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10	XBMZB6 ②	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)			0.20 (5.2) / 2.38 (60.5) / 0.09 (2.2) 1.44 (36.5) / 1.73 (44.0)			0.24 (6.2) / 2.81 (71.5) / 0.09 (2.2) 1.44 (36.5) / 1.73 (44.0)		
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group			— 8 / 3 III / I			— 8 / 3 III / I		
Connection Capacity Stranded with Ferrule w/ Plastic Sleeve in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5 0.25 – 2.5 0.5			0.25 – 4 0.25 – 4 0.5 – 1		
Stripping Length in Inches (mm)			0.39 (10)			0.39 (10)		

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPT25D12PE), KEMA 05ATEX2155 U (XBPT4D12PE).

② For information on Printed Marking Tag Options, see **Page 80**.

Multi-Connector Ground Block



XBPT25D22PE



XBPT4D22PE

Table 17. Spring Cage Multi-Conductor Ground Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 28-12 — / — / 24-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm ² — / — / 28-10 — / — / 24-10 — / — / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Multi-Conductor Ground Block	Green/ Yellow	—	XBPT25D22PE	6.15	50	XBPT4D22PE	6.40	50
Accessories								
End Cover	Gray	—	XBACPT25D22	0.62	10	XBACPT4D22	0.62	10
End Cover Segment	Gray	—	XBASPT25	0.42	10	XBASPT4	0.42	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10	XBMZB6 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50
Technical Data								
Dimensions								
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 2.83 (72.0) / 0.09 (2.2)			0.24 (6.2) / 3.43 (87.0) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.44 (36.5) / 1.73 (44.0)			1.44 (36.5) / 1.73 (44.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			—			—		
Rated Surge Voltage in kV / Contamination Class			8 / 3			8 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5			0.5 – 1		
Stripping Length in Inches (mm)			0.39 (10)			0.39 (10)		

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPT25D22PE), KEMA 05ATEX2155 U (XBPT4D22PE).

② For information on Printed Marking Tag Options, see **Page 80**.

Spring Cage Double Level Block

Product Description

The potentials of the **XB** double level terminal blocks routed on two levels reduce space requirements by 50% compared with single level terminal blocks. The XBPTT blocks can be bridged on both levels with the plug-in bridge system and labeling options are available for each terminal point, resulting in maximum customization for each application. The XBPTT25PV and XBPTT4PV terminal blocks have two interconnected levels. Equipotential bonding is marked by an imprint on the housing. These terminal blocks can also be bridged and used to construct compact potential distributor blocks.



XBPTT25



XBPTT4

Product Selection

Table 18. Spring Cage Double Level Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 500 / 26 / 28-12 420 / 23/19 / 24-12 600 / 20 / 26-12			6.2 mm 10 AWG / 4 mm ² 500 / 32 / 28-10 420 / 32/27 / 24-10 300 / 30 / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Double Level Block	Gray Blue	—	XBPTT25 XBPTT25BU	2.90 2.90	50 50	XBPTT4 XBPTT4BU	3.05 3.05	50 50
Spring Cage Double Level — terminal block with potential distribution between the levels	Gray	—	XBPTT25PV	6.65	50	XBPTT4PV	6.95	50
Accessories								
End Cover	Gray	—	XBACPTT25	0.62	10	XBACPTT4	0.65	10
Partition Plate			XBATPTT4	0.86	10	XBATPTT4	0.86	50
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip (strip of 10)	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50
Technical Data								
Dimensions								
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 2.66 (67.5) / 0.09 (2.2)			0.24 (6.2) / 3.29 (83.5) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.87 (47.5) / 2.17 (55.0)			1.87 (47.5) / 2.17 (55.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			26 / 4			32 / 6		
Rated Surge Voltage in kV / Contamination Class			6 / 3			6 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5			0.5 – 1		
Stripping Length in Inches (mm)			0.39 (10)			0.39 (10)		

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPTT25), KEMA 05ATEX2155 U (XBPTT4).

② For information on Printed Marking Tag Options, see **Page 80**.

Double Level Block



XBPTT25PE



XBPTT4PE

Table 18. Spring Cage Double Level Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 28-12 — / — / 24-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm ² — / — / 28-10 — / — / 24-10 — / — / 20-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Double Level Ground Block	Green/ Yellow	—	XBPTT25PE	8.50	50	XBPTT4PE	9.25	50
Accessories								
End Cover	Gray	—	XBACPTT25	0.62	10	XBACPTT4	0.65	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Blank Marker Strip (strip of 10)	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50
Technical Data								
Dimensions								
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 2.66 (67.5) / 0.09 (2.2)			0.24 (6.2) / 3.29 (83.5) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.87 (47.5) / 2.17 (55.0)			1.87 (47.5) / 2.17 (55.0)		
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		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 4		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5			0.5 – 1		
Stripping Length in Inches (mm)			0.39 (10)			0.39 (10)		

① EU type — examination certificate number: KEMA 05ATEX2154 U (XBPTT25PE), KEMA 05ATEX2155 U (XBPTT4PE).

② For information on Printed Marking Tag Options, see **Page 80**.

Triple Level Block

Spring Cage Triple Level Block

Product Description

The spring cage triple level terminal block incorporates three feed-through levels in a 5.2 mm wide housing. This is ideal for high density wiring, especially important when switchgear space is restricted. There is a bridge shaft on each level allowing use of this block as a compact potential distributor or as a sensor terminal. The XBPTK25PV has all six terminal points interconnected. All the triple level blocks can be labeled on each level.



XBPTK25



XBPTK25PV

Product Selection

Table 19. Spring Cage Triple Level Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 500 / 28 / 28-12 600 / 20 / 26-12			5.2 mm 12 AWG / 2.5 mm ² 500 / 28 / 28-12 600 / 20 / 26-12		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Triple Level Block	Gray	—	XBPTK25	4.60	50	—	—	—
Spring Cage Triple Level — terminal block with potential distribution between the levels	Gray	—	—	—	—	XBPTK25PV	7.90	50
Accessories								
End Cover	Gray	—	XBACPT25K	0.78	10	XBACPT25K	0.78	50
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS25	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS35	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS55	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS105	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS505	18.40	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS5	10.70	10
Blank Marker Strip (strip of 10)	White	—	XBMZBF5 ①	0.62	10	XBMZBF5 ①	0.62	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions			
Width / Length / Cover Width in Inches (mm)		0.20 (5.2) / 3.92 (99.5) / 0.09 (2.2)	0.20 (5.2) / 3.92 (99.5) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)		2.28 (58.0) / 2.58 (65.5)	2.28 (58.0) / 2.58 (65.5)
Technical Data in Accordance with IEC			
Maximum Load Current in A / Cross-Section in mm ²		28 / 4	28 / 4
Rated Surge Voltage in kV / Contamination Class		6 / 3	6 / 3
Surge Voltage Category / Insulating Material Group		III / I	III / I
Connection Capacity			
Stranded with Ferrule w/ Plastic Sleeve in mm ²		0.25 – 2.5	0.25 – 2.5
Stranded with Ferrules w/o Plastic Sleeve in mm ²		0.25 – 2.5	0.25 – 2.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²		0.5	0.5
Stripping Length in Inches (mm)		0.39 (10)	0.39 (10)

① For information on Printed Marking Tag Options, see Page 80.

Fuse Terminal Block

Spring Cage Fuse Terminal Block

Product Description

The spring cage fuse terminal blocks act as a fuse carrier for 5 x 20 mm or 6.3 x 32 mm fuses. They also allow for potential distribution with the double bridge shaft. For signaling a triggered fuse, fuse terminal blocks with light indicators are available (for both AC and DC voltage).



XBPT4FBE

Product Selection

Table 20. Spring Cage Fuse Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-3 with Fuse in V / A / AWG IEC 60 947-7-3 as Disconnect Terminal Block in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 10 AWG / 4 mm ² ① / ① / 28-10 250 / 6.3 / 28-10 300 / 6.3 / 24-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Fuse Terminal Block for 5 x 20 mm fuse	Black	—	XBPT4FBE	6.40	50
Fuse Terminal Block w/ LED 15 – 30V, 3.5 – 8.1A	Black	—	XBPT4FBEL24	12.80	50
Fuse Terminal Block w/ LED 30 – 60V, 0.8 – 2.0A	Black	—	XBPT4FBEL60	12.80	50
Fuse Terminal Block w/ LED 110 – 250V, 0.5 – 1.0A	Black	—	XBPT4FBEL250	12.80	50

Accessories

Partition Plate			XBATPT4	0.52	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS26	0.50	10
		3	XBAFBS36	0.99	10
		5	XBAFBS56	1.95	10
		10	XBAFBS106	4.05	10
Blank Marker Strip External Labeling	White	—	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25
End Stop					
One-Screw Mounted			XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length in Inches (mm)		0.24 (6.2) / 2.42 (61.5)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)		2.46 (62.5) / 2.76 (70.0)
Technical Data in Accordance with IEC		
Fuse Type / Dimensions in mm ²		G / 5 x 20
Maximum Current with Single Arrangement in A		6.3
Maximum Power Dissipation		
At 23°C in acc. with IEC 60 947-7-3 in W		①
Rated Surge Voltage in kV / Contamination Class		4/3
Surge Voltage Category / Insulating Material Group		III / I
Connection Capacity		
Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²		0.25 – 4 / 0.25 – 4
Stranded with Twin Ferrule & Plastic Sleeve in mm ²		0.5
Stripping Length in Inches (mm)		0.39 (10)

① See table below (the current is determined by the fuse used, the voltage by the selected light indicator).

② For information on Printed Marking Tag Options, see **Page 80**.

Note: The cartridge fuse holders should be selected according to the maximum power dissipation (self-heating) of the cartridge fuse inserts. The thermal conditions in closed fuse holes should be checked according to the application and installation.

Higher ambient temperatures are an additional strain on fuse inserts. In applications of this kind, the shift of the rated current should be taken into consideration accordingly.

Max. power dissipation at 23°C
(in acc. with IEC 60 947-7-3)

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

Cartridge Fuse Inserts 5 x 20 and 6.3 x 32 mm in acc. with IEC 60 947-7-3.

Terminal Block	U (V)	Individual	Inter-connected	I _{max} (A)
Overload Protection				
XBPT4FBN	400	1.6W	1.6W	10.0
XBPT4FBE	250	1.6W	1.6W	6.3
Short Circuit Protection Only				
XBPT4FBN	400	4W	2.5W	10.0
XBPT4FBE	250	4W	2.5W	6.3

Discount Symbol 1CD1

Fuse Terminal Block



XBPT4FBN

Table 20. Spring Cage Fuse Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-3 with Fuse in V / A / AWG IEC 60 947-7-3 as Disconnect Terminal Block in V / A / AWG UL-cUL Ratings in V / A / AWG			8.2 mm 10 AWG / 4 mm ² 400 / 10 / 28-10 400 / 10 / 28-10 300 / 10 / 24-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Fuse Terminal Block for 6.3 x 32 mm (1/4" x 1-1/4") fuse	Black	—	XBPT4FBN	8.00	50
Fuse Terminal Block w/ LED 12 – 30V, 1.0 – 2.5 mA	Black	—	XBPT4FBNL24	14.20	50
Fuse Terminal Block w/ LED 110 – 250V, 0.5 – 2.5 mA	Black	—	XBPT4FBNL250	14.20	50

Accessories

Partition Plate			XBATQTD12	0.63	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS28	0.62	10
Blank Marker Strip External Labeling	White	—	XBMZBF8 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB6 ②	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.32 (8.2) / 3.01 (76.5) 2.72 (69.0) / 3.01 (76.5)
Technical Data in Accordance with IEC Fuse Type / Dimensions in mm ² Maximum Current with Single Arrangement in A	G / 6.3 x 32 10
Maximum Power Dissipation At 23°C in acc. with IEC 60 947-7-3 in W Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	① 6 / 3 III / I
Connection Capacity Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ² Stranded with Twin Ferrule & Plastic Sleeve in mm ²	0.25 – 4 / 0.25 – 4 0.5
Stripping Length in Inches (mm)	0.39 (10)

① See table below (the current is determined by the fuse used, the voltage by the selected light indicator).

② For information on Printed Marking Tag Options, see Page 80.

Note: The cartridge fuse holders should be selected according to the maximum power dissipation (self-heating) of the cartridge fuse inserts. The thermal conditions in closed fuse holes should be checked according to the application and installation.

Higher ambient temperatures are an additional strain on fuse inserts. In applications of this kind, the shift of the rated current should be taken into consideration accordingly.

Max. power dissipation at 23°C
(in acc. with IEC 60 947-7-3)

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

Cartridge Fuse Inserts 5 x 20 and 6.3 x 32 mm in acc. with IEC 60 947-7-3.

Terminal Block	U (V)	Individual	Inter-connected	I _{max.} (A)
Overload Protection				
XBPT4FBN	400	1.6W	1.6W	10.0
XBPT4FBE	250	1.6W	1.6W	6.3
Short Circuit Protection Only				
XBPT4FBN	400	4W	2.5W	10.0
XBPT4FBE	250	4W	2.5W	6.3

Discount Symbol 1CD1

Spring Cage Disconnect and Component Terminal Blocks

Product Description

The XBPT knife disconnect terminal blocks feature narrow construction and high current carrying capacity. They also have a test connection parallel to the disconnect point for a 2.3 mm diameter test plug. Potential distribution is easily accomplished with the plug-in bridges. There are front connection spring cage terminal blocks available for multi-conductor connections in the smallest possible space. The XBPT4TG disconnect terminal block accommodates component plugs for resistors, diodes, or capacitors, and fuse plugs with or without indication.



XBPT25MT
Knife Disconnect



XBPT25D12MT
Knife Disconnect

Product Selection

Table 21. Spring Cage Disconnect and Component Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 400 / 16 / 28-12 600 / 16 / 26-12			5.2 mm 12 AWG / 2.5 mm ² 400 / 16 / 28-12 600 / 16 / 26-12		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Knife Disconnect	Gray	—	XBPT25MT	3.50	50	XBPT25D12MT	4.05	50
Accessories								
End Cover	Gray	—	XBACPT25D12	0.59	10	XBACPT25D22	0.62	10
End Cover Segment	Gray	—	—	—	—	XBACPT25	0.59	10
Partition Plate			XBATPTD12	0.75	10	XBATPTD22	0.80	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS25	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS35	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS55	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS105	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS505	18.40	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^①	^①	—	XBATSMPS- ^①	^①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS5	10.70	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ^②	0.62	10	XBMZBF5 ^②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ^②	0.67	10	XBMZB5 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions								
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 2.38 (60.5) / 0.09 (2.2)			0.20 (5.2) / 2.83 (72.0) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.44 (36.5) / 1.73 (44.0)			1.44 (36.5) / 1.73 (44.0)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			16 / 4			16 / 4		
Rated Surge Voltage in kV / Contamination Class			6 / 3			6 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 2.5		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 2.5		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5			0.5		
Stripping Length in Inches (mm)			0.39 (10)			0.39 (10)		

① For ordering information, see **Table 70 on Page 85**.

② For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Disconnect and Component Terminal Blocks

XBPT25D22MT
Knife Disconnect

XBPT4MT
Knife Disconnect
Table 21. Spring Cage Disconnect and Component Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 400 / 16 / 28-12 600 / 16 / 26-12			6.2 mm 10 AWG / 4 mm ² 400 / 16 / 28-10 300 / 6.3 / 24-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Knife Disconnect	Gray	—	XBPT25D22MT	4.50	50	XBPT4MT	3.80	50
Accessories								
End Cover	Gray	—	XBACPT25D22MT	0.62	10	①	—	—
End Cover Segment	Gray	—	XBACPT25	0.59	10	—	—	—
Partition Plate			—	—	—	XBATPT4	0.52	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ③	0.62	10	XBMZBF6 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50
Technical Data								
Dimensions								
Width / Length / Cover Width in Inches (mm)				0.20 (5.2) / 3.31 (84.0) / 0.09 (2.2)			0.24 (6.2) / 2.42 (61.5) / —	
Height for 35 x 7.5 / 35 x 15 in Inches (mm)				1.44 (36.5) / 1.73 (44.0)			1.44 (36.5) / 1.73 (44.0)	
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²				16 / 4			16 / 6	
Rated Surge Voltage in kV / Contamination Class				6 / 3			6 / 3	
Surge Voltage Category / Insulating Material Group				III / I			III / I	
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²				0.25 – 2.5			0.25 – 4	
Stranded with Ferrules w/o Plastic Sleeve in mm ²				0.25 – 2.5			0.25 – 4	
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²				0.5			0.5	
Stripping Length in Inches (mm)				0.39 (10)			0.39 (10)	

① XBPT4MT has an enclosed design. The use of an end cover is not required.

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Disconnect and Component Terminal Blocks



XBPT4TG
Disconnect

Table 21. Spring Cage Disconnect and Component Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 10 AWG / 4 mm ² 400 / 16 / 28-10 300 / 6.3 / 24-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Spring Cage Disconnect	Gray	—	XBPT4TG	2.70	50
Component Plug	Gray	—	XBPCO	3.65	10
Fuse Plug	Black	—	XBPFU	3.65	10
Fuse Plug with light indicator for 12 – 30V, 1 – 2.5 mA	Black	—	XBPFUL24	10.30	10
Fuse Plug with light indicator for 110 – 250V, 0.5 – 2.5 mA	Black	—	XBPFUL250	10.30	10

Accessories

End Cover	Gray	—	①	—	—
Partition Plate			XBATPT4	0.52	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS26	0.50	10
		3	XBAFBS36	0.99	10
		5	XBAFBS56	1.95	10
		10	XBAFBS106	4.05	10
		50	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS6	10.90	10
Blank Marker Strip External Labeling	White	—	XBMZBF6 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB6 ③	0.67	10
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25
End Stop					
One-Screw Mounted			XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)		0.24 (6.2) / 2.42 (61.5) / —
Height for 35 x 7.5 / 35 x 15 in Inches (mm)		1.44 (36.5) / 1.73 (44.0)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²		16 / 6
Rated Surge Voltage in kV / Contamination Class		6 / 3
Surge Voltage Category / Insulating Material Group		III / I
Connection Capacity		
Stranded with Ferrule w/ Plastic Sleeve in mm ²		0.25 – 4
Stranded with Ferrules w/o Plastic Sleeve in mm ²		0.25 – 4
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²		0.5
Stripping Length in Inches (mm)		0.39 (10)

① XBPT4TG has an enclosed design. The use of an end cover is not required.

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Spring Cage Hybrid Terminal Block

Product Description

The XBPU spring cage hybrid terminal blocks offer the best of both worlds. One side offers a spring cage connection and the other side offers the universal screw connection. Use the spring cage connection on the internal (factory) control cabinet side and the screw connection on the end customer (field) side. Ground terminal blocks of the same shape are also available.



XBPU25D12



XBPU25D12PE

Product Selection

Table 22. Spring Cage Hybrid Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 with Spring in V / A / AWG IEC 60 947-7-1 with Screw in V / A / AWG IEC 60 947-7-2 with Spring in V / A / AWG IEC 60 947-7-2 with Screw in V / A / AWG UL-cUL Ratings with Spring in V / A / AWG UL-cUL Ratings with Screw in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 800 / 28 / 28-12 800 / 28 / 26-14 — — 600 / 15 / 28-12 600 / 15 / 26-12			5.2 mm 12 AWG / 2.5 mm ² — — / — / 28-12 — / — / 26-14 — / — / 28-12 — / — / 26-12		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Spring Cage Hybrid Terminal Block	Gray	—	XBPU25D12	1.35	50	—	—	—
Spring Cage Hybrid Ground Block	Green/ Yellow	—	—	—	—	XBPU25D12PE	4.30	50
Accessories								
End Cover	Gray	—	XBACPU25D12	0.61	10	XBACPU25D12	0.61	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.50	10	XBAFBS25	0.50	50
		3	XBAFBS35	0.99	10	XBAFBS35	0.99	50
		5	XBAFBS55	1.95	10	XBAFBS55	1.95	50
		10	XBAFBS105	4.05	10	XBAFBS105	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS505	18.40	10
Test Adapter			XBATSPA14	11.10	10	—	—	—
2.3 mm Dia. Test Plug			XBATSMPS- ^①	—	—	—	—	—
Modular Test Plug			XBATSPS5	10.70	10	—	—	—
Blank Marker Strip External Labeling	White	—	XBMZBF5 ^②	0.62	10	XBMZBF5 ^②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ^②	0.67	10	XBMZB5 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

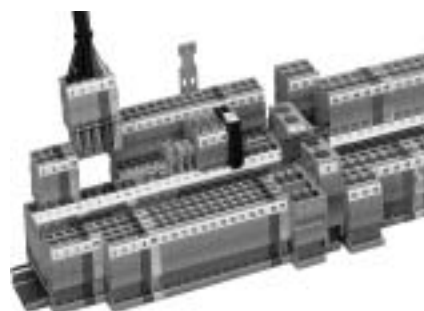
Dimensions								
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 2.57 (65.3) / 0.09 (2.2)			0.20 (5.2) / 2.57 (65.3) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.69 (42.8) / 1.98 (50.3)			1.69 (42.8) / 1.98 (50.3)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			28 / 4			—		
Rated Surge Voltage in kV / Contamination Class			8 / 3			8 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Capacity								
Stranded with Ferrule w/ Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 2.5		
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5			0.25 – 2.5		
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5 – 1			0.5 – 1		
Stripping Length in Inches (mm)			0.39 (10)			0.39 (10)		

^① For ordering information, see **Table 70** on **Page 85**.

^② For information on Printed Marking Tag Options, see **Page 80**.

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**Pluggable Spring Cage Connection
Terminal Blocks**

Product Description

The pluggable spring cage connection terminal blocks allow signal and power wiring to be made pluggable. This complete pluggable system has a patented spring that provides maximum connection space in a space-saving design. The pluggable system accommodates stranded conductors with a nominal cross-section of 2.5 mm², with or without ferrules.

Application Description

For applications requiring pluggable wiring up to a rated current of 32A and a rated voltage of 800V. The integrated overspring meets the most stringent vibration requirements. Also ideal where safety is a concern and flexibility is required. The basic terminal blocks and the plugs are finger-safe which also means the supply voltage can be input via either the terminal blocks or the plugs. With the XBAPSC receptacles, plug-in contacts can be accommodated safely in cable ducts and distributor shafts using minimal space. A test hole can accommodate a 2.3 mm diameter test plug in each receptacle, providing a practical solution. The XBAPSP plugs are intended for connecting one wire while the XBAPSPDB plugs are designed to connect two wires and provide an optional bridge.

Features

- Space-Saving Design
- Powerful Contact
- Finger-Safe



Pluggability

Pluggable Spring Cage Connection Terminal Blocks

Product Description

Contact to the DIN rail is made by simply snapping the terminal block onto the rail.



XBPT25P



XBPT25PD12

Product Selection

Table 23. Pluggable Spring Cage Connection Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 61 984 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 500 / 24 / 28-12 300 / 20 / 26-12			5.2 mm 12 AWG / 2.5 mm ² 500 / 24 / 28-12 300 / 20 / 26-12		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
Pluggable Spring Cage Connection	Gray	—	XBPT25P	1.95	50	XBPT25PD12	2.30	50
Accessories								
End Cover	Gray	—	XBACPT25	0.59	10	XBACPT25D12	0.59	10
End Cover Segment	Gray	—	—	—	—	XBASPT25	0.42	10
Partition Plate			XBATPT4	0.52	10	XBATPTD12	0.75	10
Plug-In Bridge — for cross connections in the terminal center	Red	2	XBAFBS25	0.50	10	XBAFBS25	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS35	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS55	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS105	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS505	18.40	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^①	— ^②	—	XBATSMPS- ^①	— ^②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS5	10.70	10
Blank Marker Strip External Labeling	White	—	XBMZBF5 ^③	0.62	10	XBMZBF5 ^②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ^③	0.67	10	XBMZB5 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)	0.20 (5.2) / 1.91 (48.5) / 0.09 (2.2)	0.20 (5.2) / 2.38 (60.5) / 0.09 (2.2)
Height for 35 x 7.5 / 35 x 15 in Inches (mm)	1.44 (36.5) / 1.73 (44.0)	1.44 (36.5) / 1.73 (44.0)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²	24 / 4	24 / 4
Rated Surge Voltage in kV / Contamination Class	6 / 3	6 / 3
Surge Voltage Category / Insulating Material Group	III / I	III / I
Connection Capacity		
Stranded with Ferrule w/ Plastic Sleeve in mm ²	0.25 – 2.5	0.25 – 2.5
Stranded with Ferrules w/o Plastic Sleeve in mm ²	0.25 – 2.5	0.25 – 2.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.5	0.5
Stripping Length in Inches (mm)	0.39 (10)	0.39 (10)

^① For ordering information, see **Table 70** on **Page 85**.

^② For information on Printed Marking Tag Options, see **Page 80**.

Pluggable Spring Cage Connection Accessories

Product Description

The pluggable XBPT series features an extensive range of application-oriented accessories. Strain reliefs are available for the plugs and can be snapped on at the required points as an option. The snap-lock fitting can be used for all plug variants. It is snapped into the outside of the plug housing as an option and hooks onto the terminal block housing when the plug is snapped on.



XBAPPZ2 XBAPPDZ4



XBAPPR2 XBAPPRZ

Product Selection

Table 24. Pluggable Spring Cage Connection Accessories

Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack
Accessories					
Strain Relief for Single Plugs	—	2	XBAPPZ2	0.73	10
		4	XBAPPZ4	0.73	10
Strain Relief for Double Plugs and Receptacles	—	2	XBAPPDZ2	0.98	10
		4	XBAPPDZ4	0.98	10
Snap-Lock Fitting for Plugs	—	1	XBAPPR	0.62	10
		2	XBAPPR2	0.93	10
Snap-Lock Fitting and Strain Relief for Plugs	—	2	XBAPPRZ	1.15	10



Strain Relief



Snap-Lock Fitting

Table 25. Optional Accessories Recommendations

Number of Positions Receptacle	Strain Relief
2 – 4	XBAPPZ2
5 – 10	XBAPPZ4 or (2) XBAPPZ2
11 – 15	(2) XBAPPZ4 or (4) XBAPPZ2

Plugs

Pluggable Spring Cage Connection Plugs

Product Description

Just like the basic terminal blocks, the plugs also offer the perfect solution for every application. The XBAPSP25_ plugs are designed for connecting one conductor. The XBAPSPDB25_ plug is designed for connecting two conductors and provides an additional bridging option.



XBAPSP25_
Single, Not Bridgeable



XBAPSPDB25_
Double, Bridgeable

Product Selection

Table 26. Pluggable Spring Cage Connection Plugs Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 500 / 24 / 28-12 300 / 20 / 26-12			5.2 mm 12 AWG / 2.5 mm ² 500 / 24 / 28-12 300 / 20 / 26-12		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Pluggable Spring Cage Connecting Plug	Gray	1	XBAPSP251	3.95	25	XBAPSPDB251	6.20	25
		2	XBAPSP252	5.80	25	XBAPSPDB252	10.10	25
		3	XBAPSP253	8.05	25	XBAPSPDB253	14.40	25
		4	XBAPSP254	10.70	25	XBAPSPDB254	19.00	25
		5	XBAPSP255	13.20	25	XBAPSPDB255	23.70	25
		6	XBAPSP256	15.80	25	XBAPSPDB256	28.50	25
		7	XBAPSP257	18.40	25	XBAPSPDB257	33.00	25
		8	XBAPSP258	21.00	25	XBAPSPDB258	37.75	25
		9	XBAPSP259	23.50	25	XBAPSPDB259	42.25	25
		10	XBAPSP2510	26.25	25	XBAPSPDB2510	47.00	25
		11	XBAPSP2511	28.75	10	XBAPSPDB2511	51.50	10
		12	XBAPSP2512	31.25	10	XBAPSPDB2512	56.50	10

Accessories

Plug-In Bridge — for cross connections in the bridge shaft	Red	2	—	—	—	XBAFBS25	0.50	10
		3	—	—	—	XBAFBS35	0.99	10
		5	—	—	—	XBAFBS55	1.95	10
		10	—	—	—	XBAFBS105	4.05	10
Snap-Lock Fitting and Strain Relief	Orange	2	XBAPPRZ	1.15	10	XBAPPRZ	1.15	10
Snap-Lock Fitting	Orange	1	XBAPPR	0.62	10	XBAPPR	0.62	10
	Orange	2	XBAPPR2	0.93	10	XBAPPR2	0.93	10
Strain Relief	Black	2	XBAPPZ2	0.73	10	XBAPPDZ2	0.98	10
	Black	4	XBAPPZ4	0.73	10	XBAPPDZ4	0.98	10
Blank Marker Strip	White	—	XBMZBF5 ①	0.62	10	XBMZBF5 ①	0.62	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Technical Data in Accordance with IEC					
Maximum Load Current in A / Cross-Section in mm ²			24 / 4		24 / 4
Rated Surge Voltage in kV / Contamination Class			6 / 3		6 / 3
Surge Voltage Category / Insulating Material Group			III / I		III / I
Connection Capacity					
Stranded with Ferrules w/ Plastic Sleeve in mm ²			0.25 – 2.5		0.25 – 2.5
Stranded with Ferrules w/o Plastic Sleeve in mm ²			0.25 – 2.5		0.25 – 2.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²			0.5		0.5
Stripping Length in Inches (mm)			0.39 (10)		0.39 (10)

① For information on Printed Marking Tag Options, see Page 80.

Receptacles

Pluggable Spring Cage Connection Receptacles

Product Description

With the XBAPSC25_, plug-in contacts can be accommodated safely in cable ducts and distributor shafts without using much space. The standard strain reliefs can also be used. Large-surface labeling makes it possible to mark the terminal points and the entire receptacle. A test hole can accommodate a 2.3 mm diameter test plug in each receptacle element, providing a practical solution.



XBAPSC25_

Product Selection

Table 27. Pluggable Spring Connection Receptacles Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 500 / 24 / 28-12 300 / 20 / 26-12		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Pluggable Spring Cage Connection Receptacle — Width in Inches (mm)	Gray				
0.41 (10.4)		2	XBAPSC252	6.20	25
0.61 (15.6)		3	XBAPSC253	7.35	25
0.82 (20.8)		4	XBAPSC254	9.05	25
1.02 (26.0)		5	XBAPSC255	11.10	25
1.23 (31.2)		6	XBAPSC256	13.10	25
1.43 (36.4)		7	XBAPSC257	15.10	25
1.64 (41.6)		8	XBAPSC258	17.10	25
1.84 (46.8)		9	XBAPSC259	19.10	25
2.05 (52.0)		10	XBAPSC2510	21.20	25
2.25 (57.2)		11	XBAPSC2511	23.20	10
2.46 (62.4)		12	XBAPSC2512	25.25	10

Accessories

2.3 mm Dia. Test Plug	Red	—	XBATSMPS_ ①	①	—
Strain Relief	Black	2	XBAPPDZ2	0.98	10
	Black	4	XBAPPDZ4	0.98	10
Blank Marker Strip	White	—	XBMZBF5 ②	0.62	10
DIN Rail					
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25
End Stop					
One-Screw Mounted			XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50

Technical Data

Dimensions		
Width / Length / Cover Width in Inches (mm)		0.20 (5.2) / 1.46 (37.2) / 0.09 (2.2)
Height in Inches (mm)		0.71 (18.0)
Technical Data in Accordance with IEC		
Maximum Load Current in A / Cross-Section in mm ²		24 / 4
Rated Surge Voltage in kV / Contamination Class		6 / 3
Surge Voltage Category / Insulating Material Group		III / I
Connection Capacity		
Stranded with Ferrules w/ Plastic Sleeve in mm ²		0.25 – 2.5
Stranded with Ferrules w/o Plastic Sleeve in mm ²		0.25 – 2.5
Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²		0.5
Stripping Length in Inches (mm)		0.39 (10)

① For ordering information, see Table 70 on Page 85.

② For information on Printed Marking Tag Options, see Page 80.

Derating Curve

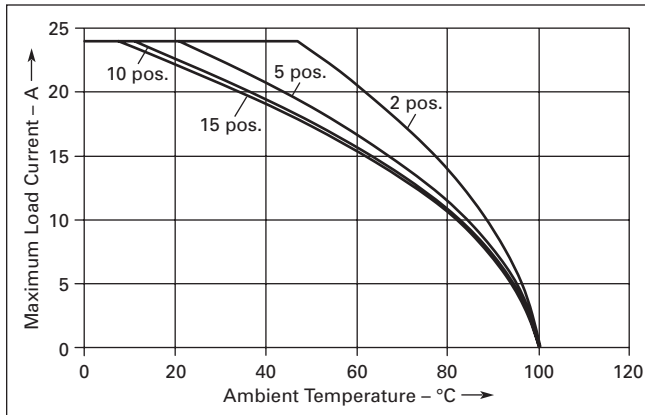


Figure 3. Derating Curve for Pluggable Terminal Blocks

Dimensions

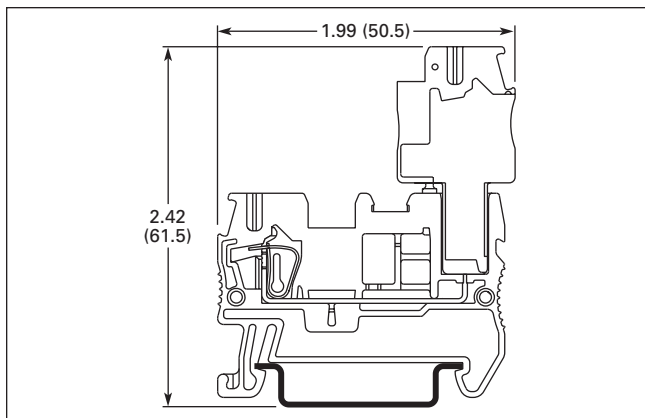


Figure 4. XBPT25P — Approximate Dimensions in Inches (mm)

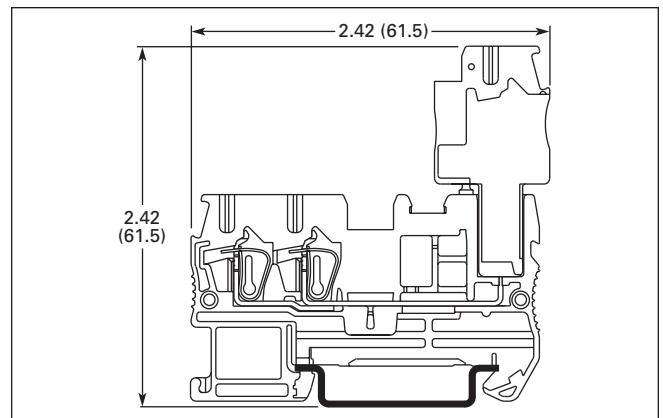


Figure 5. XBPT25PD12 — Approximate Dimensions in Inches (mm)

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IEC Terminal Blocks

Product Description

The superior design of Eaton's Cutler-Hammer Insulation Displacement Connection (IDC) technology terminal blocks reduces wiring installation time and labor, especially in high-volume applications. IDC terminal blocks are suited for applications in automated equipment and machine tools, packaging and material handling machinery, railway/mass transit systems, petrochemical, and any other application requiring high-volume connections for low-voltage control and signal circuitry where labor cost reduction and ease of assembly is desired. These terminal blocks are designed for long-term use under demanding conditions.

The XBQT Series allows for wire to be connected without any prior stripping. The quick connection provides up to 60% reduction in wiring time. One turn of a standard screwdriver results in a simple, fast and reliable connection.

Application Description

The XBQT is operated with a standard screwdriver. The switching states are clearly signaled by engagement points in the start and end positions. Solid and stranded wires of 0.25 to 2.5 mm² can be wired without the use of ferules. Stripping the wire is not required — the wire's insulation is cut open when it is properly connected. The wire is securely placed in the end position where it makes large-area, gas-tight contact. Connections are made in seconds!



*Insulation Displacement
Connection*

Features

- Quick connection capability
- Global acceptance
- 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
- ATEX approval (Eex e applications)

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

Insulation Displacement Connection — Single Level

Product Description

The XBQT IDC terminal block has the fastest connection time in a compact design. The space-saving front connection design offers additional space for wiring between the cable ducts. The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks. The XBQT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact which meets all requirements of IEC 60-947-7-2.



XBQT15



XBQT25

Product Selection

Table 28. Insulation Displacement Connection — Single Level Terminal Blocks Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 16 AWG / 1.5 mm ² 800 / 17.5 / 24-16 550 / 16 / 24-16 600 / 10 / 24-16			6.2 mm 14 AWG / 2.5 mm ² 800 / 24 / 20-14 — 600 / 15 / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

IDC Terminal Block — Single Level	Gray	—	XBQT15	1.20	50	XBQT25	1.30	50
	Blue	—	XBQT15BU	1.20	50	XBQT25BU	1.30	50

Accessories

End Cover	Gray	—	XBACQT15	0.61	10	XBACQT25	0.61	10
Partition Plate			XBATQT25	0.49	10	XBATQT25	0.49	10
Plug-In Bridge	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10
Test Adapter			XBATSPAI4	11.10	10	XBATSPAI4	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ③	0.62	10	XBMZBF6 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 2.31 (58.8) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)	0.24 (6.2) / 2.46 (62.6) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	17.5 / 1.5 8 / 3 III / I	24 / 2.5 8 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)	PVC / PE 2.5 2.5 20-14 (—)
Repeated Connections Minimum 100x in mm ²	0.25 – 1.5	0.5 – 2.5

① EU type — examination certificate number: KEMA 05ATEX2157 U (XBQT15), KEMA 05ATEX2160 U (XBQT25).

② For ordering information, see Table 70 on Page 85.

③ For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Single Level

XBQT15PE

XBQT25PE
Table 28. Insulation Displacement Connection — Single Level Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size Connection Data in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 16 AWG / 1.5 mm ² — / — / 24-16 — / — / 24-16 — / — / 24-16			6.2 mm 14 AWG / 2.5 mm ² — / — / 20-14 — — / — / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

IDC Ground Block — Single Level	Green/ Yellow	—	XBQT15PE	3.75	50	XBQT25PE	3.95	50
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Accessories

End Cover	Gray	—	XBACQT15	0.61	10	XBACQT25	0.61	10
Partition Plate			XBATQT25	0.49	10	XBATQT25	0.49	10
Plug-In Bridge	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ③	0.62	10	XBMZBF6 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 2.31 (58.8) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)	0.24 (6.2) / 2.46 (62.6) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	— 8 / 3 III / I	— 8 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)	PVC / PE 2.5 2.5 24-14 (—)
Repeated Connections Minimum 100x in mm ²	0.25 – 1.5	0.5 – 2.5

① EU type — examination certificate number: KEMA 05ATEX2157 U (XBQT15PE), KEMA 05ATEX2160 U (XBQT25PE).

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Insulation Displacement Connection — Multi-Conductor

Product Description

The XBQT IDC terminal block has the fastest connection time in a compact design. The space-saving front connection design offers additional space for wiring between the cable ducts. The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks. The XBQT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact which meets all requirements of IEC 60-947-7-2.



XBQT15D12



XBQT25D12

Product Selection

Table 29. Insulation Displacement Connection — Multi-Conductor Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 16 AWG / 1.5 mm ² 800 / 17.5 / 24-16 550 / 16 / 24-16 600 / 10 / 24-16			6.2 mm 14 AWG / 2.5 mm ² 800 / 24 / 20-14 — 600 / 15 / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
IDC Terminal Block — Multi-Conductor	Gray	—	XBQT15D12	1.55	50	XBQT25D12	1.70	50
	Blue	—	XBQT15D12BU	1.55	50	XBQT25D12BU	1.70	50
Accessories								
End Cover	Gray	—	XBACQT15D12	0.62	10	XBACQT25D12	0.62	10
End Cover Segment	Gray	—	XBASQT15	0.42	10	XBASQT25	0.42	10
Partition Plate			XBATQTD12	0.63	10	XBATQTD12	0.63	10
Plug-In Bridge	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ③	0.62	10	XBMZBF6 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 3.01 (76.4) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)	0.24 (6.2) / 3.25 (82.5) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	17.5 / 1.5 8 / 3 III / I	24 / 2.5 8 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)	PVC / PE 2.5 2.5 20-14 (—)
Repeated Connections Minimum 100x in mm ²	0.25 – 1.5	0.5 – 2.5

① EU type — examination certificate number: KEMA 05ATEX2157 U (XBQT15D12), KEMA 05ATEX2160 U (XBQT25D12).

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Multi-Conductor

XBQT15D12PE

XBQT25D12PE
Table 29. Insulation Displacement Connection — Multi-Conductor Product Selection (Continued)

Terminal Width Maximum Wire Size Connection Data in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 16 AWG / 1.5 mm ² — / — / 24-16 — / — / 24-16 — / — / 24-16			6.2 mm 14 AWG / 2.5 mm ² — / — / 20-14 — — / — / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

IDC Ground Block — Multi-Conductor	Green/ Yellow	—	XBQT15D12PE	4.65	50	XBQT25D12PE	4.85	50
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Accessories

End Cover	Gray	—	XBACQT15D12	0.62	10	XBACQT25D12	0.62	10
End Cover Segment	Gray	—	XBASQT15	0.42	10	XBASQT25	0.42	10
Partition Plate			XBATQTD12	0.63	10	XBATQTD12	0.63	10
Plug-In Bridge	Red	2	XBAFBS25	0.50	10	XBAFBS26	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS36	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS56	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS106	4.05	10
		50	XBAFBS505	18.40	10	XBAFBS506	23.20	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ③	0.62	10	XBMZBF6 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB6 ③	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions								
Width / Length / Cover Width in Inches (mm)			0.20 (5.2) / 3.01 (76.4) / 0.09 (2.2)			0.20 (5.2) / 3.25 (82.5) / 0.09 (2.2)		
Height for 35 x 7.5 / 35 x 15 in Inches (mm)			1.55 (39.3) / 1.84 (46.8)			1.69 (42.8) / 1.98 (50.3)		
Technical Data in Accordance with IEC								
Maximum Load Current in A / Cross-Section in mm ²			—			—		
Rated Surge Voltage in kV / Contamination Class			8 / 3			8 / 3		
Surge Voltage Category / Insulating Material Group			III / I			III / I		
Connection Cross-Section								
Core Insulation			PVC / PE			PVC / PE		
Single/Multiple/Fine Strand in mm ²			1.5			2.5		
Halogen-Free in mm ²			1.5			2.5		
Fine Strand/Superfine Strand in AWG (mm ²)			24-16 (0.25 – 0.34)			20-14 (—)		
Repeated Connections Minimum 100x in mm ²			0.25 – 1.5			0.5 – 2.5		

① EU type — examination certificate number: KEMA 05ATEX2157 U (XBQT15D12PE), KEMA 05ATEX2160 U (XBQT25D12PE).

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Multi-Conductor



XBQT15D22



XBQT15D22PE

Table 29. Insulation Displacement Connection — Multi-Conductor Product Selection (Continued)

Terminal Width Maximum Wire Size Connection Data in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 16 AWG / 1.5 mm ² 800 / 17.5 / 24-16 550 / 16 / 24-16 600 / 10 / 24-16			5.2 mm 16 AWG / 1.5 mm ² — / — / 24-16 — / — / 24-16 — / — / 24-16		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
IDC Terminal Block — Multi-Conductor	Gray Blue	— —	XBQT15D22 XBQT15D22BU	2.35 2.35	50 50	— —	— —	— —
IDC Ground Block — Multi-Conductor	Green/ Yellow	—	—	—	—	XBQT15D22PE	5.60	50
Accessories								
End Cover	Gray	—	XBACQT15D22	0.63	10	XBACQT15D22	0.63	10
End Cover Segment	Gray	—	XBASQT15	0.42	10	XBASQT15	0.42	10
Partition Plate			XBATQTD22	0.67	10	XBATQTD22	0.67	10
Plug-In Bridge	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug	Red	—	XBATSPS5	10.70	10	XBATSPS5	10.70	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ③	0.62	10	XBMZBF5 ③	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ③	0.67	10	XBMZB5 ③	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 3.70 (94.0) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)	0.20 (5.2) / 3.70 (94.0) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	17.5 / 1.5 8 / 3 III / I	— 8 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)
Repeated Connections Minimum 100x in mm ²	0.25 – 1.5	0.25 – 1.5

① EU type — examination certificate number: KEMA 05ATEX2157 U.

② For ordering information, see Table 70 on Page 85.

③ For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Double Level
Insulation Displacement Connection — Double Level
Product Description

The XBQTT IDC terminal block has the fastest connection time in a compact design. The space-saving front connection design offers additional space for wiring between the cable ducts. The double bridge shaft, found in each level, can accommodate individual chain bridging and step-down bridging from other terminal blocks. The XBQTT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact which meets all requirements of IEC 60-947-7-2.


XBQTT15

XBQTT15PE
Product Selection
Table 30. Insulation Displacement Connection — Double Level Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 16 AWG / 1.5 mm ² 800 / 17.5 / 24-16 420 / 15 / 24-16 600 / 10 / 24-16			5.2 mm 16 AWG / 1.5 mm ² — / — / 24-16 — / — / 24-16 — / — / 24-16		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

IDC Terminal Block — Double Level	Gray Blue	—	XBQTT15 XBQTT15BU	3.35 3.35	50 50	— —	— —	— —
IDC Ground Block — Double Level	Green/ Yellow	—	—	—	—	XBQTT15PE	7.25	50

Accessories

End Cover	Gray	—	XBACQTT15	0.65	10	XBACQTT15	0.65	10
Partition Plate			XBATQTT15	0.68	10	XBATQTT15	0.68	10
Plug-In Bridge	Red	2 3 5 10 20	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—	XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS5	10.70	10
Blank Marker Strip	White	—	XBMZBF5 ③	0.62	10	XBMZBF5 ③	0.62	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)			0.20 (5.2) / 3.92 (99.6) / 0.09 (2.2) 1.96 (49.9) / 2.26 (57.4)			0.20 (5.2) / 3.92 (99.6) / 0.09 (2.2) 1.96 (49.9) / 2.26 (57.4)		
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group			17.5 / 1.5 6 / 3 III / I			— 6 / 3 III / I		
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)			PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)			PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)		
Repeated Connections Minimum 100x in mm ²			0.25 – 1.5			0.25 – 1.5		

① EU type — examination certificate number: KEMA 05ATEX2157 U.

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Insulation Displacement Connection Fuse Terminal Blocks

Product Description

The XBQT lever-type fuse terminal blocks perform two main functions. It is a carrier for a 5 x 20 mm cartridge fuse insert and can also allow for potential distribution via the double bridge shaft. This means that two potentials can be carried separately along side each other. Versions with light indication (AC and DC voltage) are available to signal a triggered fuse.



XBQT25FBE

Product Selection

Table 31. Insulation Displacement Connection Fuse Terminal Blocks Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 14 AWG / 2.5 mm ² ① / 6.3 / 20-14 300 / 15 / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

IDC Fuse Terminal Block	Black	—	XBQT25FBE	10.30	50
IDC Fuse Terminal Block With LED 12 – 30V, 1 – 2.5 mA With LED 30 – 60V, 0.8 – 2.0 mA With LED 110 – 250, 0.5 – 2.5 mA	Black	—	XBQT25FBEL24 XBQT25FBEL60 XBQT25FBEL250	14.50 14.50 14.50	50 50 50

Accessories

End Cover	Gray	—	XBACQT25D12	0.62	10
Partition Plate			XBATQTD12	0.63	10
Plug-In Bridge	Red	2 3 5 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106	0.50 0.99 1.95 4.05	10 10 10 10
Test Adapter			XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ②	②	—
Modular Test Plug			XBATSPS5	10.70	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF6 ③	0.62	10
Blank Marker Strip Lever Labeling	White	—	XBMZB5 ③	0.67	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB6 ③	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.24 (6.2) / 3.25 (82.5) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	6.3 / 2.5 4 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 2.5 2.5 24-14 (—)
Repeated Connections Minimum 100x in mm ²	0.5 – 2.5

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

② For ordering information, see **Table 70** on **Page 85**.

③ For information on Printed Marking Tag Options, see **Page 80**.

Insulation Displacement Connection Disconnect and Component Terminal Blocks

Product Description

The **XB** Series includes application specific terminal blocks like disconnect blocks. The knife disconnect terminal block (XBQT15MT) has a fitted knife. The XBQT15TG can accommodate component plugs for resistors or capacitors and fuse plugs for 5 x 20 mm fuses with or without a light indicator for signaling a triggered fuse. Both terminal blocks have three bridge shafts — two in the standard positions and one on the other side of the disconnect point.



XBQT15MT
Knife Disconnect



XBQT15TG
Disconnect

Product Selection

Table 32. Insulation Displacement Connection Disconnect and Component Terminal Blocks Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 16 AWG / 1.5 mm ² 400 / 16 / 24-16 600 / 10 / 24-16			5.2 mm 16 AWG / 1.5 mm ² 400 / 16 / 24-16 600 / 10 / 24-16		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
IDC Disconnect and Component Terminal Block	Gray	—	XBQT15MT	4.65	50	XBQT15TG	2.90	50
Accessories								
End Cover	Gray	—	XBACQT15D12	0.62	10	XBACQT15D12	0.62	10
End Cover Segment	Gray	—	XBASQT15	0.42	10	XBASQT15	0.42	10
Partition Plate			XBATQTD12	0.63	10	XBATQTD12	0.63	10
Plug-In Bridge	Red	2	XBAFBS25	0.50	10	XBAFBS25	0.50	10
		3	XBAFBS35	0.99	10	XBAFBS35	0.99	10
		5	XBAFBS55	1.95	10	XBAFBS55	1.95	10
		10	XBAFBS105	4.05	10	XBAFBS105	4.05	10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ①	①	—	XBATSMPS- ①	①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS5	10.70	10
Component Plug	Gray	—	—	—	—	XBPCO	3.65	10
Fuse Plug	Black	—	—	—	—	XBPFU	3.65	10
Fuse Plug with light indicator for 12 – 30V	Black	—	—	—	—	XBPFUL24	10.30	10
Fuse Plug with light indicator for 110 – 250V	Black	—	—	—	—	XBPFUL250	10.30	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ②	0.62	10	XBMZBF5 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10	XBMZB5 ②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)			0.20 (5.2) / 3.01 (76.4) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)			0.20 (5.2) / 3.01 (76.4) / 0.09 (2.2) 1.55 (39.3) / 1.84 (46.8)		
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group			16 / 1.5 6 / 3 III / I			16 / 1.5 6 / 3 III / I		
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)			PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)			PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)		
Repeated Connections Minimum 100x in mm ²			0.25 – 1.5			0.25 – 1.5		

① For ordering information, see **Table 70** on **Page 85**.

② For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Disconnect and Component Terminal Blocks

XBQT25TG
Disconnect**Table 32. Insulation Displacement Connection Disconnect and Component Terminal Blocks Product Selection (Continued)**

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			6.2 mm 14 AWG / 2.5 mm ² 400 / 16 / 20-14 300 / 10 / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

IDC Disconnect and Components Terminal Block	Gray	—	XBQT25TG	3.00	50
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Accessories

End Cover	Gray	—	XBACQT25D12	0.62	10
End Cover Segment	Gray	—	XBASQT25	0.42	10
Partition Plate			XBATQTD12	0.63	10
Plug-In Bridge	Red	2 3 5 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106	0.50 0.99 1.95 4.05	10 10 10 10
Test Adapter			XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^①	^①	—
Modular Test Plug			XBATSPS5	10.70	10
Component Plug	Gray	—	XBPCO	3.65	10
Fuse Plug	Black	—	XBPFU	3.65	—
Blank Marker Strip Center and External Marking	White	—	XBMZBF6 ^②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB6 ^②	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.24 (6.2) / 3.25 (82.5) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	16 / 2.5 6 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 2.5 2.5 20-14 (—)
Repeated Connections Minimum 100x in mm ²	0.5 – 2.5

^① For ordering information, see **Table 70** on **Page 85**.^② For information on Printed Marking Tag Options, see **Page 80**.

Hybrid Terminal Blocks
Insulation Displacement Connection Hybrid Terminal Blocks
Product Description

The XBQT hybrid terminal block offers the best of both worlds. One side offers the time-saving advantage of our insulation displacement connection technology while the other side offers a universal screw connection. Use the IDC side on the internal (factory) control cabinet side and the screw connection on the end customer (field) side. Ground terminal blocks of the same shape are also available.


XBQU15

XBQU25
Product Selection
Table 33. Insulation Displacement Connection Hybrid Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC Screw Connection in V / A / AWG IEC IDC Connection in V / A / AWG UL-cUL Screw Connection in V / A / AWG UL-cUL IDC Connection in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 800 / 17.5 / 26-12 800 / 17.5 / 24-16 600 / 10 / 26-12 600 / 10 / 24-16			6.2 mm 10 AWG / 4 mm ² 800 / 24 / 26-10 800 / 24 / 20-14 600 / 15 / 26-10 600 / 15 / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
IDC Hybrid Terminal Block	Gray	—	XBQU15	1.25	50	XBQU25	1.35	50
Accessories								
End Cover	Gray	—	XBACQU15	0.62	10	XBACQU25	0.62	10
Partition Plate			XBATQT25	0.49	10	XBATQT25	0.49	10
Plug-In Bridge	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ①	①	—	XBATSMPS- ①	①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10	XBMZB6 ②	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 2.31 (58.8) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)	0.24 (6.2) / 2.46 (62.6) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	17.5 / 1.5 8 / 3 III / I	24 / 2.5 8 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)	PVC / PE 2.5 2.5 20-14 (—)
Repeated Connections Minimum 100x in mm ²	0.25 – 1.5	0.5 – 2.5
Connection Capacity — Screw Connection Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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 Stranded with Ferrule w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 0.5 – 1.5	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 0.5 – 2.5
Stripping Length in Inches (mm)	0.35 (9)	0.35 (9)
Thread / Torque in in-lb (Nm)	M3 / 5.3 – 7.1 (0.6 – 0.8)	M3 / 5.3 – 7.1 (0.6 – 0.8)

① For ordering information, see **Table 70** on **Page 85**.

② For information on Printed Marking Tag Options, see **Page 80**.

Discount Symbol **1CD1**

Hybrid Terminal Blocks



XBQU15PE



XBQU25PE

Table 33. Insulation Displacement Connection Hybrid Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC Screw Connection in V / A / AWG IEC IDC Connection in V / A / AWG UL-cUL Screw Connection in V / A / AWG UL-cUL IDC Connection in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 26-12 — / — / 24-16 — / — / 26-12 — / — / 24-16			6.2 mm 10 AWG / 4 mm ² — / — / 26-10 — / — / 20-14 — / — / 26-10 — / — / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
IDC Hybrid Ground Block	Gray	—	XBQU15PE	4.30	50	XBQU25PE	4.55	50
Accessories								
End Cover	Gray	—	XBACQU15	0.62	10	XBACQU25	0.62	10
Partition Plate			XBATQT25	0.49	10	XBATQT25	0.49	10
Plug-In Bridge	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^①	^①	—	XBATSMPS- ^①	^①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ^②	0.62	10	XBMZBF6 ^②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ^②	0.67	10	XBMZB6 ^②	0.67	10
DIN Rail								
35 mm x 7.5 mm x 2m (slotted)			XBANS3575P	12.40	25	XBANS3575P	12.40	25
35 mm x 7.5 mm x 2m (solid)			XBANS3575U	12.40	25	XBANS3575U	12.40	25
35 mm x 15 mm x 2m (slotted)			XBANS3515P	22.70	25	XBANS3515P	22.70	25
35 mm x 15 mm x 2m (solid)			XBANS3515U	22.70	25	XBANS3515U	22.70	25
End Stop								
One-Screw Mounted			XBAES35C	1.25	50	XBAES35C	1.25	50
Three-Screw Mounted			XBAES35T	0.93	50	XBAES35T	0.93	50
Snap-On			XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 2.31 (58.8) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)	0.24 (6.2) / 2.46 (62.6) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	— 8 / 3 III / I	— 8 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)	PVC / PE 2.5 2.5 20-14 (—)
Repeated Connections Minimum 100x in mm ²	0.25 – 1.5	0.5 – 2.5
Connection Capacity — Screw Connection Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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 Stranded with Ferrule w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 0.5 – 1.5	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 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)

① For ordering information, see Table 70 on Page 85.

② For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

Hybrid Terminal Blocks



XBQU15D12



XBQU25D12

Table 33. Insulation Displacement Connection Hybrid Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC Screw Connection in V / A / AWG IEC IDC Connection in V / A / AWG UL-cUL Screw Connection in V / A / AWG UL-cUL IDC Connection in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 800 / 17.5 / 26-12 800 / 17.5 / 24-16 800 / 10 / 26-12 800 / 10 / 24-16			6.2 mm 10 AWG / 4 mm ² 800 / 24 / 26-10 800 / 24 / 20-14 600 / 15 / 26-10 600 / 15 / 20-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack
Product Selection								
IDC Hybrid Terminal Block	Gray	—	XBQU15D12	1.45	50	XBQU25D12	1.70	50
Accessories								
End Cover	Gray	—	XBACQU15D12	0.64	10	XBACQU25D12	0.64	10
End Cover Segment	Gray	—	XBASQT15	0.42	10	XBASQT25	0.42	10
Partition Plate			XBATQTD12	0.63	10	XBATQTD12	0.63	10
Plug-In Bridge	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.50 0.99 1.95 4.05 18.40	10 10 10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.50 0.99 1.95 4.05 23.20	10 10 10 10 10
Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ①	①	—	XBATSMPS- ①	①	—
Modular Test Plug			XBATSPS5	10.70	10	XBATSPS6	10.90	10
Blank Marker Strip Center and External Marking	White	—	XBMZBF5 ②	0.62	10	XBMZBF6 ②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB5 ②	0.67	10	XBMZB6 ②	0.67	10
DIN Rail 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.40 12.40 22.70 22.70	25 25 25 25
End Stop One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50	XBAES35C XBAES35T XBAES35N	1.25 0.93 0.78	50 50 50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 3.01 (76.4) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)	0.24 (6.2) / 3.25 (82.5) / 0.09 (2.2) 1.69 (42.8) / 1.98 (50.3)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	17.5 / 1.5 8 / 3 III / I	24 / 2.5 8 / 3 III / I
Connection Cross-Section Core Insulation Single/Multiple/Fine Strand in mm ² Halogen-Free in mm ² Fine Strand/Superfine Strand in AWG (mm ²)	PVC / PE 1.5 1.5 24-16 (0.25 – 0.34)	PVC / PE 2.5 2.5 20-14 (—)
Repeated Connections Minimum 100x in mm ²	0.25 – 1.5	0.5 – 2.5
Connection Capacity — Screw Connection Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm ²	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 Stranded with Ferrule w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 0.5 – 1.5	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 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)

① For ordering information, see Table 70 on Page 85.

② For information on Printed Marking Tag Options, see Page 80.

Discount Symbol 1CD1

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Miniature Terminal Blocks

Mini Spring Cage Terminal Blocks

Product Description

The **XB** miniature terminal blocks have a connection cross-section from 1.5 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 block. 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.



XBMPK15



XBMPK15PE

Product Selection

Table 34. Mini Spring Cage Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG IEC 60 947-7-2 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 14 AWG / 1.5 mm ² 800 / 24 / 26-14 — 600 / 15 / 26-14			5.2 mm 14 AWG / 1.5 mm ² — — / — / 26-14 — / — / 26-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Mini Spring Cage Terminal Block	Gray Blue	— —	XBMPK15 XBMPK15BU	1.25 1.25	50 50	— —	— —	— —
Mini Spring Cage Ground Block	Green/ Yellow	—	—	—	—	XBMPK15PE	4.00	50

Accessories

End Cover	Gray	—	XBACMPK15	0.32	10	XBACMPK15	0.32	10
Fixed Bridge		10	XBAFBR25N	1.45	10	—	—	—
Separating Plate			XBATMPKK15	0.93	10	—	—	—
Blank Marker Strip	White	—	XBMBZF5 ①	0.62	10	XBMBZF5 ①	0.62	10
DIN Rail — 15 mm x 5.5 mm x 2 m (slotted)	—	—	XBANS15P	11.40	25	XBANS15P	11.40	25
End Stop — Screw Mount	Gray	—	XBAES35C	1.25	50	XBAES35C	1.25	50
Snap On	Gray	—	XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 15 in Inches (mm)	0.20 (5.2) / 1.57 (40.0) / 0.04 (1.1) 1.36 (34.5)	0.20 (5.2) / 1.57 (40.0) / 0.04 (1.1) 1.36 (34.5)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	24 / 2.5 8 / 3 III / I	— 8 / 3 III / I
Connection Capacity Stranded with Ferrule w/ Plastic Sleeve in mm ² Stranded with Ferrule w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.25 – 1.5 0.25 – 1.5 —	0.25 – 1.5 0.25 – 1.5 —
Stripping Length in Inches (mm)	0.35 (9)	0.35 (9)

① For information on Printed Marking Tag Options, see Page 80.

Mini Spring Cage

XBMPKK15
Table 34. Mini Spring Cage Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 14 AWG / 1.5 mm ² 500 / 20 / 26-14 600 / 15 / 26-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Mini Spring Cage Terminal Block — Double Level	Gray	—	XBMPKK15	3.00	50
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Accessories

End Cover	Gray	—	XBACMPKK15	0.78	10
Fixed Bridge		2	XBAFBR25N	1.45	10
Separating Plate			XBATMPKK15	0.93	10
Blank Marker Strip	White	—	XBMZBF5 ①	0.62	10
DIN Rail — 15 mm x 5.5 mm x 2 m (slotted)	—	—	XBANS15P	11.40	25
End Stop — Screw Mount	Gray	—	XBAES35C	1.25	50
Snap On	Gray	—	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 15 / 35 x 7.5 / 35 x 15 in Inches (mm)		0.20 (5.2) / 3.35 (85.0) / 0.04 (1.0) 1.65 (42.0) / 1.67 (42.5) / 1.97 (50.0)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group		20 / 2.5 6 / 3 III / I
Connection Capacity Stranded with Ferrule w/ Plastic Sleeve in mm ² Stranded with Ferrule w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²		0.25 – 1.5 0.25 – 1.5 —
Stripping Length in Inches (mm)		0.35 (9)

① For information on Printed Marking Tag Options, see **Page 80**.

Mini Screw Connection

Mini Screw Connection Terminal Blocks



XB Muk25



XB Muk4

Product Selection

Table 35. Mini Screw Connection Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 ① in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² 400 / 32 / 24-12 275 / 28/21 / 24-12 600 / 20 / 28-12			6.2 mm 10 AWG / 4 mm ² 500 / 41 / 24-10 — / — / — 600 / 10 / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Mini Screw Connection Terminal Block	Gray	—	XB Muk25	1.60	50	XB Muk4	1.70	50
	Blue	—	XB Muk25BU	1.60	50	XB Muk4BU	1.70	50

Accessories

End Cover	Gray	—	XBACMU254	0.61	10	XBACMU254	0.61	10
	Blue	—	XBACMU254B	0.61	10	XBACMU254B	0.61	10
Partition Plate			XBATMU254	0.93	10	XBATMU254	0.93	10
Fixed Bridge	—	10	XB AFBR105N	6.15	10	—	—	—
Separating Plate			XBATMPKK15	0.93	10	XBATMPKK15	0.93	10
Blank Marker Strip (strip of 10)	White	—	XB MZB5 ②	0.67	10	XB MZB6 ②	0.67	10
DIN Rail — 15 mm x 5.5 mm x 2 m (slotted)	—	—	XBANS15P	11.40	25	XBANS15P	11.40	25
End Stop — Screw Mount	Gray	—	XBAES35C	1.25	50	XBAES35C	1.25	50
Snap On	Gray	—	XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length / Cover Width in Inches (mm) Height for 15 in Inches (mm)	0.20 (5.2) / 1.10 (28.0) / 0.04 (1.0) 1.26 (32.0)	0.24 (6.2) / 1.10 (28.0) / 0.04 (1.0) 1.26 (32.0)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Maximum Cross-Section with Insertion Bridge (Solid / Stranded) in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	32 / 4 2.5 / 2.5 6 / 3 III / I	41 / 6 4 / 4 6 / 3 III / I
Connection Capacity Stranded with Ferrule w/ Plastic Sleeve in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ²	0.25 – 1.5 0.25 – 2.5	0.25 – 2.5 0.25 – 4
Multi-Conductor Connection (same cross-section) Solid / Stranded in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.2 – 1.0 / 0.2 – 1.5 0.25 – 1.5 0.5 – 1.0	0.2 – 1.5 / 0.2 – 1.5 0.25 – 1.5 0.5 – 2.5
Stripping Length in Inches (mm)	0.31 (8)	0.31 (8)
Thread	M3	M3
Torque in in-lb (Nm)	5.3 – 7.1 (0.6 – 0.8)	4.4 – 5.3 (0.5 – 0.6)

① EU type — examination certificate number: KEMA 05ATEX2169 U (XB Muk25).

② For information on Printed Marking Tag Options, see Page 80.

Mini Screw Connection



XBMUK25PE



XBMUK4PE

Table 35. Mini Screw Connection Terminal Blocks Product Selection (Continued)

Terminal Width Maximum Wire Size IEC 60 947-7-2 in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm ² — / — / 24-12 — / — / 30-12			6.2 mm 10 AWG / 2.4 mm ² — / — / 24-10 — / — / 26-14		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Mini Screw Connection Ground Block	Green/ Yellow	—	XBMUK25PE	4.15	50	XBMUK4PE	4.40	50
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Accessories

Blank Marker Strip (strip of 10)	White	—	XBMZB5 ①	0.67	10	XBMZB6 ①	0.67	10
DIN Rail — 15 mm x 5.5 mm x 2 m (slotted)	—	—	XBANS15P	11.40	25	XBANS15P	11.40	25
End Stop — Screw Mount Snap On	Gray	—	XBAES35C	1.25	50	XBAES35C	1.25	50
	Gray	—	XBAES35N	0.78	50	XBAES35N	0.78	50

Technical Data

Dimensions Width / Length in Inches (mm) Height for 15 in Inches (mm)	0.20 (5.2) / 1.10 (28.0) 1.24 (31.5)	0.24 (6.2) / 1.10 (28.0) 1.26 (32.0)
Technical Data in Accordance with IEC Maximum Load Current in A / Cross-Section in mm ² Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	— 6 / 3 III / I	— 6 / 3 III / I
Connection Capacity Stranded with Ferrule w/ Plastic Sleeve in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ²	0.25 – 1.5 0.25 – 2.5	0.25 – 2.5 0.25 – 4
Multi-Conductor Connection (same cross-section) Solid / Stranded in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.2 – 1.0 / 0.2 – 1.5 0.25 – 1.5 0.5 – 1.5	0.2 – 1.5 / 0.2 – 1.5 0.25 – 1.5 0.5 – 2.5
Stripping Length in Inches (mm)	0.31 (8)	0.31 (8)
Thread	M3	M3
Torque in in-lb (Nm)	5.3 – 7.1 (0.6 – 0.8)	5.3 – 7.1 (0.6 – 0.8)

① For information on Printed Marking Tag Options, see **Page 80**.

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Thermal Miniature Circuit Breaker

Miniature Circuit Breakers



XBAT

Product Description

The thermal miniature circuit breaker can be switched back on again, has a compact design, and is available in 10 finely graded steps for nominal currents from 0.1 to 10A.

Standards and Certifications

- UL and cUL recognized
- UL1077 — File No. E301915
- CE approved

Product Description

The new **XB** Series thermal miniature circuit breaker offers convenient over-load protection. This space-saving single-pole circuit breaker, available up to 10 Amps, can be inserted into a screw connection fuse terminal block, XBUK6FSI or a spring cage fuse terminal block, XBPT4FSI, which is available with or without light indication. The XBATCP combines the reclosing capability of a circuit breaker with the over-load protection of a fuse. The integrated switching function makes it possible to switch the circuit breaker back on immediately, guaranteeing system availability. The device can also be used for switching purposes, as an on/off switch. The plug-in design allows for quick and efficient replacement.

Table 36. Nominal Currents and Internal Resistances

Nominal Current (A)	Internal Resistance (3/4)
0.25	14
0.5	3.4
1.0	0.9
2.0	0.25
3.0	0.11
4.0	0.07
6.0	≤ 0.05
8.0	≤ 0.05
10.0	≤ 0.05

Product Selection

Table 37. Miniature Circuit Breakers Product Selection

Connection Data in V AC / V DC			250 / 65		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack
Product Selection					
Thermal Miniature Circuit Breaker					
Nominal Current 0.1A	Black	—	XBATCPT	22.70	20
Nominal Current 0.25A	Black	—	XBATCPQ	22.70	20
Nominal Current 0.5A	Black	—	XBATCPH	22.70	20
Nominal Current 1.0A	Black	—	XBATCP1	22.70	20
Nominal Current 2.0A	Black	—	XBATCP2	22.70	20
Nominal Current 3.0A	Black	—	XBATCP3	22.70	20
Nominal Current 4.0A	Black	—	XBATCP4	22.70	20
Nominal Current 6.0A	Black	—	XBATCP6	22.70	20
Nominal Current 8.0A	Black	—	XBATCP8	22.70	20
Nominal Current 10.0A	Black	—	XBATCP10	22.70	20

Accessories

Blank Marker Strip	White	—	XBMZBF5 ①	0.62	10
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Technical Data

Technical Data in Accordance with IEC		
Nominal Voltage in V AC / V DC		250 / 65
Nominal Current in A		0.25 – 10
Ambient Temperature in °C		-20 – 60
Maximum Power Dissipation		
Rated Surge Voltage in kV / Contamination Class		2.5 / 2
Surge Voltage Category / Insulating Material Group		III / I
Switching Capacity		
Cycles with 1 x I _N (low-induction)		6000
Cycles with 1 x I _N (induction)		3000
Cycles with 2 x I _N (induction)		500
Switching Capacity I_{CN}		
For Nominal Currents of 0.25 – 4A / 6 – 10A		6 x I _N / 8 x I _N
Switching Capacity (UL 1077) AC 250V / DC 65V		2000 / 200

① For information on Printed Marking Tag Options, see **Page 80**.

Flat-Type Fuse Terminal Blocks
Screw Connection Flat-Type Fuse Terminal Blocks
Product Description

The fuse terminal block can be used as a basic terminal block for the XBAT overload miniature circuit breaker (see **Page 69**).


XBUK6FSI
Product Selection
Table 38. Flat-Type Fuse Terminal Blocks Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			8.2 mm 8 AWG / 6 mm ² 250 / — / 24-8 300 / 30 / 26-8			8.2 mm 8 AWG / 6 mm ² 250 / — / 24-8 300 / 30 / 26-8		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Flat-Type Fuse Terminal Block	Black	—	XBUK6FSI	8.25	50	—	—	—
Flat-Type Fuse Terminal Block With LED Red 12V DC, 2.0 mA	Black	—	—	—	—	XBUK6FSIL12	13.70	50
With LED Red 24V DC, 2.0 mA	Black	—	—	—	—	XBUK6FSIL24	13.70	50

Accessories

Blank Marker Strip (strip of 10)	White	—	XBMZB8 ③	0.67	10	XBMZB8 ③	0.67	10
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Technical Data

Dimensions Width / Length in Inches (mm) Height for 32 / 35 x 7.5 / 35 x 15 in Inches (mm)	0.32 (8.2) / 2.91 (74.0) 2.24 (57.0) / 2.05 (52.0) / 2.34 (59.5)	0.32 (8.2) / 2.91 (74.0) 2.24 (57.0) / 2.05 (52.0) / 2.34 (59.5)
Technical Data in Accordance with IEC Fuse Type ISO Maximum Current with Single Arrangement in A	C 30	C 30
Maximum Power Dissipation Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	4 / 3 III / I	4 / 3 III / I
Connection Capacity Stranded with Ferrule w/ Plastic Sleeve in mm ² Stranded with Ferrule w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.25 – 4 0.25 – 6 —	0.25 – 4 0.25 – 6 —
Multi-Conductor Connection (same cross-section) Solid / Stranded in mm ² Stranded with Ferrules w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.2 – 2.5 / 0.2 – 2.5 0.25 – 2.5 0.5 – 4.0	0.2 – 2.5 / 0.2 – 2.5 0.25 – 2.5 0.5 – 4.0
Stripping Length in Inches (mm)	0.39 (10)	0.39 (10)
Thread	M4	M4
Torque in in-lb (Nm)	13.3 – 14.2 (1.5 – 1.6)	13.3 – 14.2 (1.5 – 1.6)

③ For information on Printed Marking Tag Options, see **Page 80**.

Spring Cage Fuse Terminal Blocks

Product Description

Flat-type fuses or the XBAT miniature circuit breaker (see **Page 69**) can be used as the fuse element in these XBPT Spring Cage Fuse Terminal Blocks. Terminal blocks with a light indicator are available for quick error diagnosis.



XBPT4FSI



XBPT4FSIL12

Product Selection

Table 39. Spring Cage Fuse Terminal Blocks Product Selection

Terminal Width Maximum Wire Size Connection Data in V / A / AWG UL-cUL Ratings in V / A / AWG			8.2 mm 10 AWG / 4 mm ² 400 / 30 / 28-10 300 / 30 / 24-10			8.2 mm 10 AWG / 4 mm ² 400 / 30 / 28-10 300 / 30 / 24-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

Product Selection

Spring Cage Fuse Terminal Block	Black	—	XBPT4FSI	6.65	50	—	—	—
Spring Cage Fuse Terminal Block With LED Red 12V DC, 2.0 mA	Black	—	—	—	—	XBPT4FSIL12	12.20	50
With LED Red 24V DC, 2.0 mA	Black	—	—	—	—	XBPT4FSIL24	12.20	50

Accessories

Test Adapter			XBATSPA14	11.10	10	XBATSPA14	11.10	10
2.3 mm Dia. Test Plug			XBATSMPS- ^②	^②	—	XBATSMPS- ^②	^②	—
Modular Test Plug			XBATSPS8	1.10	10	XBATSPS8	1.10	10
Blank Marker Strip External Marking	White	—	XBMZBF8 ^②	0.62	10	XBMZBF8 ^②	0.62	10
Blank Marker Strip Center Labeling (strip of 10)	White	—	XBMZB8 ^②	0.67	10	XBMZB8 ^②	0.67	10

Technical Data

Dimensions Width / Length in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.32 (8.2) / 3.41 (86.5) 1.71 (43.5) / 2.01 (51.0)	0.32 (8.2) / 3.41 (86.5) 1.71 (43.5) / 2.01 (51.0)
Technical Data in Accordance with IEC Fuse Type ISO Maximum Current with Single Arrangement in A	C 30	C 30
Maximum Power Dissipation Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	6 / 3 III / I	6 / 3 III / I
Connection Capacity Stranded with Ferrule w/ Plastic Sleeve in mm ² Stranded with Ferrule w/o Plastic Sleeve in mm ² Stranded with Twin Ferrule w/ Plastic Sleeve in mm ²	0.25 – 4 0.25 – 4 0.5	0.25 – 4 0.25 – 4 0.5
Stripping Length in Inches (mm)	0.39 (10)	0.39 (10)

① For ordering information, see **Table 70** on **Page 85**.

② For information on Printed Marking Tag Options, see **Page 80**.

Time/Current Curve

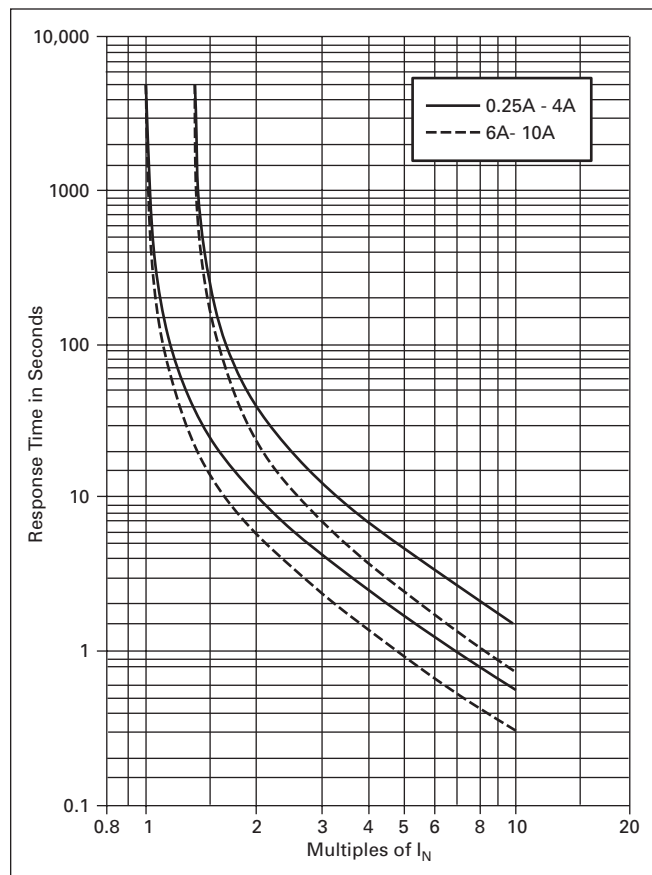


Figure 6. Total Switch-Off Period for Nominal Current, 23°C

Note: When mounted in rows, the nominal current of the devices can only be transmitted at 80% or must be correspondingly over-dimensioned.

Table 40. Temperature Factor

Ambient Temperature	Temperature Factor
-20°C	0.76
-10°C	0.84
0°C	0.91
23°C	1.00
40°C	1.08
50°C	1.16
60°C	1.24

Dimensions

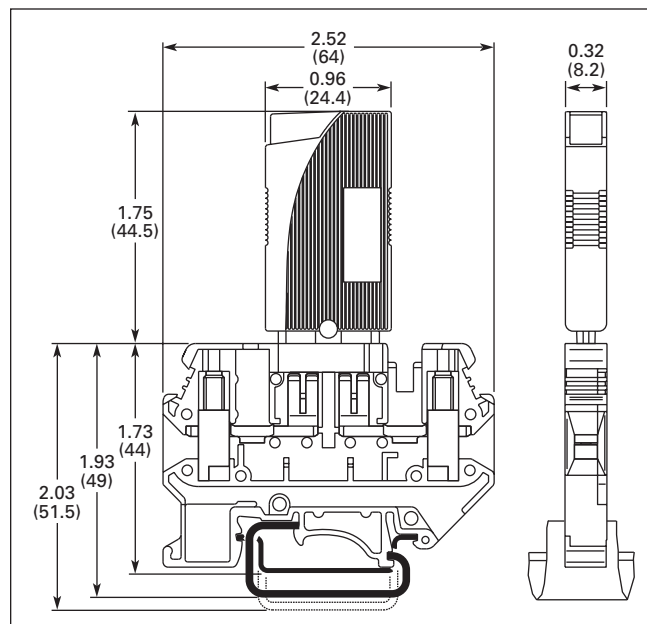


Figure 7. XBUK6FSI with XBAT — Approximate Dimensions in Inches (mm)

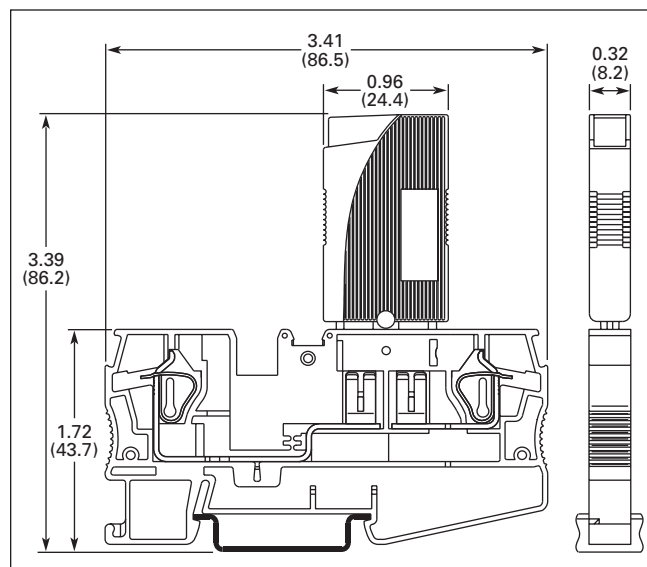


Figure 8. XBPT4FSI with XBAT — Approximate Dimensions in Inches (mm)

Contents

Description	Page
Accessories	
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Angled Mounting Brackets	76
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Hand Tools	79
Marking Accessories	80
Testing Accessories	85
Separating Plates, Covers and Bridges	85

Product Description

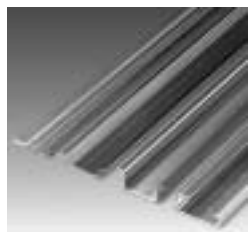
End Stops

The end stop provides an anchor point at each end of the rail assembly by attaching directly to the DIN rail. A wide range of end stop options are available, including those that mount with one or multiple screws and those that do not require screws for mounting. End stops also have a location for marking material to be placed.



DIN Rail

Eaton offers ways for time-saving and secure mounting of components needed for electrical connections. DIN rail provides the basis for the inner design of the control cabinet and ensures a firm hold of the rail-mountable components. Eaton offers a wide range of standard DIN rails sizes and materials, solid or slotted. Or, contact us about custom lengths of pre-cut rail or ordering predrilled rail. The DIN rails are designed in accordance with the European standard EN 60715.



Ferrules

Ferrules are available with or without an insulating sleeve. The plastic insulating sleeve simplifies the fitting of the conductor and the color indicates the size of the cross-section. The closer the connections are, the more reliable the insulation is and the less likely the wires are to splice. Twin ferrules are also available allowing two wires to be easily compressed in one ferrule. Chain bridging, frequently used in industry, becomes easier with twin ferrules.



Hand Tools

Eaton offers an array of hand tools to make it easier to work with our terminal blocks. The XBTCUTSTP tool is recommended for cutting and stripping PVC insulated wires. The ergonomically shaped crimping pliers, XBTCRMP66, result in fatigue-free work by spreading the manual force equally between the six jaws. The XBTDVR screwdrivers have a rotating cap which prevents user discomfort even at high torques and allows rapid rotation. The ergonomically shaped handle further aids the user's comfort. The blade is made from CVM steel, hardened and chrome-plated.



Marking Accessories

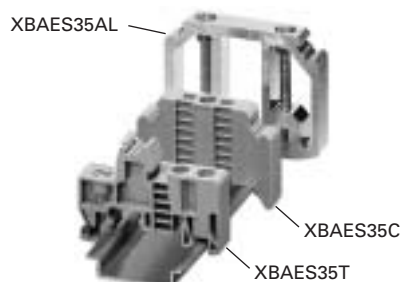
The marking system provides logical and clear identification of the modular terminal blocks and interface modules. The blank marker strip is designed for marking terminal blocks, equipment and smaller modules with marker grooves. The marker strip is available in all common pitches in printed and unprinted versions.



Testing Accessories

The range of test accessories available includes different test plugs, so that an optimum solution can be realized for every application. In addition to pre-assembled test plugs, plugs are also available that can be configured individually to form test adapters.

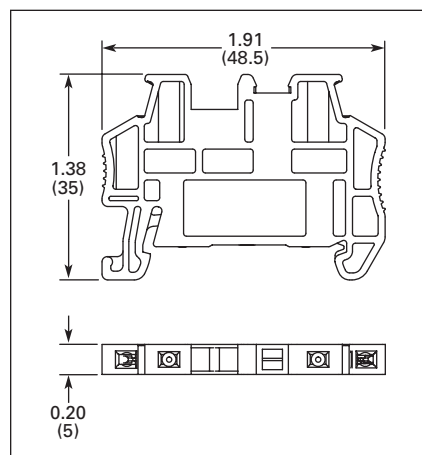
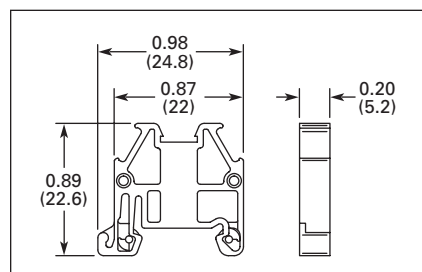


End Stops
End Stops

Snap-On End Stops

Snap-on end stops for 35 mm and 15 mm DIN rails can be fitted with blank marker strips and adjustable terminal strip markers, parking facility for bridges and testing accessories.

Table 41. Snap-On End Stops

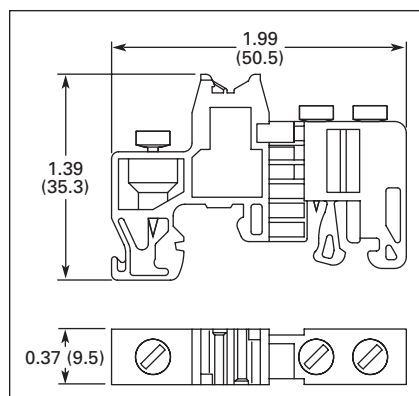
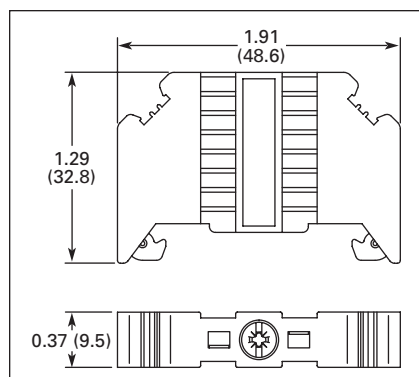
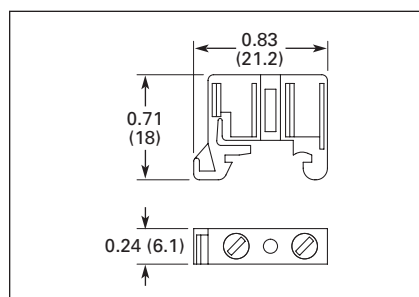
Std. Pack	Size	Catalog Number	Price U.S. \$
50	35 mm	XBAES35N	0.78
50	15 mm	XBAES15N	0.62


Figure 9. XBAES35N Approximate Dimensions in Inches (mm)

Figure 10. XBAES15N Approximate Dimensions in Inches (mm)
Universal End Stops

Screwed on, labeling with blank marker strips and terminal strip markers.

Table 42. Universal End Stops

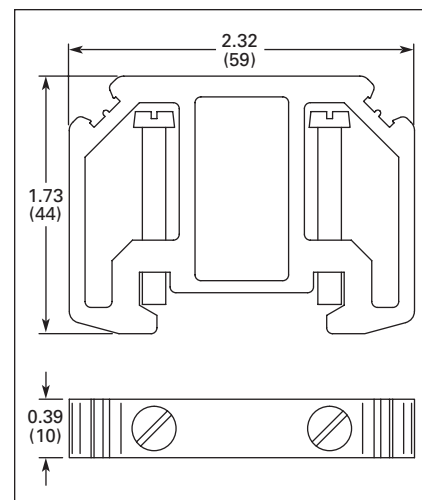
Std. Pack	Size	Catalog Number	Price U.S. \$
50	35 mm	XBAES35T	0.93
50	35 mm	XBAES35C	1.25
50	15 mm	XBAES15C	0.73


Figure 11. XBAES35T Approximate Dimensions in Inches (mm)

Figure 12. XBAES35C Approximate Dimensions in Inches (mm)

Figure 13. XBAES15C Approximate Dimensions in Inches (mm)
Aluminum End Stops

Snaps on, for end support of 50 – 240 mm terminal blocks, labeling with XBMZB10.

Table 43. Aluminum End Stops

Std. Pack	Catalog Number	Price U.S. \$
10	XBAES35AL	6.70


Figure 14. XBAES35AL Approximate Dimensions in Inches (mm)
Table 44. Cross-Reference of Terminal Block Marking, End Stops

Catalog Number	XBMKLM2	XBMGLMA	XBMUBE
XBAES35N	X		
XBAES35T		X	X

Discount Symbol 1CD1

DIN Rails



Perforated and unperforated DIN Rails in accordance with E 60715.

Features

- High dimensional accuracy
- Restricted tolerances
- Double surface tempering, galvanized and chromated
- All 2m in length
- Customization available

Table 45. DIN Rails — 35 x 7.5 mm x 2m

Type	Std. Pack	Catalog Number	Price U.S. \$
Slotted	25	XBANS3575P	12.40
Solid	25	XBANS3575U	12.40

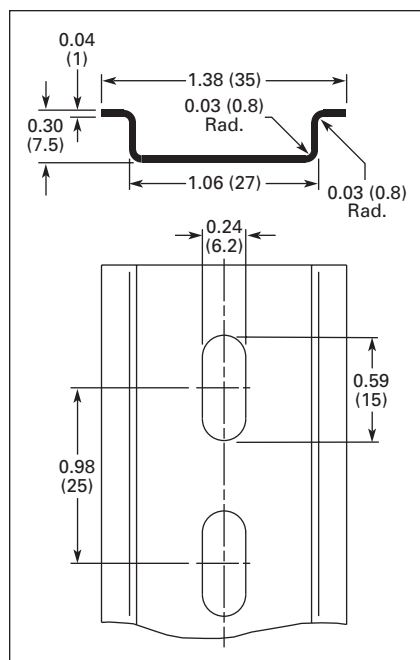


Figure 15. 35 x 7.5 mm DIN Rail Approximate Dimensions in Inches (mm)

Table 46. DIN Rails — 35 x 15 mm x 2m

Type	Std. Pack	Catalog Number	Price U.S. \$
Slotted	25	XBANS3515P	22.70
Solid	25	XBANS3515U	22.70

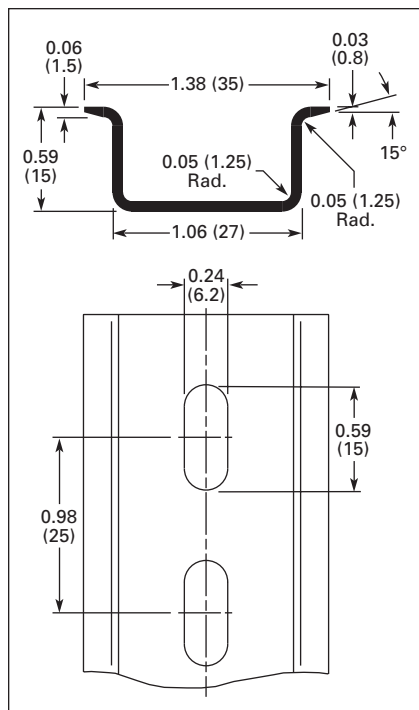


Figure 16. 35 x 15 mm DIN Rail Approximate Dimensions in Inches (mm)

Table 47. Aluminum DIN Rails (Perforated)

Size	Std. Pack	Catalog Number	Price U.S. \$
35/7.5/2m	25	XBANS3575PL	20.60
35/58/2m	6	XBANS35PL	47.50

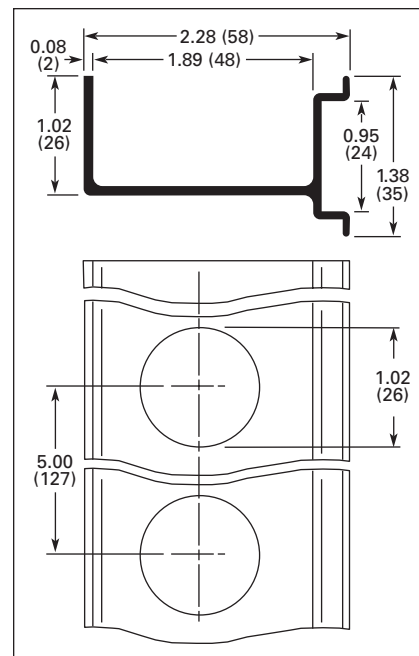


Figure 17. XBANS35PL Raised Rail Approximate Dimensions in Inches (mm)

Table 48. DIN Rails — 15 x 5.5 mm x 2m

Size	Std. Pack	Catalog Number	Price U.S. \$
15 x 5.5 mm x 2m	25	XBANS15P	11.40

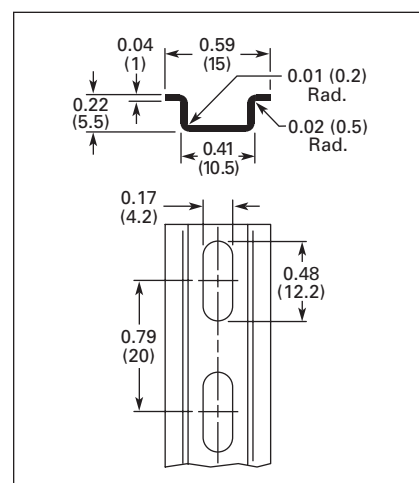


Figure 18. 15 x 5.5 mm x 2m DIN Rail Approximate Dimensions in Inches (mm)

Discount Symbol 1CD1

Angled Mounting Brackets
Angled Mounting Brackets

The angled brackets enable the DIN Rail to be mounted with a spacing or at an angle of 30°.

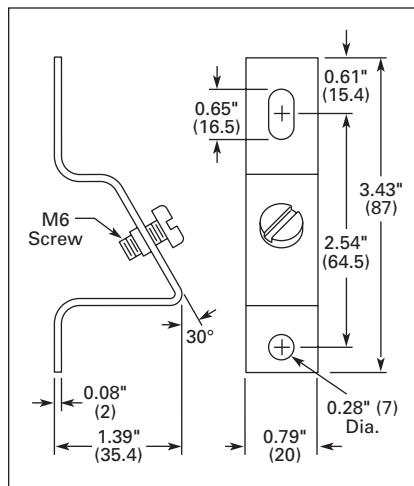
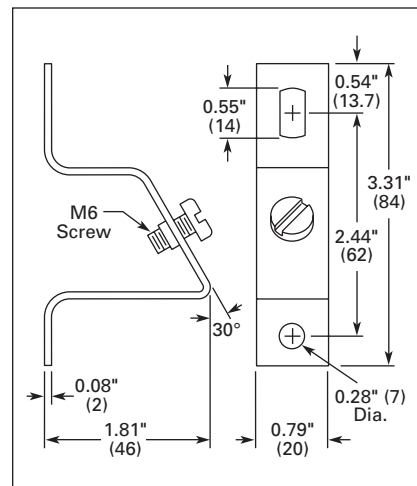
Features

- For mounting DIN Rail at 30° angle
- For use with M6 screw
- Chromated steel
- Provides better visibility

Table 49. Angled Mounting Bracket

Height Inches (mm)	Std. Pack	Catalog Number	Price U.S. \$
1.39 (35.4)	10	XBANBGS	6.20
1.81 (46)	10	XBANBGSH	6.35


Catalog Number XBANBGS

Catalog Number XBANBGSH

Figure 19. XBANBGS Approximate Dimensions in Inches (mm)

Figure 20. XBANBGSH Approximate Dimensions in Inches (mm)

Ferrules

Ferrules

Ferrules are offered in two basic designs — an insulated style available in models for wire sizes 20 through 4 AWG and a non-insulated type available in models for wire sizes 22 through 2 AWG.

Note: UL Ratings do not typically pertain to the use of Ferrules — Ferrules are covered under DIN VDE 0611.

Insulated

- Tube: soft electrolytic copper (E-CU), tin plated
- Plastic sleeve: polypropylene
 - Long-term temperature 105°C
 - Short-term temperature 120°C



Non-insulated

- Tube: soft electrolytic copper (E-CU), tin plated



Special Applications

The TWIN ferrules allow two conductors to be compressed practically in one ferrule. The colored coding of the various cross sections corresponds to DIN 46 228-4.



Table 50. Insulated Ferrules

Wire Size AWG (mm ²)	Dimensions in Inches (mm)						Color	Std. Pack	Catalog Number	Price U.S. \$
	D1	D2	L1	L2	S1	S2				
20 (0.5)	0.04 (1.1)	0.10 (2.5)	0.55 (14.0)	0.31 (8.0)	0.006 (0.15)	0.010 (0.25)	White	100	XBAF1	0.15
18 (0.75)	0.05 (1.3)	0.11 (2.8)	0.55 (14.0)	0.31 (8.0)	0.006 (0.15)	0.010 (0.25)	Gray	100	XBAF3	0.15
18 (1)	0.06 (1.5)	0.12 (3.0)	0.55 (14.0)	0.31 (8.0)	0.006 (0.15)	0.012 (0.30)	Red	100	XBAF4	0.15
16 (1.5)	0.07 (1.8)	0.13 (3.4)	0.55 (14.0)	0.31 (8.0)	0.006 (0.15)	0.012 (0.30)	Black	100	XBAF6	0.15
14 (2.5)	0.09 (2.3)	0.17 (4.2)	0.55 (14.0)	0.31 (8.0)	0.006 (0.15)	0.012 (0.30)	Blue	100	XBAF9	0.18
14 (2.5)	0.09 (2.3)	0.17 (4.2)	0.94 (24.0)	0.71 (18.0)	0.006 (0.15)	0.012 (0.30)	Blue	100	XBAF10	0.37
12 (4)	0.11 (2.8)	0.19 (4.8)	0.67 (17.0)	0.39 (10.0)	0.008 (0.20)	0.012 (0.30)	Gray	100	XBAF11	0.26
12 (4)	0.11 (2.8)	0.19 (4.8)	1.02 (26.0)	0.71 (18.0)	0.008 (0.20)	0.012 (0.30)	Gray	100	XBAF12	0.40
10 (6)	0.14 (3.5)	0.24 (6.2)	0.79 (20.0)	0.47 (12.0)	0.008 (0.20)	0.012 (0.30)	Yellow	100	XBAF13	0.39
10 (6)	0.14 (3.5)	0.24 (6.2)	1.02 (26.0)	0.71 (18.0)	0.008 (0.20)	0.012 (0.30)	Yellow	100	XBAF14	0.49
8 (10)	0.18 (4.6)	0.30 (7.5)	0.87 (22.0)	0.47 (12.0)	0.008 (0.20)	0.012 (0.30)	Red	100	XBAF15	0.42
8 (10)	0.18 (4.6)	0.30 (7.5)	1.10 (28.0)	0.71 (18.0)	0.008 (0.20)	0.012 (0.30)	Red	100	XBAF16	0.67
6 (16)	0.23 (5.8)	0.35 (8.8)	0.94 (24.0)	0.47 (12.0)	0.008 (0.20)	0.016 (0.40)	Blue	100	XBAF17	0.59
6 (16)	0.23 (5.8)	0.35 (8.8)	1.10 (28.0)	0.71 (18.0)	0.008 (0.20)	0.016 (0.40)	Blue	100	XBAF18	0.84
4 (25)	0.29 (7.3)	0.43 (11.0)	1.26 (32.0)	0.71 (18.0)	0.008 (0.20)	0.020 (0.50)	Yellow	50	XBAF19	1.45

Note: The colored coding of the various cross-sections corresponds to DIN 46 228-4.

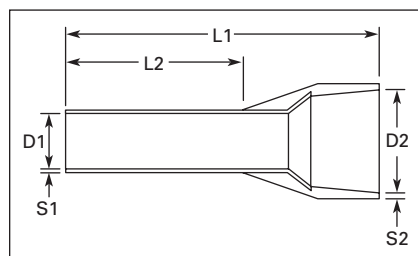


Figure 21. Ferrules with Insulating Collar
Approximate Dimensions in Inches (mm)

Note: Standard pack is the number of ferrules that come in each bag. Must order in multiples of standard pack.

Example: **XBAF1** — an order for 200 pieces will receive 2 bags of ferrules, each with 100 pieces.

Discount Symbol 1CD1

Ferrules
Table 51. Non-insulated Ferrules

Wire Size AWG (mm ²)	Dimensions in Inches (mm)					Std. Pack	Catalog Number	Price U.S. \$
	D1	D2	L1	L2	S			
20 (0.5)	0.04 (1.0)	0.08 (2.1)	0.24 (6.0)	0.21 (5.3)	0.006 (0.15)	100	XBAF20	0.09
18 (0.75)	0.05 (1.2)	0.09 (2.3)	0.24 (6.0)	0.21 (5.3)	0.006 (0.15)	100	XBAF21	0.09
18 (1)	0.06 (1.4)	0.10 (2.5)	0.24 (6.0)	0.21 (5.3)	0.006 (0.15)	100	XBAF23	0.09
16 (1.5)	0.07 (1.7)	0.11 (2.8)	0.28 (7.0)	0.24 (6.0)	0.006 (0.15)	100	XBAF24	0.10
14 (2.5)	0.09 (2.2)	0.13 (3.4)	0.28 (7.0)	0.24 (6.0)	0.006 (0.15)	100	XBAF25	0.11
12 (4)	0.11 (2.8)	0.16 (4.0)	0.35 (9.0)	0.31 (8.0)	0.008 (0.20)	100	XBAF26	0.15
10 (6)	0.14 (3.5)	0.19 (4.7)	0.47 (12.0)	0.35 (9.0)	0.008 (0.20)	100	XBAF27	0.25
8 (10)	0.18 (4.5)	0.23 (5.8)	0.47 (12.0)	0.43 (10.8)	0.008 (0.20)	100	XBAF28	0.27
6 (16)	0.23 (5.8)	0.30 (7.5)	0.47 (12.0)	0.41 (10.5)	0.008 (0.20)	100	XBAF29	0.30

Table 52. Twin Ferrules

Wire Size AWG (mm ²)	Dimensions in Inches (mm)						Color	Std. Pack	Catalog Number	Price U.S. \$
	D1	D2	L1	L2	S1	S2				
20 (0.5)	0.06 (1.5)	0.10 (2.5)	0.59 (15.0)	0.31 (8.0)	0.006 (0.15)	0.010 (0.25)	White	100	XBAFT1	0.67
18 (0.75)	0.07 (1.8)	0.11 (2.8)	0.59 (15.0)	0.31 (8.0)	0.006 (0.15)	0.010 (0.25)	Gray	100	XBAFT3	0.67
18 (1)	0.08 (2.1)	0.13 (3.4)	0.59 (15.0)	0.31 (8.0)	0.006 (0.15)	0.012 (0.30)	Red	100	XBAFT4	0.74
16 (1.5)	0.09 (2.3)	0.14 (3.6)	0.63 (16.0)	0.31 (8.0)	0.006 (0.15)	0.012 (0.30)	Black	100	XBAFT6	0.74
14 (2.5)	0.11 (2.9)	0.17 (4.2)	0.73 (18.5)	0.39 (10.0)	0.008 (0.20)	0.012 (0.30)	Blue	100	XBAFT9	0.79
12 (4)	0.15 (3.8)	0.19 (4.9)	0.91 (23.0)	0.47 (12.0)	0.008 (0.20)	0.012 (0.30)	Gray	100	XBAFT11	2.05
10 (6)	0.19 (4.9)	0.23 (5.9)	0.98 (25.0)	0.55 (14.0)	0.008 (0.20)	0.016 (0.40)	Yellow	100	XBAFT13	2.40
8 (10)	0.26 (6.5)	0.28 (7.2)	1.02 (26.0)	0.55 (14.0)	0.008 (0.20)	0.016 (0.40)	Red	100	XBAFT15	3.00
6 (16)	0.33 (8.5)	0.35 (8.8)	1.22 (31.0)	0.63 (16.0)	0.008 (0.20)	0.020 (0.50)	Blue	50	XBAFT18	3.75

Note: The colored coding of the various cross-sections corresponds to DIN 46 228-4.

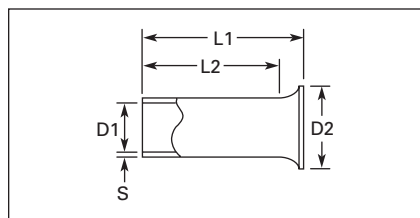


Figure 22. Ferrules without Insulating Collar
Approximate Dimensions in Inches (mm)

Note: Standard pack is the number of ferrules that come in each bag. Must order in multiples of standard pack.

Example: **XBAF1** — an order for 200 pieces will receive 2 bags of ferrules, each with 100 pieces.

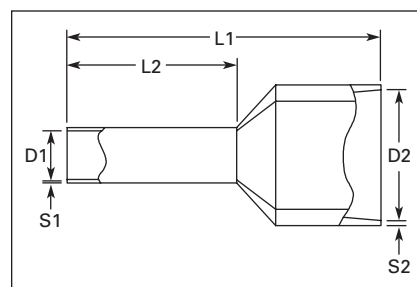


Figure 23. Twin Ferrules Approximate Dimensions in Inches (mm)

Hand Tools

Stripping Tool



Dimensions

- Length: 8.07 Inches (205 mm)
- Weight: 0.44 Lbs. (200g)
- Stripping Length: Up to 18 mm
- Conductor/cable stripping range:
 - Conductor/cable: 0.2 – 6 mm²/ 24-10 AWG
 - Wire cutter: 6 mm²/ 10 AWG

Table 53. Stripping Tools

Std. Pack	Catalog Number	Price U.S. \$
1	XBTCUTSTP	217.00

Crimping Pliers

The crimping pliers deform the ferrules hexagonally. For 0.25 – 6 mm² ferrules in accordance with DIN 46 228-1: 1992-08 and DIN 46 228-4: 1990-09.



Dimensions

- Length: 6.85 Inches (175 mm)
- Weight: 0.79 Lbs. (360g)
- Areas of Application
 - Conductor: 0.25 – 6 mm²
 - Conductor: 23-10 AWG

Table 54. Crimping Pliers

Std. Pack	Catalog Number	Price U.S. \$
1	XBTCRMP66	526.00

Slotted Screwdrivers

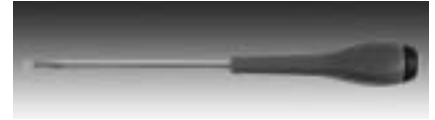


Table 55. Slotted Screwdriver

Std. Pack	Size	Catalog Number	Price U.S. \$
10	3.5 mm	XBTDVVR35	13.30
10	4.0 mm	XBTDVVR40	14.50

Marking Accessories
Marking Accessories
Marker Strips and Sheets

(for use with XBAPLT2006K1 plotter)



The **XB** Series marking system provides logical and clear identification of the modular terminal blocks and interface modules.

Table 56. Marker Strips (Strip of 10)

Terminal Width (mm)	Std. Pack	Catalog Number	Price U.S. \$
5.2	10	XBMZB5	0.67
6.2	10	XBMZB6	0.67
8.2	10	XBMZB8	0.67
10.2	10	XBMZB10	0.67
12	10	XBMZB12	0.67
16	10	XBMZB15 ①	0.67

Flat

5.2	10	XBMZBF5	0.62
6.2	10	XBMZBF6	0.62
8.2	10	XBMZBF8	0.62
10.2	10	XBMZBF10	0.62
12	10	XBMZBF12	0.62
16	10	XBMZBF15	0.62

① All markers are strips of 10, except XBMZB15 which is a strip of 5.


Blank Marker Sheets

Flat Marker Sheets
Table 57. Marker Sheets

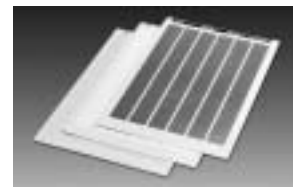
Terminal Width (mm)	Color	Std. Pack	Catalog Number	Price U.S. \$
Marker Sheets (10 rows of 12)				
5.2	White	50	XBMPZB5	7.00
5.2	Blue	50	XBMPZB5BU	7.00
5.2	Red	50	XBMPZB5RD	7.00
5.2	Yellow	50	XBMPZB5YE	7.00
5.2	Green	50	XBMPZB5GN	7.00

Marker Sheets (10 rows of 10)

6.2	White	50	XBMPZB6	7.00
6.2	Blue	50	XBMPZB6BU	7.00
6.2	Red	50	XBMPZB6RD	7.00
6.2	Yellow	50	XBMPZB6YE	7.00
6.2	Green	50	XBMPZB6GN	7.00

Flat Marker Sheets (10 rows of 10)

5.2	White	10	XBMPZBF5	6.70
5.2	Orange	10	XBMPZBF5OG	6.70
6.2	White	10	XBMPZBF6	6.70
6.2	Orange	10	XBMPZBF6OG	6.70
8.2	White	10	XBMPZBF8	6.70

Label Sheets for Laser Printers


The XBM labels have been specially developed for laser printers and have considerable advantages:

- Can be printed on all commercially available laser printers
- Or can use plotter or pen for printing
- Good adhesive properties
- A4 size
- XBMKL25X12WH designed to fit XGBS2512 group marker
- XBMLMAL447 is perforated for terminal strip marker XBMGLMA and is 44 x 7 mm

Table 58. Label Sheets

Std. Pack	Catalog Number	Price U.S. \$
10	XBMKL25X12WH	3.15
10	XBMLMAL447	14.90

Marking Accessories

Table 59. Proper Marking Tag Size

XBMBZB5	XBMBZBF5	XBMBZB6	XBMBZBF6	XBMBZB8	XBMBZBF8	XBMBZB10	XBMBZBF10	XBMBZB12	XBMBZBF12	XBMBZB15	XBMBZBF15	XBMSZB
XBUT25	XBPT25 (2)	XBUT4	XBPT4 (2)	XBUT6	XBPT6 (2)	XBUT10	XBPT10 (2)	XBPT16 (1)	XBPT16 (2)	XBUT35	XBPT35 (2)	XBMKLMZ
XBUT4FBE (1)	XBPTT25	XBUTT4	XBPTT4	XBPT6 (1)	XBPT4FBN (2)	XBUT16				XBPT35 (1)		
XBUT6FBN (1)	XBPTK	XB3UKA	XBPT4FBE (2)	XBUT6	XBPT4FSI (2)	XBTK						
XBPT25 (1)	XBPU25 (2)	XB3UKF	XBQT25 (3)	XBPT4FSI (1)		XBUT50						
XBPT4FBE (1)	XBAP...	XBUT4FBE (2)	XBQT25FBE (3)			XBUT150						
XBPU25 (1)	XBQT15 (3)	XBUT6FBN (2)	XBQU25 (3)			XBUT95						
XBQT15 (1)	XBQTT15	XBUT10				XBPT10 (1)						
XBQT25FBE (4)	XBQU15 (3)	XBUTK4				XBMKLMZ (5)						
XBQU15 (1)	XBMPK15	XBPT4 (1)										
XBUTK25	XBMPKK15	XBPT4FBN (1)										
	XBATCP...	XBQT25 (1)										
		XBQT25FBE (1)										
		XBQU25 (1)										
		XBUTK4										

(1) For Center Labeling.

(2) For External Labeling.

(3) For Center and Outside Labeling.

(4) For Lever Labeling.

(5) Two (2) XBMBZB10 Tags fit in one (1) XBMKLMZ.

Note: Marking Tag Sizes are for all catalog numbers starting with given prefix, EXCEPT FUSE TERMINAL BLOCKS.

Marking Accessories
Pre-printed Marking Tags

Terminal Block Marking Tags

The tags are made of white self-extinguishing polyamide 6.6 and the imprint is hot stamped with rubproof black ink.



1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Horizontally Printed Marking Tags
Marking Direction: Horizontal
Marking Direction: Vertical
Table 60. Printed Marking Tags

Description	Catalog Number	Price U.S. \$	Standard Pack
Marking Tags for 5.2 mm Wide Terminal Blocks			
ZB5 tags vertically numbered	1 – 10 ①	XBMZB5V/1	1.30 10
	11 – 20	XBMZB5V/11	1.30 10
	21 – 30	XBMZB5V/21	1.30 10
	31 – 40	XBMZB5V/31	1.30 10
	41 – 50	XBMZB5V/41	1.30 10
	51 – 60	XBMZB5V/51	1.30 10
	61 – 70	XBMZB5V/61	1.30 10
	71 – 80	XBMZB5V/71	1.30 10
	81 – 90	XBMZB5V/81	1.30 10
	91 – 100	XBMZB5V/91	1.30 10
ZBF5 tags vertically numbered	1 – 10 ①	XBMZBF5V/1	1.30 10
	11 – 20	XBMZBF5V/11	1.30 10
	21 – 30	XBMZBF5V/21	1.30 10
	31 – 40	XBMZBF5V/31	1.30 10
	41 – 50	XBMZBF5V/41	1.30 10
	51 – 60	XBMZBF5V/51	1.30 10
	61 – 70	XBMZBF5V/61	1.30 10
	71 – 80	XBMZBF5V/71	1.30 10
	81 – 90	XBMZBF5V/81	1.30 10
	91 – 100	XBMZBF5V/91	1.30 10
Marking Tags for 6.2 mm Wide Terminal Blocks			
ZB6 tags vertically numbered	1 – 10 ①	XBMZB6V/1	1.30 10
	11 – 20	XBMZB6V/11	1.30 10
	21 – 30	XBMZB6V/21	1.30 10
	31 – 40	XBMZB6V/31	1.30 10
	41 – 50	XBMZB6V/41	1.30 10
	51 – 60	XBMZB6V/51	1.30 10
	61 – 70	XBMZB6V/61	1.30 10
	71 – 80	XBMZB6V/71	1.30 10
	81 – 90	XBMZB6V/81	1.30 10
	91 – 100	XBMZB6V/91	1.30 10
ZBF6 tags vertically numbered	1 – 10 ①	XBMZBF6V/1	1.30 10
	11 – 20	XBMZBF6V/11	1.30 10
	21 – 30	XBMZBF6V/21	1.30 10
	31 – 40	XBMZBF6V/31	1.30 10
	41 – 50	XBMZBF6V/41	1.30 10
	51 – 60	XBMZBF6V/51	1.30 10
	61 – 70	XBMZBF6V/61	1.30 10
	71 – 80	XBMZBF6V/71	1.30 10
	81 – 90	XBMZBF6V/81	1.30 10
	91 – 100	XBMZBF6V/91	1.30 10

① For Text Printed Horizontally, Change "V" in Catalog Number to "H".

- White marking strip available pre-printed.
Strip covers 10 terminals. Marking 1 – 10, 11 – 20, up to 991 – 999. Contact Eaton for more options.
- XBMZB5 or XBMZBF5 for terminal blocks 5.2 mm wide
- XBMZB6 or XBMZBF6 for terminal blocks 6.2 mm wide
- XBMZB8 or XBMZBF8 for terminal blocks 8.2 mm wide
- XBMZB10 or XBMZBF10 for terminal blocks 10.2 mm wide
- XBMZB12 or XBMZBF12 for terminal blocks 12 mm wide
- XBMZB15 or XBMZBF15 for terminal blocks 16 mm wide

Description	Catalog Number	Price U.S. \$	Standard Pack
Marking Tags for 8.2 mm Wide Terminal Blocks			
ZB8 tags vertically numbered	1 – 10 ①	XBMZB8V/1	1.30 10
	11 – 20	XBMZB8V/11	1.30 10
	21 – 30	XBMZB8V/21	1.30 10
	31 – 40	XBMZB8V/31	1.30 10
	41 – 50	XBMZB8V/41	1.30 10
	51 – 60	XBMZB8V/51	1.30 10
	61 – 70	XBMZB8V/61	1.30 10
	71 – 80	XBMZB8V/71	1.30 10
	81 – 90	XBMZB8V/81	1.30 10
	91 – 100	XBMZB8V/91	1.30 10
ZBF8 tags vertically numbered	1 – 10 ①	XBMZBF8V/1	1.30 10
	11 – 20	XBMZBF8V/11	1.30 10
	21 – 30	XBMZBF8V/21	1.30 10
	31 – 40	XBMZBF8V/31	1.30 10
	41 – 50	XBMZBF8V/41	1.30 10
	51 – 60	XBMZBF8V/51	1.30 10
	61 – 70	XBMZBF8V/61	1.30 10
	71 – 80	XBMZBF8V/71	1.30 10
	81 – 90	XBMZBF8V/81	1.30 10
	91 – 100	XBMZBF8V/91	1.30 10
Marking Tags for 10.2 mm Wide Terminal Blocks			
ZB10 tags vertically numbered	1 – 10 ①	XBMZB10V/1	1.30 10
	11 – 20	XBMZB10V/11	1.30 10
	21 – 30	XBMZB10V/21	1.30 10
ZBF10 tags vertically numbered	1 – 10 ①	XBMZBF10V/1	1.30 10
	11 – 20	XBMZBF10V/11	1.30 10
	21 – 30	XBMZBF10V/21	1.30 10
Marking Tags for 12 mm Wide Terminal Blocks			
ZB12 tags vertically numbered	1 – 10 ①	XBMZB12V/1	1.25 10
	11 – 20	XBMZB12V/11	1.25 10
	21 – 30	XBMZB12V/21	1.25 10
ZBF12 tags vertically numbered	1 – 10 ①	XBMZBF12V/1	1.30 10
	11 – 20	XBMZBF12V/11	1.30 10
	21 – 30	XBMZBF12V/21	1.30 10
Marking Tags for 16 mm Wide Terminal Blocks			
ZB15 tags vertically numbered	1 – 10 ①	XBMZB15V/1	1.30 10
	11 – 20	XBMZB15V/11	1.30 10
	21 – 30	XBMZB15V/21	1.30 10
ZBF15 tags vertically numbered	1 – 10 ①	XBMZBF15V/1	1.30 10
	11 – 20	XBMZBF15V/11	1.30 10
	21 – 30	XBMZBF15V/21	1.30 10

Discount Symbol 1CD1

Terminal Block Group Marking



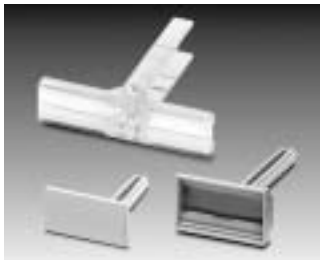
Terminal block groups are marked using marking labels that are snapped into the marker strip groove of the terminal blocks. The group is marked using either labels or insert markers.

Table 61. Terminal Block Group Marking ^①

Std. Pack	Catalog Number	Price U.S. \$
100	XBGBS2512	1.50

^① See **Page 80** for insert labels.

Terminal Strip Markers



Adjustable height for end bracket labeling.

Table 62. Terminal Strip Markers ^②

Std. Pack	Width (mm)	Catalog Number	Price U.S. \$
10	20 x 8	XBMKLM2	0.67
10	44 x 7	XBMLMA	1.95

^② See **Page 80** for insert labels.

Terminal Strip Marker Carriers



For labeling terminal groups, for mounting on DIN rail. Lettering field is 40 x 17 mm.

Table 63. Terminal Strip Marker Carriers

Std. Pack	Catalog Number	Price U.S. \$
10	XBMUBE	2.15
10	XBMUBED	2.80

Insert Markers for Laser Printers



One Sheet = 56 labels.
Lettering field is 40 x 17 mm.

Table 64. Insert Markers for XBMUBE(D)

Std. Pack	Catalog Number	Price U.S. \$
10	XBMUBEL4017	15.90

Refillable Marker Pen



Refillable marker pen for manual labeling, line thickness 0.35 mm.

Table 65. Refillable Marker Pen

Std. Pack	Catalog Number	Price U.S. \$
1	XBMXPEN	116.00

Ink Cartridge

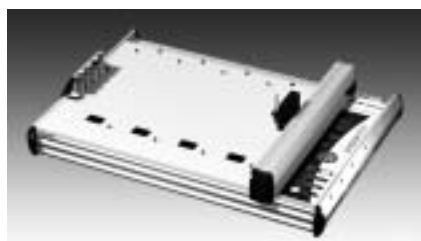
1	XBMINK	31.50
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Marking Accessories
Non-refillable Marker Pen


For manual labeling, line thickness 0.5 mm.

Table 66. Non-refillable Marker Pen

Std. Pack	Catalog Number	Price U.S. \$
1	XBMBSTIFT	32.50

Marking Plotter


The automatic Prepare Pen function ensures optimum marking results right from the first character. Pens can remain in the pen station even for prolonged intervals without drying out.

Table 67. Marking Plotter

Description	Std. Pack	Catalog Number	Price U.S. \$
Plotter Kit ①	1	XBAPLT2006K1	12,360.00
Pen Station Sealing Set	1	XBMP1PENDEPOT	145.00
Plotter Pen Preparation Plate	1	XBMP1PREPLATES	40.75
Template for Marker Strips	1	XBMP1MZB	335.00
Template for Flat Marker Strips	1	XBMP1MZBF	335.00
Template for XBMPZB Marker Sheets	1	XBMP1MPZB	335.00
Template for XBMPZBF Marker Sheets	1	XBMP1MPZBF	335.00
Template for Weidmuller Multicard Sheet	1	XBMP1MCSF46	382.00
Template for Weidmuller Multicard Sheet Universal	1	XBMP1MCU	449.00
Template for Entrelec Sheets	1	XBMP1MRC	253.00
0.25 mm Disposal Pen	1	XBMDPEN25R	103.00
0.35 mm Disposal Pen	1	XBMDPEN35R	103.00
0.25 mm Pen	1	XBMPEN25	227.00
0.35 mm Pen	1	XBMPEN35	227.00
Ink Cartridge	2	XBMINK	31.50
Pen Cleaning Set	1	XBMRSET	73.50
Cleaning Cartridges	2	XBMRMEKFC2	42.75

① Plotter kit includes PLT2006 plotter system with EMARK software and user manual, starter ink and cleaning sets, and templates for marking all XBMZB and XBMZBF tags.

Custom Marking Tag System

This plotter system uses Windows-based software to interface with a PC, allowing custom printing on standard terminal block marking tags. These standard marking tags provide circuit identification for Cutler-Hammer® DIN rail mount terminal blocks.

Features

- Enter tag text directly into EMARK software program or import file from Autocad or Excel
- Selectable font sizes, types and colors including common symbols for circuit identification (ground, ~, etc.)
- Various text formatting options including copy, paste, increment functions, text alignment, etc.
- Durable templates allow printing of four different tag sizes at the same time
- Automatic prepare pen function for optimum results

Technical Specifications

- Plotter Type — Flatbed Plotter
 - Maximum plotting surface: 440 mm x 296 mm
 - Maximum material height: 10.5 mm
 - Plotting speed: max. 40 cm/sec
 - Pen station: 4 depots with double sealing
 - Drive: Two-phase impulse-driven motor

- Interfaces: Parallel (Centronics) / USB Level 1.1
- Electronics
 - Command language: Based on HP-GL 7475A
 - Data buffer: 16 MB
 - Addressable resolution: 0.01 mm
 - Repeat accuracy: 0.05 mm
 - Repeat accuracy on pen change: 0.05 mm with optimum pen
- Power supply: Via separate power supply unit with exchangeable mains feeder cable
 - Power supply unit input voltage: 100 – 240V AC / 50 – 60 Hz
 - Power supply unit input current: max. 0.3A at 230V~
 - Power supply unit output voltage: 24V DC
 - Power supply unit output current: max. 1.4A
- Environmental conditions
 - Operation: 50° to 95°F (10° to 35°C)
35% to 75% rel. humidity
 - Storing: 14° to 122°F (-10° to 50°C)
10% to 90% rel. humidity
- Other
 - Dimensions (L x W x H): 25.98 x 17.32 x 4.92 Inches (660 x 440 x 125 mm)
 - Weight: Approx. 18 Lbs. (8 kg)

EMARK Software


Eaton's EMARK software makes labeling your terminal blocks quick and simple. You can import your data from ECHART, any other CAD/CAE program, or enter text directly into EMARK. The software allows marking tags to be printed on the PLT2006 plotter in a professional manner.

Discount Symbol **1CD1**

Testing Accessories

Test Adapter



For 4 mm diameter test plug and 4 mm diameter safety test plug. Makes contact in the bridge shaft.

Table 68. Test Adapter

Std. Pack	Catalog Number	Price U.S. \$
1	XBATSPA14	11.10

Modular Test Plugs



For individual assembly of test plug strips.

Table 69. Modular Test Plugs

Std. Pack	Catalog Number	Price U.S. \$
10	XBATSPS5	10.70
10	XBATSPS6	10.90
10	XBATSPS8	1.10

Spacer Plates

10	XBATSDPPS5	0.93
10	XBATSDPPS6	0.98
10	XBATSDPPS8	0.98

Test Plugs



Consisting of metal part for socket hole and insulating sleeve.

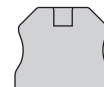
Table 70. Test Plugs

Std. Pack	Color	Catalog Number	Price U.S. \$
2.3 mm			
10	—	XBATSMPSMT	4.10
10	Blue	XBATSMPSIHBU	0.78
10	White	XBATSMPSIHW	0.78
10	Red	XBATSMPSIHRD	0.78
10	Black	XBATSMPSIHBK	0.78
4 mm			
10	—	XBATSPSMT	1.95
10	Blue	XBATSPSIHBU	0.73
10	White	XBATSPSIHW	0.73
10	Red	XBATSPSIHRD	0.73
10	Black	XBATSPSIHBK	0.73

Separating Plates, Covers and Bridges

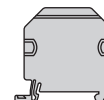
End Cover

Used to cover an open end of terminal block when changing sizes within an assembly and/or for last terminal block in a row.



Partition Plate

Protrudes over the terminal block and is used to increase electrical clearance between terminals. Also provides visual indications of the functions of terminal blocks. For example, terminal blocks between two partition plates may provide an exact location for test points.



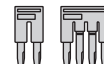
End Cover Segment

Covers protruding terminal block segments of three and four wire terminal blocks when next to a two wire block. This ensures that all is touch-proof and saves space over using a standard end cover.



Jumper/Bridge

Provides the ability to electrically connect terminal blocks. Non-adjacent blocks may be bridged by snapping off the contact tabs of the standard bridge. The reducing bridge permits simple connection of terminal blocks with different nominal cross-sections.



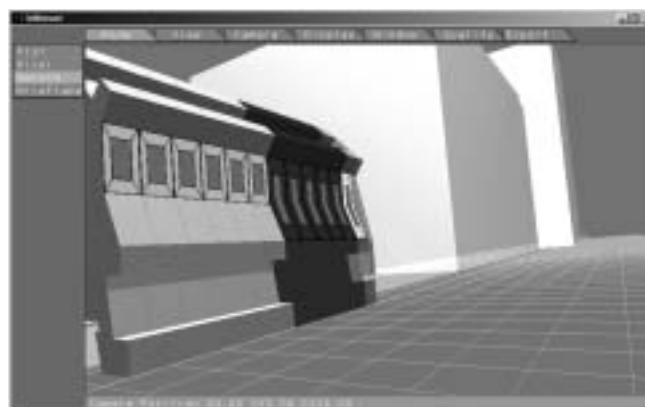
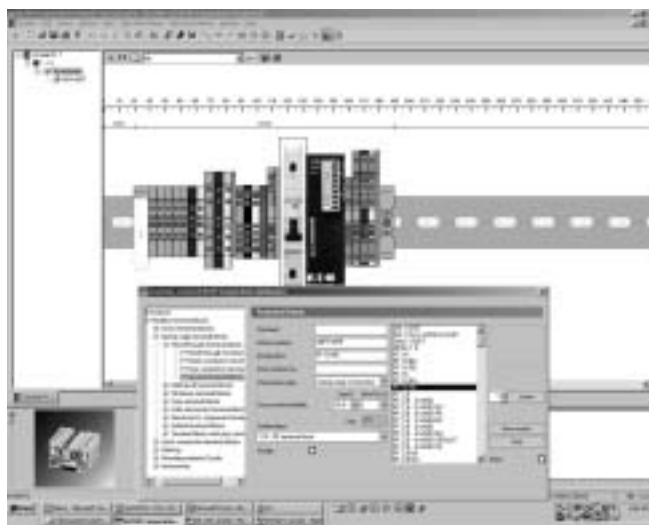
Note: See these accessories as listed with terminal blocks for more information.

Product Description



Eaton's ECHART software makes designing control cabinets quicker and easier, whether in 2D or 3D. ECHART is a user-friendly Windows-based software package that allows you to build rail assemblies right on your PC. With each click of the mouse, you can add more components to your rail assembly — everything from terminal blocks to supplemental

protectors, relays, power supplies, and any other product that mounts on DIN Rail. ECHART also provides the capability to add accessories from marking options to jumpers and end covers. Use the auto-correct feature to insure that your rail assembly is designed according to all international standards and is technically accurate. This auto-correct feature will check that all end covers, separating plates, end stops, and other accessories are provided where needed. The dimensional diagram, Bill of Materials, and other information can be exported directly into any CAE system or transferred to Microsoft Word or Excel. Export the labeling data to Eaton's EMARK software package for accurate, effortless printing of marking tags. All this data makes building rail assemblies in your facility much more efficient — or send the drawings to Eaton for a quote on having Eaton build your rail assembly for you — to your specifications. Eaton will perform everything from providing a drawing for approval, to cutting the DIN Rail and populating it with terminal blocks, relays, power supplies, IEC Control products, and anything else that mounts on a rail. You have the expertise of our skilled application engineers throughout the entire process. Let us help you save inventory and logistical costs. Contact your local sales office for more details.



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