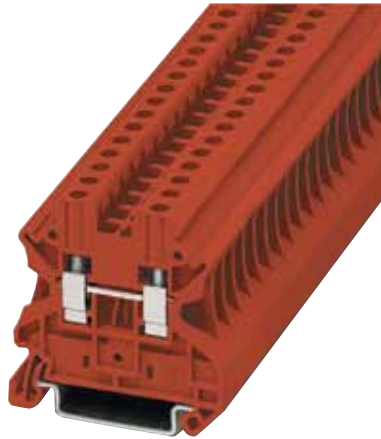


Terminal Blocks Overview

Product Family Overview

The XB Series 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.



XBUT4RD



XBUT4

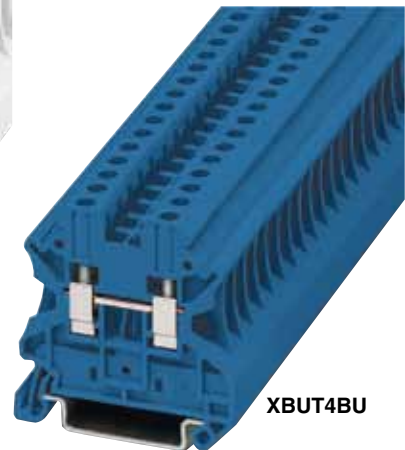
All models shown smaller than actual size.

Application Description

The metal portion of the XB Series terminal blocks are made from highgrade, 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.



XBUT4WH



XBUT4BU

Features

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

Flexible Plug-In Bridge System— All 3 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 2 bridge shafts arranged in 1 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.

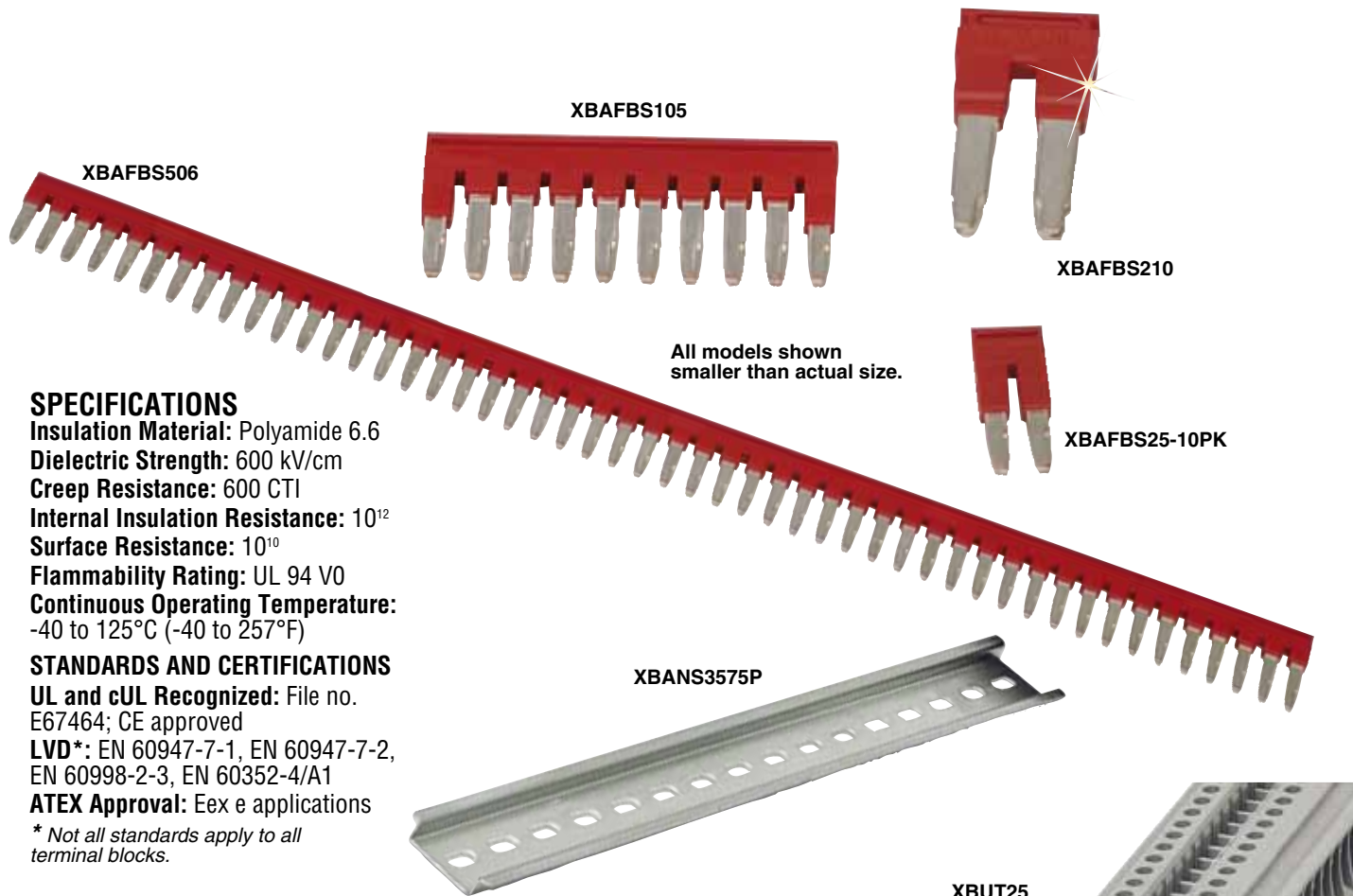
Large Surface Area for Marking—

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.

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.



XBUT4BK



All models shown smaller than actual size.

SPECIFICATIONS

- Insulation Material:** Polyamide 6.6
- Dielectric Strength:** 600 kV/cm
- Creep Resistance:** 600 CTI
- Internal Insulation Resistance:** 10¹²
- Surface Resistance:** 10¹⁰
- Flammability Rating:** UL 94 V0
- Continuous Operating Temperature:** -40 to 125°C (-40 to 257°F)

STANDARDS AND CERTIFICATIONS

- UL and cUL Recognized:** File no. E67464; CE approved
- LVD*:** EN 60947-7-1, EN 60947-7-2, EN 60998-2-3, EN 60352-4/A1
- ATEX Approval:** Eex e applications

* Not all standards apply to all terminal blocks.

Modular Terminal Blocks for Potentially Explosive Environments

The standard modular terminal blocks 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

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 55-1. EN 50014 STANDARD EXAMPLE	
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 55-2. 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

SPECIFICATIONS FOR XBUT10

Terminal Width: 10.2 mm

Maximum Wire Size: 6 AWG/10 mm²

IEC 60 947-7-1 in V/A/AWG: 1000/76/20-6

EN 50 019¹ in V/A/AWG: 750/54 or 69/20-6

UL-cUL Ratings in V/A/AWG: 600/65/20-6

TECHNICAL DATA DIMENSIONS

Width/Length/Cover Width in mm (inch):

10.2 (0.40)/46.9 (1.85)/2.2 (0.09)

Height for 35 x 7.5 / 35 x 15 in mm (inch):

47.5 (1.87)/55.0 (2.17)

TECHNICAL DATA IN ACCORDANCE WITH IEC

Maximum Load Current in A/

Cross-Section in mm²: 76/16

Rated Surge Voltage in kV/

Contamination Class: 8/3

Surge Voltage Category/Insulating

Material Group: III/I

CONNECTION CAPACITY

Stranded with Ferrule/with Ferrule and

Plastic Sleeve in mm²: 0.5 to 10/0.5 to 10

MULTI-CONDUCTOR CONNECTION (SAME CROSS-SECTION)

Solid/Stranded in mm²: 0.5 to 4/0.5 to 4

Stranded with Ferrules without Plastic

Sleeve in mm²: 0.5 to 2.5

Stranded with Twin Ferrule with Plastic

Sleeve in mm²: 0.5 to 6

Stripping Length in mm (inch): 10 (0.39)

Thread: M4

Torque in in-lb (Nm): 13.3 to 15.9 (1.5 to 1.8)

XBUT10



XBAES35C



XBATUT10



XBACUT10



XBANS3575SP

To Order

MODEL NO.	DESCRIPTION
XBUT10	Gray single level connection
XBUT10BU	Blue single level connection
XBUT10OR	Orange single level connection
XBUT10RD	Red single level connection
XBUT10YE	Yellow single level connection
ACCESSORIES	
XBACUT10	Gray end cover
XBATUT10	Gray partition plate
XBAFBS210	Red 2 position plug-in bridge
XBARBUT10	Red reducing bridge
XBMZB10	10.2 mm white blank marker strip
XBANS3575P	DIN rail 35 x 7.5 mm x 2 m (1.4 x 0.30" x 6.6') slotted
XBANS3575U	DIN rail 35 x 7.5 mm x 2 m (1.4 x 0.30" x 6.6') solid
XBANS3515P	DIN rail 35 x 15 mm x 2 m (1.4 x 0.60" x 6.6') slotted
XBANS3515U	DIN rail 35 x 15 mm x 2 m (1.4 x 0.60" x 6.6') solid
XBAES35C	1-screw mounted end stop
XBAES35T	3-screw mounted end stop
XBAES35N	Snap-on end stop

Note 1: EU type-examination certificate number KEMA 05ATEX2158U.

Ordering Example: XBUT10YE, yellow terminal block.