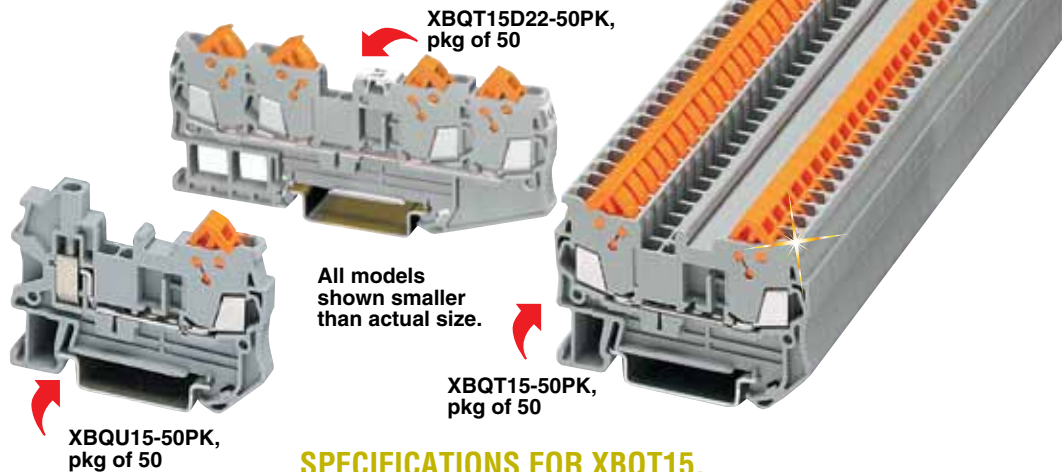


# INSULATION DISPLACEMENT CONNECTION TERMINAL BLOCKS

## XBQ Series



- Quick Connection Capability
- Global Acceptance
- Flexible Plug-In Bridge System
- Large Surface Area for Marking
- Standardized Testing System

The superior design of the 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.

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 mm<sup>2</sup> can be wired without the use of ferrules.

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!

The Multi-Conductor 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 XBQU 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.

## SPECIFICATIONS FOR XBQT15, XBQT15D22, XBQU15 SERIES

Terminal Width: 5.2 mm (0.20")

**XBQT15, XBQT15D22:**

Maximum Wire Size: 16 AWG/1.5 mm<sup>2</sup>

Connection Data in V/A/AWG: 800/17.5/24-16

EN 50 019 in V/A/AWG for XBQT15: 550/16/24-16

UL-cUL Ratings in V/A/AWG: 600/10/24-16

**XBQU15:**

Maximum Wire Size: 12 AWG/2.5 mm<sup>2</sup>

IEC Screw Connection in V/A/AWG: 800/17.5/26-12

IEC IDC Connection in V/A/AWG: 800/17.5/24-12

UL-cUL Screw Connection in V/A/AWG: 600/10/26-12

UL-cUL IDC Connection in V/A/AWG: 600/10/24-16

## TECHNICAL DATA DIMENSIONS

Width/Length/Cover Width in mm (in): 5.2 (0.20)/58.8 (2.31)/2.2 (0.09)

**XBQT15, XBQT15D22 Height for 35 x 7.5/35 x 15 in mm (in):**  
39.3 (1.55)/46.8 (1.84)

**XBQU15 Height for 35 x 7.5/35 x 15 in mm (in):**  
42.8 (1.69)/50.3 (1.98)

## TECHNICAL DATA IN ACCORDANCE WITH IEC

Maximum Load Current in A/Cross Section in mm<sup>2</sup>: 17.5/1.5

Rated Surge Voltage in kV/Contamination Class: 8/3

Surge Voltage Category/Insulating Material Group: III/I

## CONNECTION CROSS-SECTION

Core Insulation: PVC/PE

Single/Multiple/Fine Strand in mm<sup>2</sup>: 1.5

Halogen-Free in mm<sup>2</sup>: 1.5

Fine Stranded/Superfine Strand in AWG (mm<sup>2</sup>):  
24 to 16 (0.25 to 0.34)

Repeated Connections Minimum 100x in mm<sup>2</sup>: 0.25 to 1.5  
Connection Capacity, Screw Connection for XBQU15  
Stranded with Ferrule/with Ferrule & Plastic Sleeve in mm<sup>2</sup>:  
0.25 to 2.5/0.25 to 2.5

Multi-Conductor Connection (same cross-section)

Solid/Stranded in mm<sup>2</sup>: 0.14 to 1.5/0.14 to 1.5

Stranded with Ferrule w/o Plastic Sleeve in mm<sup>2</sup>: 0.25 to 1.5

Stranded with Twin Ferrule w/Plastic Sleeve in mm<sup>2</sup>: 0.5 to 1.5

Stripping Length in mm (in): 9 (0.35)

Thread/Torque in-lb (Nm): M3/5.3 to 7.1 (0.6 to 0.8)

## SPECIFICATIONS FOR XBQT25 AND XBQU25 SERIES

Terminal Width: 6.2 mm (0.24")

XBQT25 Maximum Wire Size: 14 AWG/2.5 mm<sup>2</sup>

Maximum Wire Size for XBQU25: 10 AWG/4 mm<sup>2</sup>

Connection Data in V/A/AWG: 800/24/20-14

UL-cUL Ratings in V/A/AWG: 600/215/20-14

XBQU25 Maximum Wire Size: 10 AWG/4 mm<sup>2</sup>

Screw Connection in V/A/AWG: 800/24/26-10

IEC IDC Connection in V/A/AWG: 800/24/20-14

UL-cUL Screw Connection in V/A/AWG: 600/15/26-10

UL-cUL IDC Connection in V/A/AWG: 600/15/24-14

### TECHNICAL DATA DIMENSIONS

Width/Length/Cover Width in mm (in): 6.2 (0.24)/62.6 (2.46)/2.2 (0.09)

XBQT25 Height for 35 x 7.5/35 x 15 in mm (in):

39.3 (1.55)/46.8 (1.84)

XBQU25 Height for 35 x 7.5/35 x 15 in mm (in):

42.8 (1.69)/50.3 (1.98)

### TECHNICAL DATA IN ACCORDANCE WITH IEC

Maximum Load Current in A/Cross Section in mm<sup>2</sup>: 24/2.5

Rated Surge Voltage in kV/Contamination Class: 8/3

Surge Voltage Category/Insulating Material Group: III/I

### CONNECTION CROSS-SECTION

Core Insulation: PVC/PE

Single/Multiple/Fine Strand in mm<sup>2</sup>: 2.5

Halogen-Free in mm<sup>2</sup>: 2.5

Fine Stranded/Superfine Strand in AWG: 20 to 14

Repeated Connections Minimum 100x in mm<sup>2</sup>: 0.5 to 2.5

Connection Capacity, Screw Connection for XBQU25

Stranded with Ferrule/with Ferrule and Plastic Sleeve in mm<sup>2</sup>: 0.25 to 0.25 to 4

Multi-Conductor Connection (same cross-section)

Solid/Stranded in mm<sup>2</sup>: 0.14 to 1.5/0.14 to 1.5

Stranded with Ferrule w/o Plastic Sleeve in mm<sup>2</sup>: 0.25 to 1.5

Stranded with Twin Ferrule w/ Plastic Sleeve in mm<sup>2</sup>: 0.5 to 2.5

Stripping Length in mm (in): 9 (0.35)

Thread/Torque in-lb (Nm): M3/5.3 to 7.1 (0.6 to 0.8)

**To Order Visit [omega.com/xbq](http://omega.com/xbq) for Pricing and Details**

MODEL NO.	DESCRIPTION
XBQT15-50PK	Gray, 5.2 mm (0.20") IDC single level TB, 24-16 AWG, pkg of 50
XBQT15BU-50PK	Blue, 5.2 mm (0.20") IDC single level TB, 24-16 AWG, pkg of 50
XBQT25-50PK	Gray, 6.2 mm (0.24") IDC single level TB, 20-14 AWG, pkg of 50
XBQT25BU-50PK	Blue, 5.2 mm (0.20") IDC single level TB, 20-14 AWG, pkg of 50
XBQT15D22-50PK	Gray, 5.2 mm (0.20") 4 wire multi-conductor IDC TB, 24-16 AWG, pkg of 50
XBQT15D22BU-50PK	Blue, 5.2 mm (0.20") 4 wire multi-conductor IDC TB, 24-16 AWG, pkg of 50
XBQU15-50PK	Gray, 5.2 mm (0.20") IDC hybrid TB, 24-16 AWG, pkg of 50
XBQU25-50PK	Gray, 6.2 mm (0.24") IDC hybrid TB, 20-14 AWG, pkg of 50
ACCESSORIES	
XBACQT15-10PK	Gray end cover, pkg of 10 for XBQT15
XBACQT15D22-10PK	Gray end cover, pkg of 10 for XBQT15D22
XBACQT25-10PK	Gray end cover, pkg of 10 for XBQT25
XBACQU15-10PK	Gray end cover, pkg of 10 for XBQU15
XBACQU25-10PK	Gray end cover, pkg of 10 for XBQU25
XBAFBS25-10PK	Red 2 position plug-in bridge, pkg of 10 for XBQT15, XBQU15 Series
XBAFBS35-10PK	Red 3 position plug-in bridge, pkg of 10 for XBQT15, XBQU15 Series
XBAFBS55-10PK	Red 5 position plug-in bridge, pkg of 10 for XBQT15, XBQU15 Series
XBAFBS105-10PK	Red 10 position plug-in bridge, pkg of 10 for XBQT15, XBQU15 Series
XBAFBS505-10PK	Red 50 position plug-in bridge, pkg of 10 for XBQT15, XBQU15 Series
XBAFBS26-10PK	Red 2 position plug-in bridge, pkg of 10 for XBQT25, XBQU25 Series
XBAFBS36-10PK	Red 3 position plug-in bridge, pkg of 10 for XBQT25, XBQU25 Series
XBAFBS56-10PK	Red 5 position plug-in bridge, pkg of 10 for XBQT25, XBQU25 Series
XBAFBS106-10PK	Red 10 position plug-in bridge, pkg of 10 for XBQT25, XBQU25 Series
XBAFBS506-10PK	Red 50 position plug-in bridge, pkg of 10 for XBQT25, XBQU25 Series
XBATSPA14-10PK	Test adaptor, pkg of 10
XBMZBF5-10PK	White blank marker strip external labeling, pkg of 10 for XBQT15, XBQU15 Series
XBMZB5-10PK	White blank marker strip external labeling, pkg of 10 for XBQT15, XBQU15 Series
XBMZBF6-10PK	White blank marker strip external labeling, pkg of 10 for XBQT25, XBQU25 Series
XBMZB6-10PK	White blank marker strip external labeling, pkg of 10 for XBQT25, XBQU25 Series
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') slotted
XBAES35C-50PK	1-screw mounted end stop, pkg of 50
XBAES35T-50PK	3-screw mounted end stop, pkg of 50
XBAES35N-50PK	Snap-on end stop, pkg of 50

Ordering Examples: XBQT15-50PK, IDC terminal blocks, XBACQT15-10PK, end covers, XBANS3575P, DIN rail.

XBQU25-50PK, hybrid terminal blocks, XBACQU25-10PK, end covers, XBMZB6-10PK, blank marker strips, XBANS3575P DIN rail.

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