

**Terminal Box with Optional Protection****TELECOM OUTSIDE PLANT****Use**

These are used in terminating cables of secondary telephone networks to the cable pairs of subscriber lines.

The VX modular connection system is used for making the connections and allows pairs to be selectively protected by the use of plug-in modules against overvoltages, overcurrents, or unwanted frequencies. The provision of a remote testing capability is another option.

**Description**

The box consists of a body and cover which houses a VX stubbed block. Provision for wall mounting is incorporated in the body of the box.

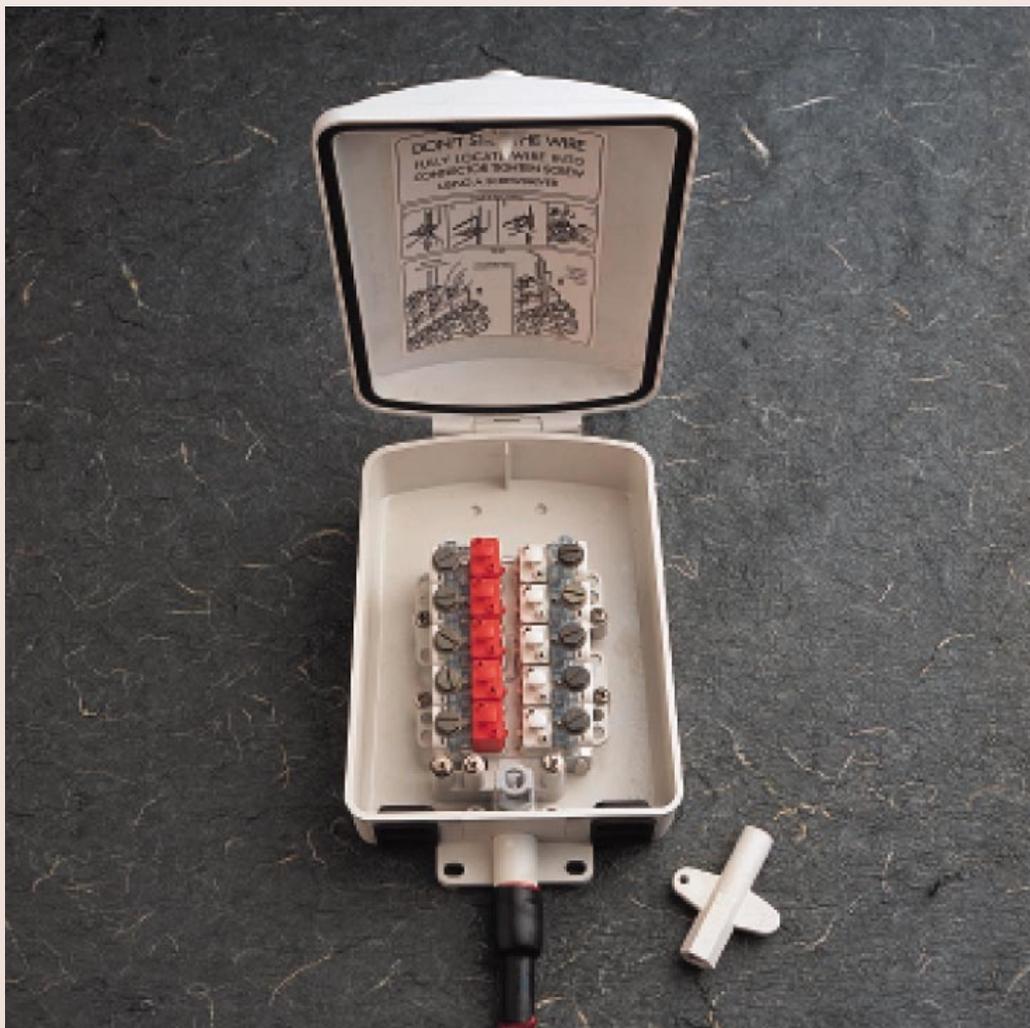
The lid has various opening positions, which can be selected according to the amount of working space available, and is also fitted with a seal to limit water entry.

Grommets are provided for dropwire access (2 x 2 for small pair-counts and 2 x 4 for 21 pairs and above).

The box locking mechanism is mounted through the cable stub and is effective on closing the box; to open the box again a special key or a screwdriver is required depending upon the lock type.

The terminal block is manufactured separately and then screwed into the box. Blocks can be manufactured from 5 to 20 pairs in units of 5 and a terminal for pilot pairs may also be provided.

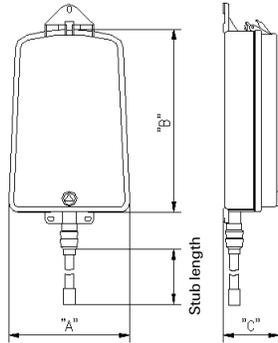
The ground terminals of each pair are electrically connected to the cable shielding and to an external ground terminal. The unit is sealed with resin and the cable-block connection is sealed with heat-shrinkable tubing.



V X - T B

# VX-TB

## Dimensions



	"A"	"B"	"C"
10 P.	155	195	64
20 P.	180	269	64

## Ordering information

Description	Number of pairs	Plug-in module configuration	Plug-in module test access type	Stub cable length (m)	Order number
VX-TB-11-P028	10 + talk pair	Continuity	Pins	2.8	278981-000
VX-TB-11-PG04-028	10 + talk pair	230 V GDT	Pins	2.8	839954-000
VX-TB-21-P028	20 + talk pair	Continuity	Pins	2.8	540531-000

For other configurations, please consult your local Tyco Electronics sales engineer.

## Specifications

### Contact characteristics

Drop wire connector	
Gauge range:	0.4 to 1.2 mm diameter
Insulation diameter:	5 mm maximum diameter
Current conducting capacity	20 A, 10 A per conductor for 10 minutes at least without causing deformation to the module*
Insulation resistance	
Dry atmosphere:	$>10^{12} \Omega$
Damp atmosphere (ASTM D618, procedure F):	$>10^{12} \Omega$
Salt fog (ASTM B117):	$>10^{10} \Omega$
Immersion in water (15 days in 3% NaCl solution):	$>10^{10} \Omega$
Contact resistance	
$R_{\text{material}} + R_{\text{bridge contacts}} + R_{\text{wire contacts}}$ :	$<10 \text{ m} \Omega$
Increase in contact resistance	
After climatic tests:	$<2.5 \text{ m} \Omega$
After 50 reinsertions:	$<2.5 \text{ m} \Omega$
Dielectric strength:	$>3,000 \text{ Vdc}$ for 1 minute

### Mechanical characteristics

Base:	Polycarbonate RAL 7035
Cover:	Polycarbonate RAL 7035
Cover seal:	Black neoprene
Heat-shrink tubing:	Polyethylene with adhesive
Drop wire housing screw:	Special passivated direct + lacquered Zamac alloy
Drop wire housing body:	Transparent polycarbonate
Body:	V0 glass-fiber reinforced polycarbonate
Insertion contacts:	Tinned phosphor bronze
Ground contacts:	Cu-Zn-Ni-Ag alloy
Continuity contacts:	Tinned hard brass
Lower sealant:	Polymeric resin
Upper cable sealant:	Silicone fluid
Pair/drop wire bearing cover:	Polycarbonate
Plug-in module body:	V0 glass-fiber reinforced polycarbonate
Plug-in module sealant:	Gel
"O" ring:	EPDM
Grommets:	EPDM
Cable / drop wire membrane:	Thermoplastic rubber

\* If  $> 20 \text{ A}$  up to  $30 \text{ A}$  is required, this is possible using a different GDT.

Tyco and VX are trademarks of Tyco International.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, Tyco Electronics makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. Tyco Electronics' obligations shall only be as set forth in Tyco Electronics' Standard Terms and Conditions of Sale for this product and in no case will Tyco Electronics be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of Tyco Electronics products should make their own evaluation to determine the suitability of each such product for the specific application.

### Mondragon Telecommunications

Polígono industrial Mediterráneo  
C/. la Fila, parcela 1  
46550 Albuixech-Valencia, España  
Tel.: 34-96-141 70 72  
Fax: 34-96-141 74 15

### Tyco Electronics Raychem NV

**Telecom Outside Plant**  
Diestsesteenweg 692  
3010 Kessel-Lo, Belgium  
Tel.: 32-16 351 011  
Fax: 32-16 351 697  
www.tycoelectronics.com

### Tyco Electronics Corporation

8000 Purfoy, Rd.  
Fuquay-Varina, NC 27526, USA  
Tel.: 1-919-557 8600  
Fax: 1-919-557 8404