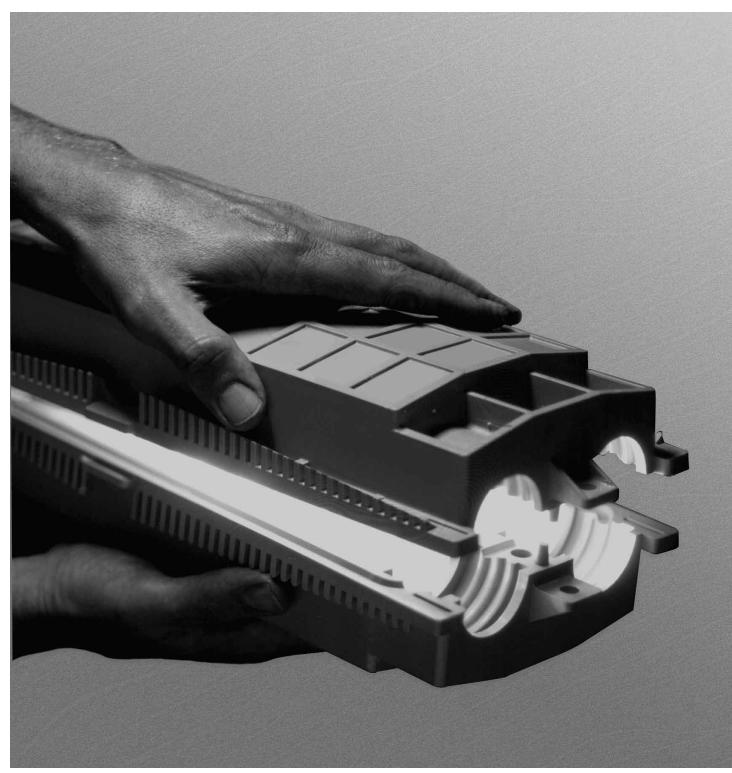


# Z Watertight Closure System for Protecting Copper Conductors



### 3M™ Z Watertight Closure System

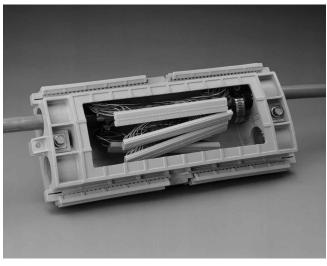
3M Z Watertight Closure System is one of the most versatile closure systems for protecting copper conductors. The Z Watertight Closure is an economical closure which is available in one size, from one stock, in a kit that includes all the components required for quick and easy installation.

The system can organize and protect mechanical and fusion fiber optic splices in the outside plant and buildings of up to 18 fiber optic splice modules. The Z Watertight closure system is watertight and non-pressurized which makes protecting up to 300-pairs of copper conductor splices a breeze.

The Z Watertight closure also comes in a fire-retardant version for a variety of innovative building applications. The Z Watertight closure can also be enclosed inside another closure, like the 3M<sup>TM</sup> 2-Type Pressurized Closure.

#### **Applications**

- · Modular connectors
- · Discrete connectors
- Fiber optic splices
- Aerial
- Building distribution
- Termination of drop cables
- Encapsulated inside another closure



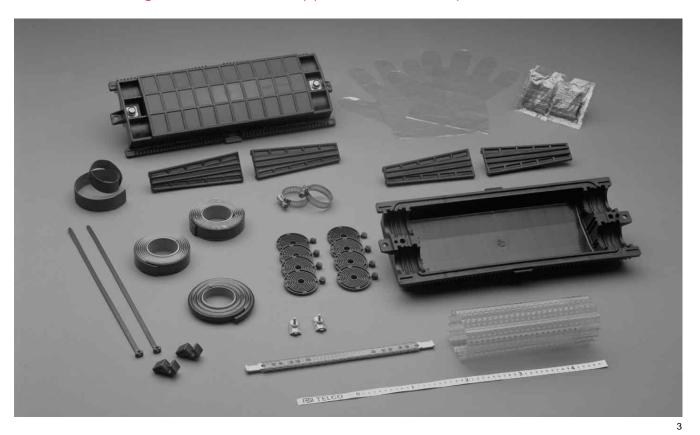
Z Watertight fire retardant closure

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# The Z Watertight Closure System

Features	Benefits	
Up to 18 fiber optics	Fiber distribution closure	
Up to 300-pair copper conductor splices	Copper distribution closure	
Will accommodate the entrance of up to 4 cables, 1.6 in. (41 mm) in diameter	Large cable diameter	
Straight and multiple branch splices	Inline or butt splice	
Corrosion resistant	All stainless steel parts	
Fire retardant for building applications	Good for indoor use	
May be wall mounted	Additional applications	
Lightweight	Easy to use	
Watertight	Good for outdoor use	
Reenterable	No additional parts	
One size from one stock	Lower inventory costs	
All components in one kit	Lower inventory costs	
No special tools required	Ease of installation	

# 3M<sup>™</sup> Z Watertight Closure for Copper Conductor Splices



#### Each complete LLZ-416 contains:

- Closure assembly with bolts
- Side lock channels
- Bonding bar with insulating sleeve\*
- Shield connectors\*
- Hose clamps
- Back cover support clips with cable ties
- Solvent cleaning wipe and plastic gloves
- Cable sheath scuff
- Cable diameter measuring tape
- Universal slotted washers for sealing cable entrances
- Cable collar build-up R-Type self forming gasket material
- Closure sealing R-Type self forming gasket material
- Splice Wrap
- Instructions

Two Cable Branch Kit

#### Two Cable Branch Kit

Provides branching adapter spool and internal bonding for two additional cables.

#### Re-entry Kit

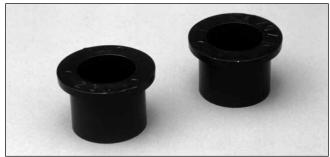
Provides replacement R-Type Self Forming Gasket Material for each re-entry.



Re-entry Kit

### Plugging Spool Kit

Provides two plugging spools for plugging unused cable openings.



Plugging Spool Kit

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<sup>\*</sup>For two-way splice only.

## 3M<sup>TM</sup> Z Watertight Closure System

Installation Procedure – 3M™ Z Watertight Closure for Copper Conductor Splices

- 1. Prepare collar and install internal sheath continuity.
- 2. Position cables into back cover.

- 3. Place R-Type self forming gasket material between cover halves.
- Secure bolts and side lock channels for water-tight seal.

# Ordering Information for LL "Z" Series

Product Number	Descript Dimens		Max. Tray Stacked/			•	/ Weight per Min. Order	
Number	mm (in.)		Hinged	Package	Multipl	9	(lbs.)	051138-
LL"Z" Ligh	tLinker Fiber (	Closures Ur	niversal Inlir	ne and Butt				
(LL-FOT001 tra	ays are not included	l)						
LLZ-416	Fiber Closu or 2 x 2 C		4/4	1	1	2.7	2.7 (6.0)	
LLZ-416-FR	Fiber Closu or 2 x 2 Cables/F		4/4	1	1	3.	1 (7.0)	78839
Product Number	Description	Max. Number Cable Pair	Length mm (in.) s	Width mm (in.)	Max. No. Height mm (in.)	Approx. Weight kg (lbs.)	Min. Order (each)	UPC 051138 -
Copper Clo	sure Selection	n						
2Z2AAA-510	Standard	300	419 (16.5)	) 114 (4.5)	165 (6.5)	2.3 (5)	1	77489
2Z4AAA-510	Fire Retardant*	300	419 (16.5)	) 114 (4.5)	165 (6.5)	2.7 (6)	1	77494

Standard Package = Kit, Minimum Order/Ordering Mutiple = 1 Kit.

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#### Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one year from the date of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.



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<sup>\*</sup> Gray in color.