

General

This instruction sheet provides the description and installation procedures for the Z-IDC Single-Pair Protector Family.

Note: For additional information refer to Z-IDC Reference Manual, Material ID 860 225 077.

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Single-Pair Protector Family Description

The Z-IDC Single-Pair Protectors provide voltage-only protection or voltage and sneak current protection to all cable pairs terminated on a Z-IDC connector module. In general, the protector units are for use with the outside plant connecting blocks. The voltage-only single-pair protector consists of a three-element gas discharge tube with a fail-safe device to prevent excessive heat buildup in the presence of a sustained high voltage condition. When the fail-safe device operates, it provides a low-resistance metallic path to ground. The voltage and sneak current single-pair protector consists of a three-element gas discharge tube with a fail-safe device and two resettable positive temperature coefficient thermistor devices.

The Z-IDC Single-Pair Protectors are available in white or gray housings to distinguish which side of the Z-IDC connector module to plug it into depending on the type of connector modules being used. See Table A.

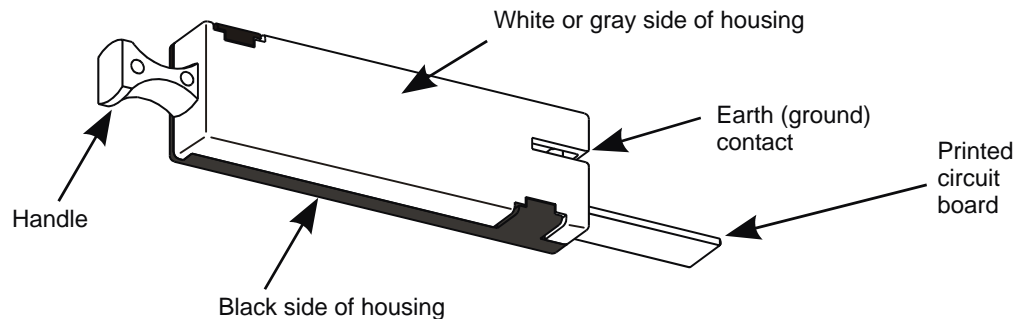


Figure 1. Single-Pair Protector

Table A. Z-IDC Single-Pair Protector Housings

	Normally Closed 10 pr Connector 107665473	Normally Closed 8 pr Connector 107665465	Normally Open 10 pr Connector 700202526	Normally Open 8 pr Connector 760056994
107926701 (gray)	Insert into gray side of connector	Insert into gray side of connector	N/A	N/A
107926719 (white)	Insert into white side of connector	Insert into white side of connector	Insert into white side of connector	Insert into white side of connector
107926727 (gray)	Insert into gray side of connector	Insert into gray side of connector	N/A	N/A
107926735 (white)	Insert into white side of connector	Insert into white side of connector	Insert into white side of connector	Insert into white side of connector
760060103 (gray)	Insert into gray side of connector	Insert into gray side of connector	N/A	N/A
760060111 (white)	Insert into white side of connector	Insert into white side of connector	Insert into white side of connector	Insert into white side of connector

Tools Required

- Pliers

Install Earth (Ground) Bar



WARNING:

Earth (ground) bar must be installed first for protection to be functional.

To install the earth ground:

1. Determine which side of the connector module to plug the protector in, using Table A.
2. Connector module must first be installed on mounting bracket.
3. Engage earth (ground) bar contacts at each end onto connector module mounting tabs. Refer to Figure 2. When using the hinged type mounting brackets the earth (ground) bar engages the back end of the connector module mounting tabs.
4. Insert earth (ground) bar tabs into connector module cap slots.
5. Press earth (ground) bar firmly to seat against connector module cap (use blunt-end pliers or similar tool).

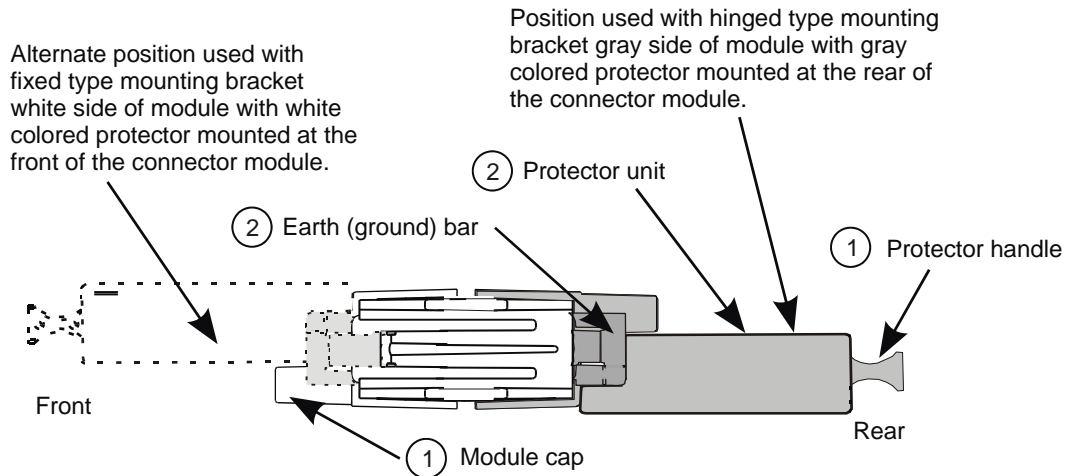


Figure 4. Side View of Module with Rear Mounted Protector (Line or Vertical Side of Frame)

Note: The normally open connector module will only use a fixed type mounting bracket since the rear (gray side) of the connector module always has a normally open plug inserted into it.

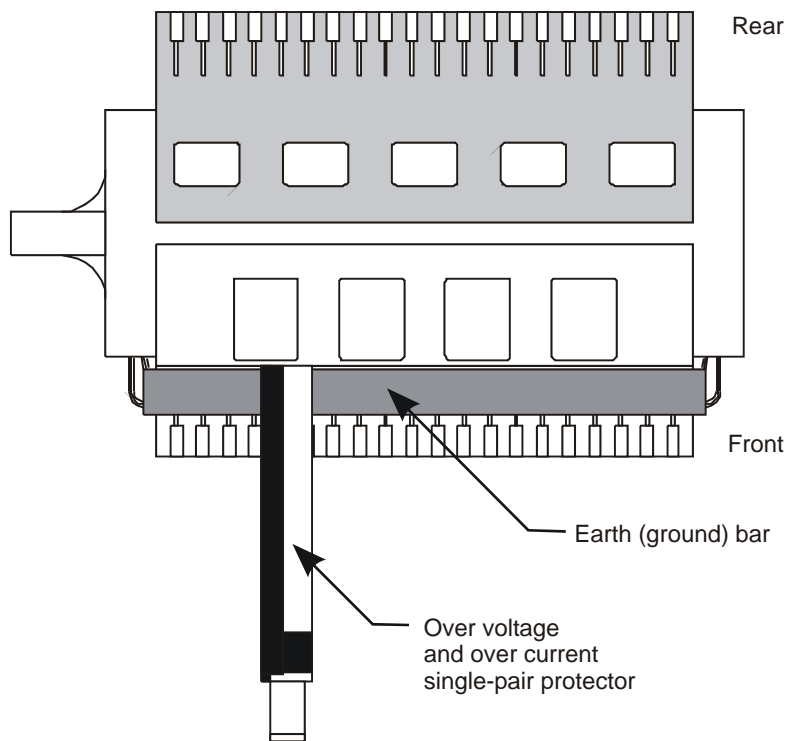


Figure 5. Top View of Single-Pair Protector Front Mounted on Exchange Side of MDF When Using "Fixed" Type Connecting Block Mounting Bracket (normally closed or normally open connectors can be used).

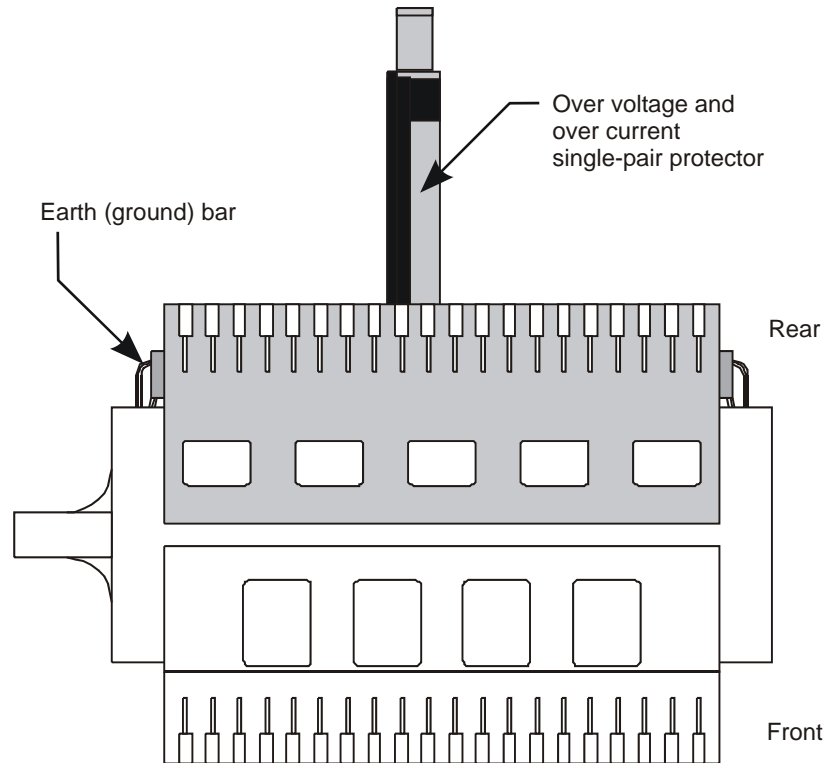


Figure 6. Top View of Single-Pair Protector Rear Mounted on Exchange Side of MDF When Using "Hinged" Type Connecting Block Mounting Bracket (only normally closed connector modules used).

Wiring and Fuse Link Information

The fuse link used in conjunction with the Z-IDC Single-Pair Protectors shall be 26 AWG in size. The Z-IDC Connector Module in which these Single-Pair Protectors are installed shall be terminated with 24 AWG minimum sized conductors. When a single conductor is terminated in an insulation displacement contact (IDC) slot in the connector module a maximum conductor size of 20 AWG may be used. However, if two conductors are to be terminated in the same IDC slot then a maximum conductor size of 22 AWG may be used.

In order to ensure equipment protection and operator safety, all positions of the connector module shall be populated with single-pair protectors after any one of the IDC positions in the connector has been wired.

Ordering Information

Table B and Table C list the Single-Pair Protector units that are currently available. Additional codes may become available – check with your CommScope representative for the latest information.

Table B. Single-Pair Protector Units Ordering Information

Material ID	Apparatus Code	Protection Provided	Handle Color	Voltage Breakdown	PTC Hold Current	QTY
107 926 701	ZIDC-1G-G3B-PC-BN	Voltage & Sneak Current	Gray	184-276 V	120 mA	1*
107 926 719	ZIDC-1W-G3B-PC-BN	Voltage & Sneak Current	White	184-276 V	120 mA	1*
107 926 727	ZIDC-1G-G3B-PD-BN	Voltage & Sneak Current	Gray	184-276 V	145 mA	1*
107 926 735	ZIDC-1W-G3B-PD-BN	Voltage & Sneak Current	White	184-276 V	145 mA	1*
760 060 103	ZIDC-1G-G3B-NA-BN	Voltage	Gray	184-276 V	N/A	1*
760 060 111	ZIDC-1W-G3B-NA-BN	Voltage	White	184-276 V	N/A	1*

* Earth bars must be ordered separately, see Table C.

Note: If protectors are ordered individually, earth (ground) bars must be ordered separately. Refer to Table C.

Table C lists the ordering information and Figure 2 shows the earth (ground) bar on a 10-pair connector module.

Table C. Earth (Ground) Bar Ordering Information

Material ID	Apparatus Code	Description
107 660 391	ZIDC-10-010	Package of ten earth (ground) bars for single-pair protector units, fits 8- or 10-pair connector modules.