

Medium Voltage (MV) Accessories Catalog

LINKING ACCESSORIES TO CABLE SOLUTIONS



Linking power grids to sustainability

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Prysmian
Group

TERMS AND CONDITIONS

Prysmian shall have the right at any time prior to delivery or collection of the products to change their specification in accordance with industry specifications.

Please contact the Sales Office for lead times and details of minimum order quantities. Special delivery requirements for example a.m. next day deliveries, will be charged at cost. This cost will be confirmed at time of order.

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MV SPLICES



THE LOW-PROFILE, COLD-SHRINK, RANGE-TAKING,
105°C-OPERATING-TEMPERATURE CABLE SPLICE

Prysmian introduces its latest cold-applied splice technology into the North American medium voltage cable accessories market. The Elaspeed® splice is quick and easy to install, saving time and cost over alternative methods.

The Elaspeed® is not a molded splice. It is manufactured in exactly the same way as extruded dielectric cable. The core is constructed from ethylene propylene rubber (EPR) on a vertical triple extruder which maintains its concentricity to the tightest tolerances possible. It is then tested as a cable to ensure long and trouble-free operation under a wide variety of applications and conditions.

The Elaspeed® splice has the highest physical and dielectric properties and it utilizes the Prysmian Eprotenax™ insulation system.

When manufacturing is complete, all components that are integral to the splice (conductor electrode, high permittivity layer, insulation, semi-conductive insulation shield, metallic shield and jacket) are expanded onto a self-ejecting support tube, which when released allows the splice to shrink onto the cable creating a tight circumferential interface.

Why use Elaspeed®?

Testing

The Elaspeed® splices meet or exceed the stringent test criteria of IEEE 404. The core of each Elaspeed® splice is factory tested to ensure the splice will maintain the integrity of the electrical cable system on which it is installed.

Safety

The Elaspeed® splice is installed without the use of heat or open flames, which can be hazardous in many locations.

Watertight

The circumferential pressure of the Elaspeed® jacket in conjunction with the cold flow properties of the mastic supplied with the splice kit, will not allow any ingress of water. The Elaspeed® splice has passed external water pressure tests of 45 psi. In addition, the tight interface between the cable and splice body can withstand internal pressures up to 30 psi.

Installation

The Elaspeed's® self-ejecting tube along with its integral construction design, makes it quick, easy and less costly to install.

Compatibility

The Elaspeed® splice is compatible with all solid dielectric extruded shielded cables. It also can be used with all types of metallic shielding.

Range Taking Capability

A major advantage of the Elaspeed® splice is its versatility. The splice series covers a wide range of sizes from #2 AWG to 1000 kcmil and voltages from 5kV thru 35kV. Individual splices are capable of joining cables of different insulation thickness and conductor sizes.

Small Profile

Elaspeed® splices behave like EPR cable when it comes to bending in tight manhole situations. Splices can be bent to the same radius as the cable on which it is applied. Also, its small profile consumes noticeably less installation space.

Reliability

Elaspeed® splices are reliable, because they always shrink uniformly, and there is only one complete unit to shrink. No matter how many splices are installed, the last splice will be as reliable as the first.

MV 1/C STRAIGHT SPLICES

Electrical characteristics

Strong physical properties and moisture resistance are only some of the improved Elasppeed® splice characteristics when compared to alternative splice designs. The Eprotenax™ insulation utilized in Elasppeed® splices has been used in service up to 150kV and in medium voltage applications since 1963.

A fundamental measure of expected splice performance is its reaction to severe electrical conditions. Elasppeed® splices meet or exceed the requirements of IEEE 404 as shown below:
Basic Impulse Level

Voltage Class	IEEE 404 Test Level	Elasppeed Splice
15kV	110kV	150kV
25kV	150kV	170 kV
35kV	200kV	220 kV

Elasppeed® splices have been used on EPR insulated electrical systems where the conductor temperature has been maintained at 105°C for a complete test sequence.

Request copies of IEEE Transaction Paper #95 UM01 6-6 PWRD.

Design flexibility

Elasppeed® splices are available with several alternative shield/neutral connection systems. These include constant force springs, LC Shield® connection jumper kits or a combination of these shield connectors.

Further design flexibility is provided through the use of separate jackets over Elasppeed® splice cores, allowing the installer to connect existing concentric neutral wires before jacketing the splice.

These options may permit further inventory reduction by reducing the number of items in stock.

Qualification test copies are available on request.
Contact your Prysmian representative.



Breaking the internal connection of the support tube



Support tube in self-ejecting mode



Connecting the shield braid to the cable metallic shield



Applying sealing mastic



Jacket recovery



The completed installation

MV 1/C STRAIGHT SPLICE

15kV - 100% Insulation Level (175mil)

Part Number	Cable Size Range	Insulation Diameter Min. inches	Jacket Diameter Max. Inches
15SDJBe	2 - 3/0	0.68	1.26
15SEJCe	1/0 - 250	0.75	1.34
15SFJCe†	4/0 - 500	0.91	1.73
15SHJCe†	250 - 500	0.96	1.81
15SIPJCe	500 - 750	1.09	2.05
15SIJCe	750 - 1000	1.26	2.44

15kV - 133% Insulation Level (220 mil)

Part Number	Cable Size Range	Insulation Diameter Min. inches	Jacket Diameter Max. Inches
15SDJBe	2 - 2/0	0.68	1.26
15SEJCe*	2 - 4/0	0.75	1.34
15SFJCe	3/0 - 500†	0.91	1.73
15SHJCe	4/0 - 500†	0.96	1.81
15SIPJCe	350 - 750	1.09	2.05
15SIJCe	500 - 1000	1.26	2.44

25kV - 100% Insulation Level (260 mil)

Part Number	Cable Size Range	Insulation Diameter Min. inches	Jacket Diameter Max. Inches
25SDJBe	1 - 1/0	0.68	1.26
25SEJCe	1 - 2/0	0.75	1.34
25SFJCe**	1/0 - 350	0.91	1.73
25SHJCe	2/0 - 500	0.96	1.81
25SIPJCe	250 - 500	1.09	2.05
25SIJCe	500 - 1000	1.26	2.44

28kV - 100% Insulation Level (280 mil)

Part Number	Cable Size Range	Insulation Diameter Min. inches	Jacket Diameter Max. Inches
28SEJCe	1 - 2/0	0.75	1.34
28SFJCe	1 - 350	0.91	1.73
28SHJCe	1/0 - 500	0.96	1.81
28SIPJCe	4/0 - 500	1.09	2.05
28SIJCe	350 - 1000	1.26	2.44

35kV - 100% Insulation Level (345 mil)

Part Number	Cable Size Range	Insulation Diameter Min. inches	Jacket Diameter Max. Inches
35SHJC	1 - 250	0.96	1.81
35SIPJC	1/0 - 500	1.09	2.05
35SIJC	4/0 - 1000	1.26	2.44

* These kits will not fit #2 solid conductor

** Splice kit will not fit 1/0 solid conductor

† For copper tape shielded cables this range can be extended to 750kcmil

Getting the right connector number (if required):

Connectors can be included by adding the appropriate part number suffix:

Conductor Size Part Number Suffixes

Conductor Size	Suffix	Conductor Size	Suffix
2	-2	250	-250
1	-1	350	-350
1/0	-1/0	500	-500
2/0	-2/0	750	-750
4/0	-4/0	1000	-1000

Also, specify your preference of copper (-CU) or aluminum (-AL).

Example:

A copper connector for a splice kit for a 750 kcmil conductor, 15kV with 100% insulation level, would be 15SIJCe-750-CU.

Notes:

- 1) When selecting kits at the top end of the use range, check for proper fit over jacket. Also consider the increased diameter associated with CN wire folded back over cable jacket.
- 2) The selection guide is based on jacketed concentric neutral cables. When using LC or copper tape shield cables, the range may be extended upwards.
- 3) The 15SDJBe and 25SDJBe kits contain a copper #3 AWG equivalent shielding braid. All other splices contain a copper 1/0 AWG equivalent shielding braid.
- 4) The lower case "e" in the part numbers 15 thru 28kV indicates the splices have a built-in electrode. This eliminates the need to apply high permittivity mastic over the connector. The three larger (H, IP and I) 35kV splices are supplied with high permittivity mastic.
- 5) Prysmian Elaseed splices meet IEEE 404 specifications.

Contact your Prysmian sales representative for more information such as data on size transition limits or for conductor sizes not shown.



SECTION ONE - SPLICES

MV AIRGUARD™ 3/C AND 1/C SPLICES

Prysmian's patented AIRGUARD™ cable is a superior alternative for CCW type armored cables. Prysmian has developed a quick and easy splice for single and three conductor AIRGUARD™ cable. Connectors can be supplied in the kit as required.

1/C 5kV Splices

Part Number	Cable Size Range
AGJ1CD5H	1/0 - 250
AGJ1CE5H	350 - 500
AGJ1CF5H	750-1000

1/C 15kV Splices

Part Number	Cable Size Range
AGJ1CD15H	#2 - 2/0
AGJ1CE15H	4/0 - 250
AGJ1CIP15H	350 - 500
AGJ1CI15H	750 - 1000

1/C 25kV Splices

Part Number	Cable Size Range
AGJ1CF25H	#1 - 350
AGJ1CIP25H	500 - 750
AGJ1CI25H	1000

1/C 35kV Splices

Part Number	Cable Size Range
AGJ1CH35H	1/0 - 250
AGJ1CIP35H	350 - 500
AGJ1CI35H	750 - 1000

Prysmian Elaseed splices meet IEEE 404 specifications.

Contact your Prysmian sales representative for more information, including data on size transition limits.

3/C 5kV Splices

Part Number	Cable Size Range
AGJ3CD5H	1/0 - 250
AGJ3CE5H	350 - 500
AGJ3CF5H	750-1000

3/C 15kV Splices

Part Number	Cable Size Range
AGJ3CD15H	#2 - 2/0
AGJ3CE15H	4/0 - 250
AGJ3CF15H	350 - 500
AGJ3CIP15H	750 - 1000

3/C 25kV Splices

Part Number	Cable Size Range
AGJ3CF25H	#1 - 350
AGJ3CIP25H	500 - 750
AGJ3CI25H	1000

3/C 35kV Splices

Part Number	Cable Size Range
AGJ3CH35H	1/0 - 250
AGJ3CIP35H	350 - 500
AGJ3CI35H	750 - 1000

Getting the right connector number (if required):

Connectors can be included by adding the appropriate part number suffix:

Conductor Size Part Number Suffixes

Conductor Size	Suffix	Conductor Size	Suffix
2	-2	250	-250
1	-1	350	-350
1/0	-1/0	500	-500
2/0	-2/0	750	-750
4/0	-4/0	1000	-1000

Also, specify either a copper (CU) or aluminum (AL) connector.

Example:

A copper connector for a splice kit for a 750 kcmil conductor, 15kV three conductor would be AGJ3CIP15H-750-CU.

SPLICES FOR AIR BAG™ AND NON-ARMORED CABLE

Prysmian's AIR BAG™ cable is a high performance alternative to traditional aluminum interlocked armored cable. Prysmian's Elaseed® splice technology is made with EPR insulation just like the cable core to provide a continuous operating temperature of 105°C. Connectors can be supplied in the kit as required.

1/C 5kV Splices

Part Number	Cable Size Range
ABJ1CD5H	1/0 - 250
ABJ1CE5H	350 - 500
ABJ1CF5H	750-1000

1/C 15kV Splices

Part Number	Cable Size Range
ABJ1CD15H	#2 - 2/0
ABJ1CE15H	4/0 - 250
ABJ1CIP15H	350 - 500
ABJ1CI15H	750 - 1000

1/C 25kV Splices

Part Number	Cable Size Range
ABJ1CF25H	#1 - 350
ABJ1CIP25H	500 - 750
ABJ1CI25H	1000

1/C 35kV Splices

Part Number	Cable Size Range
ABJ1CH35H	1/0 - 250
ABJ1CIP35H	350 - 500
ABJ1CI35H	750 - 1000

Prysmian Elaseed splices meet IEEE 404 specifications.

Contact your Prysmian sales representative for more information, including data on size transition limits.

3/C 5kV Splices

Part Number	Cable Size Range
ABJ3CD5H	1/0 - 250
ABJ3CE5H	350 - 500
ABJ3CF5H	750-1000

3/C 15kV Splices

Part Number	Cable Size Range
ABJ3CD15H	#2 - 2/0
ABJ3CE15H	4/0 - 250
ABJ3CF15H	350 - 500
ABJ3CIP15H	750 - 1000

3/C 25kV Splices

Part Number	Cable Size Range
ABJ3CF25H	#1 - 350
ABJ3CIP25H	500 - 750
ABJ3CI25H	1000

3/C 35kV Splices

Part Number	Cable Size Range
ABJ3CH35H	1/0 - 250
ABJ3CIP35H	350 - 500
ABJ3CI35H	750 - 1000

Getting the right connector number (if required):

Connectors can be included by adding the appropriate part number suffix:

Conductor Size Part Number Suffixes

Conductor Size	Suffix	Conductor Size	Suffix
2	-2	250	-250
1	-1	350	-350
1/0	-1/0	500	-500
2/0	-2/0	750	-750
4/0	-4/0	1000	-1000

Also, specify either a copper (CU) or aluminum (AL) connector.

Example:

A copper connector for a splice kit for a 750 kcmil conductor, 15kV three conductor would be ABJ3CIP15H-750-CU.

SECTION ONE - SPLICES

SPLICES FOR ARMORED AND TECK CABLE

Prysmian has developed a quick and easy splice for three conductor-armored cable. Prysmian's splices cover the full range of traditional aluminum interlocked armored MV-105 cables as well as TECK Cable. Connectors can be supplied in the kit as required.

1/C 5kV Splices

Part Number	Cable Size Range
AJ1CD5H	1/0 - 250
AJ1CE5H	350 - 500
AJ1CF5H	750-1000

1/C 15kV Splices

Part Number	Cable Size Range
AJ1CD15H	#2 - 2/0
AJ1CE15H	4/0 - 250
AJ1CIP15H	350 - 500
AJ1CI15H	750 - 1000

1/C 25kV Splices

Part Number	Cable Size Range
AJ1CF25H	#1 - 350
AJ1CIP25H	500 - 750
AJ1CI25H	1000

1/C 35kV Splices

Part Number	Cable Size Range
AJ1CH35H	1/0 - 250
AJ1CIP35H	350 - 500
AJ1CI35H	750 - 1000

Prysmian Elaseed splices meet IEEE 404 specifications.

Contact your Prysmian sales representative for more information, including data on size transition limits.

3/C 5kV Splices

Part Number	Cable Size Range
AJ3CD5H	1/0 - 250
AJ3CE5H	350 - 500
AJ3CF5H	750-1000

3/C 15kV Splices

Part Number	Cable Size Range
AJ3CD15H	#2 - 2/0
AJ3CE15H	4/0 - 250
AJ3CF15H	350 - 500
AJ3CIP15H	750 - 1000

3/C 25kV Splices

Part Number	Cable Size Range
AJ3CF25H	#1 - 350
AJ3CIP25H	500 - 750
AJ3CI25H	1000

3/C 35kV Splices

Part Number	Cable Size Range
AJ3CH35H	1/0 - 250
AJ3CIP35H	350 - 500
AJ3CI35H	750 - 1000

Getting the right connector number (if required):

Connectors can be included by adding the appropriate part number suffix:

Conductor Size Part Number Suffixes

Conductor Size	Suffix	Conductor Size	Suffix
2	-2	250	-250
1	-1	350	-350
1/0	-1/0	500	-500
2/0	-2/0	750	-750
4/0	-4/0	1000	-1000

Also, specify either a copper (CU) or aluminum (AL) connector.

Example:

A copper connector for a splice kit for a 750 kcmil conductor, 15kV three conductor would be AJ3CIP15H-750-CU.

MV BRANCH JOINTS AND LIVE END CAPS

Prysmian's branch joint (or also commonly called a "wye" splice) is an excellent method for splitting the main feeder cable into two cables that can be directed to other loads.

The branch joint utilizes the Elaseed® technology (with EPR insulation) and a shear bolt connector to make a very quick and reliable connection. The branch joint can accommodate several conductor sizes (4/0 AWG to 500 kcmil up to 15kV) allowing one joint to fill many applications while maintaining a continuous operating temperature of 105°C. Prysmian's Branch Joints meet IEEE 404 specifications.

Connectors can be supplied in the kit as required.

MV Branch Joints

Part Number	Cable Size Range	Voltage
15WF4/0-500	4/0 AWG - 500 kcmil	up to 15kV



Prysmian has expanded its cold shrink technology to include a live end cap. This provides the customer the flexibility of installing medium voltage cable that can be fully energized but spliced or terminated at a later time. Typically this is performed after a MV Branch Joint where the extra cable end is not ready within the network to carry load.

MV Live End Cap

Part Number	Cable Size Range	Voltage
15SFJCe-EC	4/0 AWG - 500 kcmil	up to 15kV



MV TRANSITION SPLICES

Prysmian MV transition splices are designed to give the reliability required when splicing three or single conductor paper lead cable (PILC) to three or one solid dielectric polymeric cables.

The major cold shrink components of the splice kits are manufactured from specialty formulated EPR materials. These components when installed shrink uniformly to create a joint that not only can withstand high electrical stresses, but also performs well against high physical stresses caused by internal oil pressure and external water pressure. Additionally, the trifurcating break out boot and splice jackets exhibit excellent resistance to abrasion. Prysmian's Transition splice meets or exceeds IEEE 404 and covers voltages from 5kV to 28kV. Connectors can be supplied in the kit as required.

Note: The sizes shown are based on industry standard 100% cable insulation levels. Because of the variables covering many PILC cables, please contact Prysmian with cable details before making a final kit selection.



3/C 15kV Splices

Part Number	Cable Size Range
15-E-T3	PILC (1/0 - 4/0 AWG) to 1/C (1/0 - 250 kcmil)
15-F-T3	PILC (4/0 - 500 kcmil) to 1/C (4/0 - 600 kcmil)
15-IP-T3	PILC (500 - 750 kcmil) to 1/C (350 - 750 kcmil)

3/C 25kV Splices

Part Number	Cable Size Range
25-E-T3	PILC (#1 - 1/0 AWG) to 1/C (#1 - 2/0 AWG)
25-F-T3	PILC (4/0 - 350 kcmil) to 1/C (4/0 - 500 kcmil)
25-IP-T3	PILC (350 - 750 kcmil) to 1/C (250 - 750 kcmil)

1/C 15kV Splices

Part Number	Cable Size Range
15-E-T1	PILC (1/0 - 4/0 AWG) to 1/C (1/0 - 250 kcmil)
15-F-T1	PILC (4/0 - 500 kcmil) to 1/C (4/0 - 600 kcmil)
15-IP-T1	PILC (500 - 750 kcmil) to 1/C (350 - 750 kcmil)

1/C 25kV Splices

Part Number	Cable Size Range
25-E-T1	PILC (#1 - 1/0 AWG) to 1/C (#1 - 2/0 AWG)
25-F-T1	PILC (4/0 - 350 kcmil) to 1/C (4/0 - 500 kcmil)
25-IP-T1	PILC (350 - 750 kcmil) to 1/C (250 - 750 kcmil)

LV SPLICES

LV AIRGUARD™ Splices

Prysmian's three conductor LV AIRGUARD splices provide a traditional heat shrink splice with an overall heat shrink jacket. A mechanical connector is provided to ground the AIRGUARD™ layer. Connectors can also be provided in the kit as required.

3/C LV AIRGUARD Splices 600V

Part Number	Cable Size Range
15WF4/0-500	#8-#2 AWG
AGJ3CB600V	#1-4/0 AWG
AGJ3CC600V	250-500 kcmil
AGJ3CD600V	750-1000 kcmil

LV Armored Cable Splices

Prysmian's three conductor armored cable splices are comprised on heat shrinkable components to provide a quick and easy cable splice. Components are also provided to ground the armor layer within the cable. Connectors can be provided in the kit as required.

3/C LV Armored Cable Splices 600V

Part Number	Cable Size Range
AJ3CA600V	#8-#2 AWG
AJ3CB600V	#1-4/0 AWG
AJ3CC600V	250-500 kcmil
AJ3CD600V	750-1000 kcmil

LV AIR BAG™ Splices

Prysmian's three conductor LV AIR BAG™ splices provide a traditional heat shrink splice with an overall heat shrink jacket. Connectors can also be provided in the kit as required.

3/C LV AIR BAG Splices 600V

Part Number	Cable Size Range
ABJ3CA600V	#8-#2 AWG
ABJ3CB600V	#1-4/0 AWG
ABJ3CC600V	250-500 kcmil
ABJ3CD600V	750-1000 kcmil

SECTION TWO - TERMINATIONS

MV 1/C TERMINATIONS

PICT and PCT Series

Prysmian offers a line of indoor and outdoor polymer terminations available for 15kV, 25/28kV and 35kV applications. The Elaseed® outdoor PCT (with sheds) and indoor PICT (without sheds) are medium voltage cold shrink polymer terminations designed for fast, easy reliable installation.

The Elaseed® terminations shrink evenly on the cable as the inner support core is removed. No complicated assembly or heat is required. Simply pull out the support core and allow the termination to shrink in order to create a tight void free interface between the termination and the cable. This also provides a superior moisture seal.

All of the Prysmian PCT and PICT terminations meet or exceed the stringent requirements mandated by the IEEE standard 48 for Class 1 terminations.

Lugs can be supplied in the kit as required.

Getting the right part number

When specifying a termination, replace X in the part number with X = J (Jacketed Concentric Neutral), M (Metallic tape) or L (LC Shield® kit includes LC Shield® Connector)

Example:


A 5kV outdoor termination with an insulation diameter between 0.84-1.38 and Metallic tape (M) would be PCT15M2.

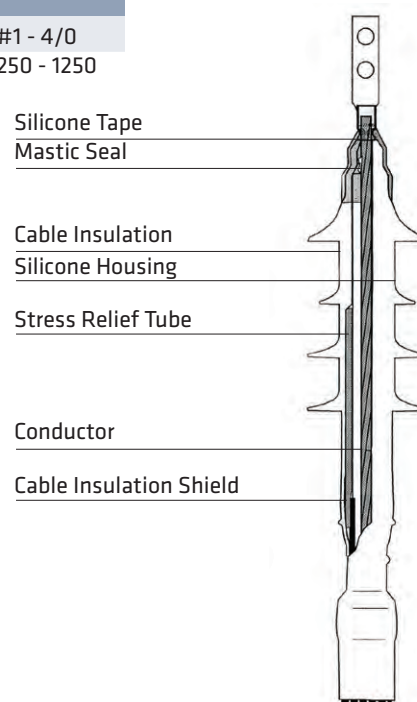
Indoor 1/C MV Terminations

Termination Description			Conductor Size Range				
Part Number	Cable Insulation Diameter Range	Number of Sheds	5kV 100%	8kV 100% 5kV 133%	8kV 133%	15kV 100%	15kV 133%
PICT15X1	0.64" - 1.12"	None	3/0 - 250	2/0 - 250	1/0 - 250	#2 - 3/0	#2 - 2/0
PICT15X2	0.84" - 1.38"	None	350 - 750	350 - 750	350 - 650	4/0 - 600	3/0 - 500
PICT15X4	1.30" - 2.10"	None	1000 - 2000	800 - 2000	750 - 1750	750 - 1500	600 - 1500

Outdoor 1/C MV Terminations

Termination Description			Conductor Size Range				
Part Number	Cable Insulation Diameter Range	Number of Sheds	5kV 100%	8kV 100% 5kV 133%	8kV 133%	15kV 100%	15kV 133%
PCT15X1	0.64" - 1.12"	4	3/0 - 250	2/0 - 250	1/0 - 250	#2 - 3/0	#2 - 2/0
PCT15X2	0.84" - 1.38"	4	350 - 750	350 - 750	350 - 650	4/0 - 600	3/0 - 500
PCT15X4	1.30" - 2.10"	4	1000 - 2000	800 - 2000	750 - 1750	750 - 1500	600 - 1500
Part Number	Cable Insulation Diameter Range	Number of Sheds	25/28kV 100%	25kV 133%	28kV 133%		
PCT25X2	0.84" - 1.38"	6	#1 - 350	#1 - 250	#1 - 4/0		
PCT25X4	1.30" - 2.10"	6	500 - 1250	350 - 1250	250 - 1250		
Part Number	Cable Insulation Diameter Range	Number of Sheds	35kV 100%	35kV 133%	Silicone Tape Mastic Seal		
PCT35X2	0.84" - 1.38"	8	1/0 - 4/0	1/0 - 2/0			
PCT35X4	1.30" - 2.10"	8	250 - 1000	3/0 - 1000			





MV AIRGUARD™ TERMINATIONS

Prysmian's patented AIRGUARD™ cable is a superior replacement for CCW type armored cables. Prysmian has developed a quick and easy termination for AIRGUARD™ cable.

For smaller 5kV sizes (#6 to #1 AWG) we offer a traditional heat shrink termination while the rest of our product offering utilizes cold shrink technology.

Prysmian can provide one or two-hole lugs in the kit so that a complete kit is ready for the jobsite.

1/C 5kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT1CA5-HS*	#6 to #2
AGT1CB5-HS*	#1
AGT1CA5-X	1/0 - 250
AGT1CB5-X	350 - 750
AGT1CC5-X	1000

*Note: Heat shrink versions

Replace X with O (Outdoor) or I (Indoor)

1/C 15kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT1CA15-X	#2 - 2/0
AGT1CB15-X	4/0 - 500
AGT1CC15-X	750 - 1000

Replace X with O (Outdoor) or I (Indoor)

1/C 25kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT1CB25	#1 - 250
AGT1CC25	350 - 1000

Shipped as outdoor terminations but can be used indoors

1/C 35kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT1CB35	1/0 - 4/0
AGT1CC35	250 - 1000

Shipped as outdoor terminations but can be used indoors

3/C 5kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT3CA5-HS*	#6 to #2
AGT3CB5-HS*	#1
AGT3CA5-X	1/0 - 250
AGT3CB5-X	350 - 750
AGT3CC5-X	1000

*Note: Heat shrink versions

Replace X with O (Outdoor) or I (Indoor)

3/C 15kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT3CA15	#2 - 2/0
AGT3CB15	4/0 - 500
AGT3CC15	750 - 1000

Replace X with O (Outdoor) or I (Indoor)

3/C 25kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT3CB25	#1 - 250
AGT3CC25	350 - 500
AGT3CD25	750 - 1000

Shipped as outdoor terminations but can be used indoors

3/C 35kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT3CB35	1/0 - 4/0
AGT3CC35	250 - 350
AGT3CD35	500 - 1000

Shipped as outdoor terminations but can be used indoors

SECTION TWO - TERMINATIONS

MV ARMORED AND TECK TERMINATIONS

Prysmian's armored cold shrink terminations can be used on Armored and TECK Cables. Cold shrink terminations are fully suited for industrial applications because heat is not required to shrink down the termination body.

Prysmian can provide one or two-hole lugs in the kit so that a complete kit is ready for the jobsite.

1/C 5kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT1CA5-HS*	#6 - #2
AT1CB5-HS*	#1
AT1CA5-X	1/0 - 250
AT1CB5-X	350 - 750
AT1CC5-X	1000

*Note: Heat shrink versions

Replace X with O (Outdoor) or I (Indoor)

1/C 15kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT1CA15-X	#2 - 2/0
AT1CB15-X	4/0 - 500
AT1CC15-X	750 - 1000

Replace X with O (Outdoor) or I (Indoor)

1/C 25kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT1CB25	#1 - 250
AT1CC25	350 - 1000

Shipped as outdoor terminations but can be used indoors

1/C 35kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT1CB35	1/0 - 4/0
AT1CC35	250 - 1000

Shipped as outdoor terminations but can be used indoors

3/C 5kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT3CA5-HS*	#6 - #2
AT3CB5-HS*	#1
AT3CA5-X	1/0 - 250
AT3CB5-X	350 - 750
AT3CC5-X	1000

*Note: Heat shrink versions

Replace X with O (Outdoor) or I (Indoor)

3/C 15kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT3CA15-X	#2 - 2/0
AT3CB15-X	4/0 - 500
AT3CC15-X	750 - 1000

Replace X with O (Outdoor) or I (Indoor)

3/C 25kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT3CB25	#1 - 250
AT3CC25	350 - 500
AT3CD25	750 - 1000

Shipped as outdoor terminations but can be used indoors

3/C 35kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AT3CB35	1/0 - 4/0
AT3CC35	250 - 350
AT3CD35	500 - 1000

Shipped as outdoor terminations but can be used indoors

SECTION TWO - TERMINATIONS

MV AIR BAG™ AND OTHER NON-ARMORED TERMINATIONS

Prysmian's AIR BAG™ terminations can be used on traditional non-armored 3/C and 1/C shielded cables. Cold shrink terminations are fully suited for industrial applications because heat is not required to shrink down the termination body.

Prysmian can provide one or two-hole lugs in the kit so that a complete kit is ready for the jobsite.

1/C 5kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT1CA5-HS*	#6 - #2
ABT1CB5-HS*	#1
ABT1CA5-X	1/0 - 250
ABT1CB5-X	350 - 750
ABT1CC5-X	750 - 1000

*Note: Heat shrink versions:

Replace X with O (Outdoor) or I (Indoor)

1/C 15kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT1CA15-X	#2 - 2/0
ABT1CB15-X	4/0 - 500
ABT1CC15-X	750 - 1000

Replace X with O (Outdoor) or I (Indoor)

1/C 25kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT1CB25	#1 - 250
ABT1CC25	350 - 1000

Shipped as outdoor terminations but can be used indoors

1/C 35kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT1CB35	1/0 - 4/0
ABT1CC35	250 - 1000

Shipped as outdoor terminations but can be used indoors

3/C 5kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT3CA5-HS*	#6 - #2
ABT3CB5-HS*	#1
ABT3CA5-X	1/0 - 250
ABT3CB5-X	350 - 750
ABT3CC5-X	750 - 1000

*Note: Heat shrink versions:

Replace X with O (Outdoor) or I (Indoor)

3/C 15kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT3CA15-X	#2 - 2/0
ABT3CB15-X	4/0 - 500
ABT3CC15-X	750 - 1000

Replace X with O (Outdoor) or I (Indoor)

3/C 25kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT3CB25	#1 - 250
ABT3CC25	350 - 500
ABT3CD25	750 - 1000

Shipped as outdoor terminations but can be used indoors

3/C 35kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT3CB35	1/0 - 4/0
ABT3CC35	250 - 350
ABT3CD35	500 - 1000

Shipped as outdoor terminations but can be used indoors

SECTION TWO - TERMINATIONS

LV AIRGUARD™ /AIR BAG™ AND OTHER 3/C LV TERMINATIONS

LV Termination kits include all of the necessary materials to terminate traditional 3/C LV non-shielded cables.

Rejacketing material is included in the kit to provide mechanical protection of the insulation as the cable exits the break out boot.

Prismian can provide one or two-hole lugs in the kit so that a complete kit is ready for the job site.

AIRGUARD™ 600V - 2.4kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
AGT3CALV-HS*	#2 - 2/0
AGT3CBLV	3/0 - 500
AGT3CCLV	750 - 1000

*Heat shrink version

AIR BAG™ 600V - 2.4kV Terminations (Indoor or Outdoor)

Part Number	Cable Size Range
ABT3CALV-HS*	#2 - 2/0
ABT3CBLV	3/0 - 500
ABT3CCLV	750 - 1000

*Heat shrink version

ALUMINUM AND COPPER COMPRESSION CONNECTORS

Prysmian can supply a complete kit that can also include connectors. Both aluminum and copper are available.

Non-standard sizes available upon request.

Aluminum Compression Connectors

Part Number	Fits Conductor
2 - AL	#2 AWG
1/0 - AL	1/0 AWG
2/0 - AL	2/0 AWG
3/0 - AL	3/0 AWG
4/0 - AL	4/0 AWG
250 - AL	250 MCM
350 - AL	350 MCM
500 - AL	500 MCM
750 - AL	750 MCM
1000 - AL	1000 MCM
1250 - AL	1250 MCM

Copper Compression Connectors

Part Number	Fits Conductor
2 - CU	#2 AWG
1/0 - CU	1/0 AWG
2/0 - CU	2/0 AWG
3/0 - CU	3/0 AWG
4/0 - CU	4/0 AWG
250 - CU	250 MCM
350 - CU	350 MCM
500 - CU	500 MCM
750 - CU	750 MCM
1000 - CU	1000 MCM
1250 - CU	1250 MCM

Aluminum Compression 2-Hole Lugs

Part Number	Fits Conductor
2 - AL2L	#2 AWG
1/0 - AL2L	1/0 AWG
2/0 - AL2L	2/0 AWG
3/0 - AL2L	3/0 AWG
4/0 - AL2L	4/0 AWG
250 - AL2L	250 MCM
350 - AL2L	350 MCM
500 - AL2L	500 MCM
750 - AL2L	750 MCM
1000 - AL2L	1000 MCM
1250 - AL2L	1250 MCM

Copper Compression 2-Hole Lugs

Part Number	Fits Conductor
2 - CU2L	#2 AWG
1/0 - CU2L	1/0 AWG
2/0 - CU2L	2/0 AWG
3/0 - CU2L	3/0 AWG
4/0 - CU2L	4/0 AWG
250 - CU2L	250 MCM
350 - CU2L	350 MCM
500 - CU2L	500 MCM
750 - CU2L	750 MCM
1000 - CU2L	1000 MCM
1250 - CU2L	1250 MCM

AL compression connector



AL two-hole lug



CU compression connector



CU two-hole lug



SHEARBOLT CONNECTORS

Prysmian Mechanical Shearbolt Connectors are designed to cover a wide range of conductor sizes from 6 AWG to 1250 kcmil, with only five connectors. Individual sizes cover ranges from 6 AWG-3/0; 2 AWG-250 kcmil; 1/0 AWG -500 kcmil; 350-750 kcmil; and 750-1250 kcmil. The unique stepless Shearbolt design has no predetermined breaking points in the connector thread. Bolts always break flush with the surface of the connector body.

The design provides excellent performance and features not found in other mechanical connectors. They meet ANSI C119.4 and withstand the 40% pull out force (ANSI Class 2) required by IEEE-404. No compression dies or mechanical crimp tooling are required for installation. Following cable preparation, simply slide the connector over the conductor and tighten the bolts until they shear off.

Prysmian Mechanical Shearbolt Connectors are dual-rated (AL/CU) and tin-plated to resist corrosion. Compatible with the full line of Prysmian Elasppeed™ cold-applied splice kits, they offer the best medium voltage cable splicing solution.

Ratings

- ANSI C119.4-2004
- ANSI Class 2 (40% RBS)
- Dual-Rated (AL/CU)

Electrical Property

- Current Cycle Test - Class A @ 284°F (140°C) Conductor
- Mechanical Pullout Test -Class 2



Product Selection Guide

Catalog Description	Part Number	Connector Range AWG / kcmil	Connector Length w/Centering Rings Inches (mm)	Connector O.D. Inches (mm)	Hex Key Size	Number of Bolts
6-3/0 ALSB	CUS53825	#6 to 3/0	2.95 (75)	.95 (24)	5 mm	2
2-250 ALSB	CUS53821	2-250	4.41(112)	1.10(28)	5 mm	4
1/0- 500 ALSB	CUS53783	1/0 to 500	5.12(130)	1.30(33)	6 mm	4
350-750 ALSB	CUS53826	350 to 750	6.93(176)	1.65(42)	8 mm	6
750 -1250 ALSB	CUS53828	750 to 1250	10.15(258)	2.10(53)	8 mm	8

Notes:

These connectors are designed to be used with Prysmian Elasppeed Splice Kits. For non-Prysmian splice kits, contact the splice manufacturer before installing the connector to determine proper sizing.

Installer should verify that both cables are within the Insulation O.D. Range of the splice kit before using any Prysmian connector.

The Prysmian Mechanical Shearbolt Connectors can be used on cables with an operating temperature of 221°F (105°C) and an emergency overload rating of 284°F (140°C). The connectors pass the requirements of ANSI C119.4-2004. The current rating of these connectors meets or exceeds the current rating of the conductor size for which it is intended.

GROUNDING BRAID KITS

Prysmian provides grounding kits that can be used on a variety of cable designs. Please call Prysmian to help identify the proper grounding kit for the intended cable. Grounding kits include all of the necessary components.

Standard grounding kits include a 24-inch tin-coated flat copper braid with a solder block, Mastic and a constant force spring are also included to complete the grounding assembly. Prysmian can also provide special grounding kits that would include longer braids as required. Please contact your local representative for assistance.

Standard Grounding Kits

Part Number	Description
GB224	#2 AWG copper braid, 24 inches long
GB424	#4 AWG copper braid, 24 inches long
GB624	#6 AWG copper braid, 24 inches long
GB824	#8 AWG copper braid, 24 inches long

Constant Force Springs Size Range

Part Number	Useful Size Range inches
CFS1	0.55 to 0.87
CFS2	0.73 to 1.14
CFS3	0.93 to 1.46
CFS4	1.22 to 1.97
CFS5	1.73 to 2.76
CFS6	2.28 to 3.70

Getting the right part number

The part number is completed by specifying the proper constant force spring and adding this to the end of the number sequence. For shield diameters where two or three sizes are available, select the spring closest to the middle of the range.

Example: For a grounding kit requiring a #4 AWG braid that will be used on a cable with a shield OD of 1.25", the finished product number is GB424-CFS3.

AIRGUARD™ Grounding Kits

Part Number	Description
AGJ-GB460	AIRGUARD Splice grounding kit

For AIRGUARD™ splices, the kit includes two mechanical connectors for grounding the AIRGUARD™ layer, four clamps and 60 inches of #4 AWG flat tin coated copper braid.

Please specify the size of cable when ordering so that the proper clamps can be provided.

Part Number	Description
AGT-GB460	AIRGUARD Termination grounding kit

For AIRGUARD™ terminations, the kit includes one mechanical connector for grounding the AIRGUARD™ layer, two clamps and 60 inches of #4 AWG flat tin coated copper braid.

Please specify the size of the cable when ordering so that the proper clamps can be provided.

LC SHIELD® CONNECTORS

Prysmian's patented LC Shield® Connectors are an industry standard for grounding cables with longitudinally corrugated copper tape shields. The corrugated copper element is sized accordingly and also utilizes the same corrugations per inch as the cable to maximize the surface area of the connection. Two constant force springs are applied around the connector to complete the assembly.

Prysmian also offers LC Shield® Connectors with a drain wire that can be attached to a separable connector (pre-molded elbow).

LC Shield® Connectors

Part Number	Description
52-80-104	#1 AWG copper wire welded to a tin-coated LC Shield® adaptor which can be trimmed to size.
52-80-120	#2 AWG copper wire welded to a tin-coated LC Shield® adaptor which can be trimmed to size. Also included is a #12 tin-coated copper drain wire for separable connectors.

Note: LC Shield® connectors should be trimmed to create a 1/4 inch gap when wrapped around the LC shield® of the cable to which it will be applied. This will allow for proper clearances for expansion and contraction of the cable through out its service life.

52-80-104



52-80-120



CABLE PREPARATION TOOLS

Prysmian is proud to offer some of the industry's finest cable preparation tools. The tools can be used to remove cable jackets on concentric neutral cable, flat strap neutrals, PILC cables and AIRGUARD™ cables.

Jacket Stripper

Part Number	Cable OD range inches (mm)
PG2-MV-2020	0.80 - 1.40 (20 - 36)
PG3-MV-1018	1.00 - 2.00 (25 - 51)
PG3-MV-2833	1.00 - 2.00 (25 - 51)
PG4-MV-2833	1.85 - 3.00 (47 - 76)
PG5-MV-3535	2.55 - 3.70 (65 - 94)
PG6-MV-3535	3.14 - 4.90 (80 - 124)

Note: The last number within the part number indicates the blade depth. The first two digits indicate the depth in millimeters of cut for the circumferential cut and the last two digits indicate the depth in millimeters of cut for the longitudinal cut.

Example: The PG4-MV-2833 contains four circumferential blades (MTC4 type) with a depth of 2.8 mm and one longitudinal blade (MTL4 type) with a depth of 3.3 mm.

Replacement Blades

Part Number	Quantity
MTC3 - 1.0	Four blades per tool
MTL3 - 1.8	One blade per tool
MTC3 - 2.8	Four blades per tool
MTL3 - 3.3	One blade per tool
MTC4 - 2.8	Four blades per tool
MTL4 - 3.3	One blade per tool
MTC5 - 3.5	Four blades per tool
MTL5 - 3.5	One blade per tool
MTC6 - 3.5	Four blades per tool
MTL6 - 3.5	One blade per tool

Other tools

Part Number	Description
EVP	Lead lifting tool
EV 150-240	Sheath Spreader
DSP	Semicon Lifting Tool
MF3-60	Jacket, Semicon and Insulation Removal Tool

PG Jacket Stripper



Lead lifting tool



SECTION FIVE - TOOLS AND ACCESSORIES

MISCELLANEOUS

The following accessories are available through Prysmian for convenient access to materials associated to terminating and splicing MV cable.

Constant Force Springs

Part Number	Description
CFS1	Constant Force Spring (see page 18 for proper size)
CFS2	Constant Force Spring (see page 18 for proper size)
CFS3	Constant Force Spring (see page 18 for proper size)
CFS4	Constant Force Spring (see page 18 for proper size)
CFS5	Constant Force Spring (see page 18 for proper size)
CFS6	Constant Force Spring (see page 18 for proper size)

Heat Shrink Tubing

Part Number	Description
53728	Heat Shrink Tube, 1 inch diameter
53729	Heat Shrink Tube, 1.5 inch diameter
53730	Heat Shrink Tube, 2 inch diameter

Jacket Repair Sleeves

Part Number	Description Size Range inches
CRS 052-60	0.25 to 1.80
CRS 076-60	0.95 to 2.55
CRS 100-60	1.30 to 3.40
CRS 139-60	1.65 to 4.70
CRS 185-60	2.50 to 6.25
CRS 210-60	2.50 to 7.10

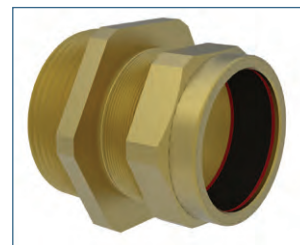
Repair Sleeve comes in 60-inch standard sizes.

Cable Glands for AIRGUARD™ or AIR BAG™

Prysmian has been making cable glands for decades.

We are proud to introduce our compression style cable gland for AIRGUARD™ Cable, AIR BAG™ Cable and traditional three conductor armored/non-armored cable.

In order to provide the proper cable gland, please provide the cable dimensions for the cable outside diameter. In the case of armored constructions, please provide the outside diameter of the metallic armor.



If Prysmian cable is being used, the Prysmian cable part number is acceptable.

MISCELLANEOUS

Multicleat™/Multistrap™ System

Prysmian's Multicleat/Multistrap system is used to secure trefoil groups of cables. A Multicleat consists of a Multistrap and a mounting base. A Multistrap is shown in the picture below (just the strap with no base).

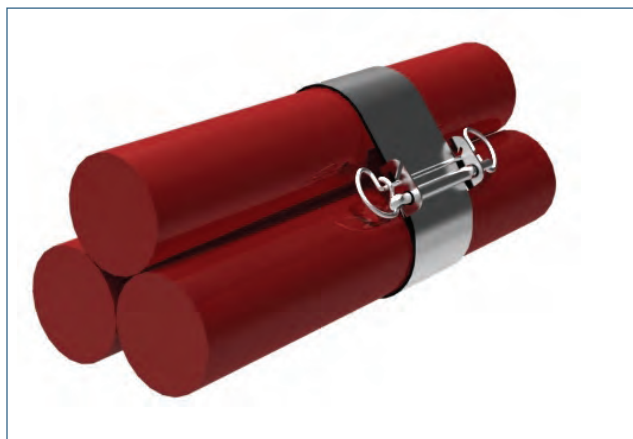
The cleats are made of non-magnetic aluminum alloy with an epoxy coating with two mounting holes. The strap component is 14 mil stainless steel. They are available in a variety of sizes.

Maximum spacing between cleats is 72 inches.

Short circuit currents are 43 kA RMS and 114 kA PEAK.

Cleat spacing at vertical change of direction should not exceed 12 inches.

Multistraps should be spaced evenly between Multicleats.



Multicleat for trefoil cables

Part Number	Holds Trefoil Cables in Diameters inches
378AD01	0.94 to 1.34
378AD02	1.18 to 1.61
378AD03	1.46 to 1.85
378AD04	1.69 to 2.13
378AD05	1.97 to 2.36
378AD06	2.20 to 2.64
378AD07	2.48 to 2.87
378AD08	2.72 to 3.15

Multistrap for trefoil cables

Part Number	Holds Trefoil Cables in Diameters inches
377AB01	0.94 to 1.34
377AB02	1.18 to 1.61
377AB03	1.46 to 1.85
377AB04	1.69 to 2.13
377AB05	1.97 to 2.36
377AB06	2.20 to 2.64
377AB07	2.48 to 2.87
377AB08	2.72 to 3.15

CABLE AND ACCESSORIES WARRANTY CLAUSE

The Seller warrants that for a period of one (1) year from the date of delivery (the "Warranty Period"), the Goods manufactured and provided by Seller provided hereunder shall comply in all material respects with the requirements and specifications of the Purchase Order and be free from defects due to faulty cable or accessory design, materials or workmanship. Notwithstanding the foregoing, the Seller shall not be held responsible for defects caused by lack of maintenance, unintended use, misuse, abuse, neglect, improper or unsuitable installation, external accidents, alterations or repairs made or performed by any person or entity not under the control of Seller, or any other causes beyond the reasonable control of the Seller.

Third party warranties will pass directly to the owner.

The foregoing warranties shall only be effective provided that the following conditions precedent have been met by Buyer:

(i) The Goods are used in accordance with conditions covered by the design specifications and operated within recognized and applicable industry specifications and standards.

(ii) The Goods are maintained and operated in accordance with Seller's recommended procedures, test protocols and with prudent industry practices.

During the Warranty Period, the Seller shall, at its sole option and within a reasonable period of time, repair or replace an, Goods which are reasonably rejected by the Buyer as failing to conform to the requirements and specifications of the Purchase Order the liability of the Seller shall in no case include the cost of removal, installation or reinstallation of any Good supplied by

the Seller, nor shall Seller's liability extend to the cost of labor to remove and install Goods to be repaired or replaced here under.

All the replacements by the Seller under the foregoing provisions shall be free of charge F.O.B. point called for in the Purchase Order. Goods for which replacement has been made under the foregoing provision shall become the property of the Seller and be returned to the Seller by the Buyer F.O.B. Delivery Point as giving in the Purchase Order.

Any claim for breach of Seller's warranties shall be deemed waived unless written notice of such claim is given to Seller within the warranty period, within thirty (30) days after the date on which the claimed defect is discovered.

THE WARRANTIES AND REMEDIES SET FORTH ABOVE CONSTITUTE THE SOLE WARRANTIES OF THE SELLER AND THE BUYER'S SOLE REMEDIES IN THE EVENT OF A BREACH OF SUCH WARRANTIES BY THE SELLER.

THE WARRANTIES SET FORTH ABOVE ARE IN LIEU OF, AND SELLER DISCLAIMS ANY AND ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY OR AT COMMON LAW, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SELLER SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES INCURRED BY BUYER OR ANYONE CLAIMING THROUGH BUYER.

CONTACT INFORMATION

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