

# TECHNICAL CATALOG OF PRODUCTS

Intelligent solutions for connections and accessories for electrical power distribution.



Condumax Incesa Group

# Our energy is trust.

The Condumax Incesa Group started its activities in 1964 and is currently recognized as one of the most serious and respected business groups in the energy sector in Brazil.

The Group serves technically demanding markets such as power utilities, clean energy generation companies, automotive, consumer and durable goods industries, agribusiness and large construction companies.

Incesa develops and manufactures intelligent solutions for energy connection and control, such as connectors, tools, spacers, terminals, distribution boxes and energy anti-theft systems.

Many of the products, now approved by major power utilities in Brazil and Latin America, were developed in Incesa laboratories.



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Scan and  
check out  
the awards

Desde  
**1964**



# Incesa Intelligent Solutions

Incesa's research and development area specializes in PROJECTING, PROTOTYPING AND TESTING new solutions for the energy market. If you have a project to reduce costs, optimize processes or solve energy connection and control problems, schedule a meeting with the Incesa R&D team.



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## Certifications



DQS Certified Management System  
For example ISO 9001

Visit our website and learn more about our history, company structure, quality policies, sustainability and corporate ethics.

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## CONNECTORS

# 4 TAPS ALUMINUM CONNECTOR

Ideal for multiple derivations in bare or isolated networks. It has a fuse nut to ensure the quality of the application.



**Features:** branch connections by clamping system and main side connections by system without the need to strip the cable. It has a wedgeshaped cover, dispensing the multiplexed cable opening tool for its installation, allowing bimetallic connections.

**Material:** connector made of polymeric material and contacts made of copper-plated and tin-plated aluminum, clamping components made of zamac.

**Application:** electrical connections involving aluminum and copper wires and cables in Aluminum - Aluminum and Aluminum - Copper combinations.

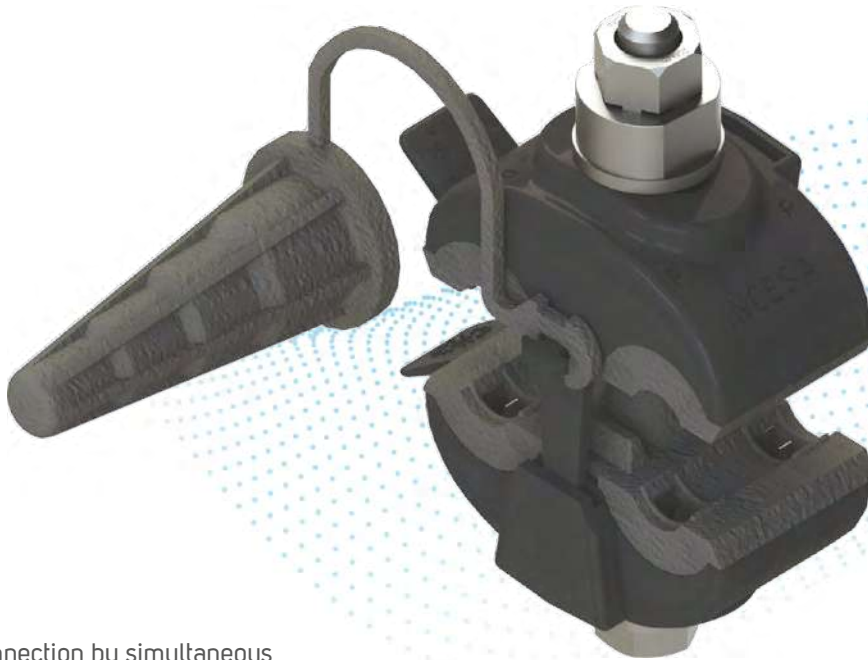
4 TAPS

REFERENCE	APPLICATION (mm <sup>2</sup> )	
	MAIN	TAP
4 TAPS	25 - 120	1,5 - 50

# CONNECTORS

## PIERCING CONNECTOR

Ideal for insulated connections involving wires and cables in combinations of Aluminum - Aluminum, Aluminum - Copper and Copper - Copper. It has a fuse nut to ensure the quality of the application.



**Features:** connection by simultaneous tightening with fusible nut, through perforation of the insulation, ensuring tightness.

**Material:** connector made of polymeric material and contacts made of tinned copper.

**Application:** electrical connections involving copper and aluminum wires and cables in combinations of Aluminum - Aluminum, Aluminum - Copper and Copper - Copper.

REFERENCE	CONDUCTORS (mm <sup>2</sup> )	
	MAIN	TAP
Perforating Small	10 - 70	1,5 - 10
Perforating Small	10 - 95	1,5 - 10
Perforating Small	35 - 120	1,5 - 10
Perforating Medium	16 - 120	4 - 35
Perforating Medium	16 - 150	4 - 35
Perforating Large	25 - 120	25 - 120
Perforating Large	35 - 150	35 - 150
Perforating Large	50 - 120	70 - 240
Perforating Large	70 - 240	16 - 120
Perforating Large	70 - 240	70 - 150
Perforating Large	70 - 240	70 - 240
Perforating Large Doble	16 - 120	16 - 120
Perforating Large Doble	70 - 240	70 - 240

Punch Connector with Current Limiter Models 1 to 7 Amps

MAIN	TAP
16 - 150	1,5 - 16



## CONNECTORS

# PIERCING CONNECTOR FOR EXTENSION

Used in insulated electrical connections in entrance branches, it is the only solution on the market that can be used on all types of conductor, classes 1, 2, 4 and 5, in any combination Aluminum-Aluminum, Aluminum-Copper and Copper-Copper. Easy application and removal.



**Characteristics:** connection by simultaneous clamping, through perforation of the insulation of the conductors.

**Material:** connector made of polymeric material and contacts made of tinned copper.

**Application:** electrical connections involving conductor, classes 1, 2, 4 and 5, in aluminum or copper, for connection of the consumer's extension to the utility network.

REFERENCE	CONDUCTORS (mm <sup>2</sup> )	
	MAIN	TAP
Perforating Branch Connector	6 - 35	6 - 35

## CONNECTORS

# 4 TAPS PIERCING CONNECTOR - CONEX 4S



**Characteristics:** toothed contact isolated from the metal parts and the body of the product. It has a reusable perforating system in the derivations with the function of cutreconnect that can be performed from the ground.

**Material:** high mechanical strength polymeric material. It has a high conductivity tinned copper toothed contact.

**Application:** for the application of 1.5 and 2.5 mm<sup>2</sup> conductors in the derivations, the ends should be bent approximately 4 cm, and the bent conductor should be inserted in the connector. Installed at low voltage, allowing the derivation of the connection branches.

REFERENCE	CONDUCTORS (mm <sup>2</sup> )	
	MAIN	TAP
CONEX 4S	25 mm <sup>2</sup> - 240 mm <sup>2</sup>	1,5 mm <sup>2</sup> - 35 mm <sup>2</sup>



## CONNECTORS

# 4 TAPS PIERCING CONNECTOR CONEP 4D NEW



**Features:** connector used for connecting homes, businesses, street lighting and consumers in general.

**Material:** made of high mechanical strength polymers, resistant to the weathering and UV rays. Internal busbars in aluminum alloy, copper plated and tin plated.

**Application:** installed at low voltage allowing the derivation of up to 4 connection branches. 1 Conep replaces: 5 Connectors Drilling + 50 cm, Cable + High Fusion Tape.

REFERENCE	CONDUCTORS (mm <sup>2</sup> )			
	MAIN	TAP	CURRENT NOMINAL	INSULATI ON LEVEL
CONEP 4D NEW	25 mm <sup>2</sup> - 150 mm <sup>2</sup>	1,5 mm <sup>2</sup> - 35 mm <sup>2</sup>	200 A	1,5 kV

## CONNECTORS

# WEDGE CONNECTOR FOR CONNECTION BRANCH (SYMMETRICAL) - CCRL

Used for electrical connections involving wires and cables in combinations Aluminum - Aluminum, Aluminum - Copper or Copper - Copper. Its installation is simple, using 12-inch water pump pliers. The spring effect connection prolongs the durability of the connection.



**Features:** spring effect connection (permanent tightening).

**Material:** body and wedge in tinned copper alloy.

**Application:** electrical connections involving wires and cables in Aluminum - Aluminum, Aluminum - Copper or Copper - Copper combinations.

TYPE	CCRL		SUM OF DIAMETERS (mm)		MAIN DIAMETER (mm)		SHUNT DIAMETER (mm)	
	COLOR		MIN	MÁX	MIN	MÁX	MIN	MÁX
I	●	GREY	11,19	14,01	3,17	8,12	3,17	7,42
II	●	GREEN	9,51	11,18	3,17	8,12	3,17	5,21
III	●	RED	7,68	9,50	2,54	6,55	1,27	4,65
IV	●	BLUE	6,21	7,67	2,54	6,55	1,27	4,65
V	●	YELLOW	4,70	6,20	2,54	4,93	1,27	4,65
VI	● ●	WHITE / BLUE	16,79	18,72	8,01	10,61	6,54	9,36
VII	● ●	WHITE / RED	14,02	16,78	4,66	10,11	4,66	8,3
VIII	● ●	GREEN / WHITE	18,73	20,22	8,01	10,11	4,66	10,11
MULTIPLE III-IV-V	● ● ●	YELLOW / RED / BLUE	4,70	9,50	2,54	6,55	1,27	4,65
II OPTIMIZED	●	GREEN	9,51	11,18	3,17	8,12	3,17	5,21

## CONNECTORS

# WEDGE CONNECTOR FOR CONNECTION BRANCH (ASYMMETRIC)

















Used for electrical connections involving wires and cables in combinations Aluminum - Aluminum, Aluminum - Copper or Copper - Copper. Its installation is simple, using 12-inch water pump pliers. The spring effect connection prolongs the durability of the connection.



**Features:** spring effect connection (permanent tightening).

**Material:** body and wedge in tinned copper alloy.

**Application:** electrical connections involving wires and cables in Aluminum - Aluminum, Aluminum - Copper or Copper - Copper combinations.

TYPE	CCRL		SUM OF DIAMETERS (mm)		MAIN DIAMETER (mm)		SHUNT DIAMETER (mm)	
	COLOR		MIN	MÁX	MIN	MÁX	MIN	MÁX
A		VIOLET	9,10	10,95	5,60	9,36	1,74	5,10
B		ORANGE	10,95	13,11	6,20	9,36	1,74	5,10
C		BROWN	13,11	14,75	8,20	12,74	1,74	5,10
D		WHITE	14,75	17,0	9,50	12,74	1,74	5,10
F	 	GREEN / BLUE	7,20	9,10	5,60	8,33	1,74	5,10
G	 	VIOLET / BLUE	7,20	9,10	5,60	8,33	1,36	1,73
H	 	ORANGE / BLUE	9,10	10,95	5,60	9,36	1,36	1,73
J	 	BROWN / BLUE	10,95	13,11	9,34	11,1	1,74	5,10
K	 	WHITE / BLUE	10,95	13,11	9,34	11,1	1,36	1,73
L	 	GREY / BLUE	16,43	19,45	12,3	14,6	2,25	5,10



## TABLE OF WEDGE CONNECTORS BRANCH OF CONNECTION

SELECTION TABLE (AWG x AWG)

		MAIN DRIVER																				
		SOLID					Cu/AL CA CABLE									ACSR CABLE						
		10	8	6	4	2	10	8	6	4	2	1/0	2/0	3/0	8	6	4	2	1/0	2/0	3/0	
ACSR CABLE	8			III	III	II/A				III	II/A	I/B	C	C	D	III	III	II/A	I/B	C	D	D/L
	6				II	I/B				II/A	I/B	VII/C	D	D	II	I/B	I/B	VII/D	D	L		
	4					I					I	VII				I	VII	VII				
	2											VI	VI				VII	VI				
	1/0												VIII									
Cu/AL CA CABLE	12	V	V	IV	IV	F	V	V	IV	III/F	A	B/J	J	C	IV	IV	F	A	J	C	D	
	10		IV	IV	III	A	IV	IV	IV	III/F	A	B/J	C	D	IV	III	A	B	J	C	D	
	8			III	III	II/A		IV	III	II/A	II/B	B/J	C	D	III	III	II/A	I/B	C	D	D/L	
	6				II	I/B				II/A	I/B	VII/C	D	D		II	I/B	I/B	VII/D	D	L	
	4					I				I	I	VII					I	I	VII			
	2										VII	VII	VI					VII	VII			
1/0											VI							VIII				
SOLID	14		V	V	IV	G		V	IV	IV/G	G	K	K		V	IV	G	H	K			
	12		V	V	IV	F		V	IV	III/F	A	B/J	J	C	V	IV	F	A	J	C	D	
	10	V	V	IV	III	F	V	IV	IV	III/F	A	B/J	J	C	IV	IV	F	A	J	C	D	
	8		IV	IV	III	II/A	V	IV	III	II/A	II/A	B/J	C	D	IV	III	II/A	II/B	C	C	D	
	6			III	III	II/A			III	II/A	I/B	C	C	D		III	II/A	I/B	C	D	D/L	
	4				II	I				II	I	VII					I	I	VII			
2					I					I	VII	VI					VII	VII				

SELECTION TABLE (AWG x mm<sup>2</sup>)

		MAIN DRIVER																				
		SOLID					Cu/AL CA CABLE									ACSR CABLE						
		10	8	6	4	2	8	6	4	2	1/0	2/0	3/0	8	6	4	2	1/0	2/0	3/0		
Cu/AL CA CABLE	1,5		V	V	IV	G	V	V	IV/G	G	H	K		V	IV	G	H	K				
	2,5		V	V	IV	F	V	IV	III/F	A	B/J	J	C	V	IV	F	A	J	C	C		
	4		V	IV	III	F	IV	IV	III/F	A	B/J	J	C	IV	IV	F	A	J	C	D		
	6		IV	IV	III	A	IV	III	III/F	A	B/J	C	D	IV	III	A	B	C	C	D		
	10			III	III	II/A		III	II/A	I/B	C	C	D		III	II/A	I/B	C	D	D/L		
	16				II	I			II	I	VII					I	I	VII				
	25					I				I	VII						VII	VII				
	35										VI	VI					VII	VI				
50										VI							VIII					
SOLID	1,5			V	IV	G	V	V	IV/G	G	H	K		V	IV	G	H	K				
	2,5		V	V	IV	F	V	IV	IV/F	A	B/J	J	C	V	IV	F	A	J		C		
	4	V	V	IV	IV	F	V	IV	III/F	A	B/J	J	C	V	IV	F	A	J	C	D		
	6		V	IV	III	A	IV	IV	III/F	A	B/J	C	C	IV	III	F	A	J	C	D		
	10			IV	III	II/A	IV	III	III/A	II/A	B/J	C	D	IV	III	II/A	I/B	C	C	D		
	16				II	II/B	III	II/A	I/B	C	D	D			III	II/A	I/B	C	D	L		
	25					I		I	I	VII						I	I	VII				
35								VII	VII	VI						VII	VI					

## TABLE OF WEDGE CONNECTORS BRANCH CONNECTION

SELECTION TABLE (AWG x AWG)



















		MAIN DRIVER															
		SOLID					CU/AL CA CABLE										
		6	10	16	25	35	50	4	6	10	16	25	35	50	70	95	
ACSR CABLE	8			III	II/A	II/A	I/B				III	III	II/A	I/B	B	C	D
	6				II/A	I/B	I/B					II	I/B	I/B	VII/C	D	
	4					I	VII					I	I	VII			
	2													VI	VI		
CU/AL CA CABLE	10		IV	IV	III/F	A	A/B		V	IV	III	A	A	B	C	D	
	8			III	III/A	II/A	I/B			III	III	II/A	I/B	B	C	D	
	6				II/A	I/B	I/B				II	II/B	I/B	C	D	D	
	4					I	I					I	I	VII			
SOLID	12	V	V	IV	III/F	F	A		V	V	IV	F	A	B	J	C	
	10	V	V	IV	III/F	A	A	V	V	IV	IV	F	A	B	J	D	
	8		IV	IV	III/F	II/A	I/B			IV	III	II/A	II/A	B	C	D	
	6			III	II/A	II/A	I/B				III	II/A	I/B	C	C	D	
	4				II	I	I					I	I	VII			
	2					I	VII						VII	VII	VI		
	1/0													VI	VI		

SELECTION TABLE (AWG x mm<sup>2</sup>)

		MAIN DRIVER														
		SOLID					CU/AL CA CABLE									
		6	10	16	25	35	50	4	6	10	16	25	35	50	70	95
CU/AL CA CABLE	1,5		V	V	IV	G	H			V	IV	IV/G	G	H	K	
	2,5	V	V	IV	IV/F	F	A		V	V	IV	IV/F	A	B	J	C
	4	V	V	IV	III/F	A	A	V	V	IV	IV	F	A	B	J	D
	6		IV	IV	III/F	A	B		IV	IV	III	A	A	B	C	D
	10			III	II/A	II/A	I/B			III	III	II/A	I/B	B	C	D
	16				II	I	I				II	I	I	VII	D	L
	25					I	VII					I	I	VII	VI	
	35						VII						VII	VII	VI	
SOLID	50												VI			
	1,5		V	V	IV	G	H			V	IV	G	G	H	K	
	2,5		V	V	IV/F	F	A		V	V	IV	F	A	A	J	C
	4	V	V	IV	III/F	F	A	V	V	IV	IV	F	A	B	J	C
	6	V	V	IV	III/F	A	A		V	IV	III	F	A	B	J	D
	10		IV	III	III/F	II/A	I/B			IV	III	II/A	II/B	B	C	D
	16			III	III/A	II/B	I/B				II	II/A	I/B	C	D	D
25				II/A	I	I					I	I	VII			
35				I	I	VII						VII	VII	VI		

## TABLE OF WEDGE CONNECTORS BRANCH CONNECTION

APPLICATION TABLE

TYPE	CCRL		SUM OF DIAMETERS (mm)		MAIN DIAMETER (mm)		SHUNT DIAMETER (mm)	
	COLOR		MIN	MÁX	MIN	MÁX	MIN	MÁX
I		GREY	11,19	14,01	3,17	8,12	3,17	7,42
II		GREEN	9,51	11,18	3,17	8,12	3,17	5,21
III		RED	7,68	9,50	2,54	6,55	1,27	4,65
IV		BLUE	6,21	7,67	2,54	6,55	1,27	4,65
I		YELLOW	4,70	6,20	2,54	4,93	1,27	4,65
II		WHITE / BLUE	16,79	18,72	8,01	10,61	6,54	9,36
I		WHITE / RED	14,02	16,78	4,66	10,11	4,66	8,3
II		GREEN / WHITE	18,73	20,22	8,01	10,11	4,66	10,11
A		VIOLET	9,10	10,95	5,60	9,36	1,74	4,65
B		ORANGE	10,95	13,10	6,20	9,36	1,74	5,10
C		BROWN	13,11	14,75	8,20	12,74	1,74	5,10
D		WHITE	14,75	17,00	9,50	12,74	1,74	5,10
F		GREEN / BLUE	7,20	9,10	5,60	8,33	1,74	5,10
G		VIOLET / BLUE	7,20	9,10	5,60	8,33	1,36	1,73
H		ORANGE / BLUE	9,10	10,95	5,60	9,36	1,36	1,73
J		BROWN / BLUE	10,95	13,11	9,34	11,10	1,74	5,10
K		WHITE / BLUE	10,95	13,11	9,34	11,1	1,36	1,73
L		GREY / BLUE	16,43	19,45	12,30	14,60	2,25	5,10



## CONNECTORS

# WEDGE CONNECTOR FOR BRANCH LINE WITH ALUMINUM STIRRUP

Used for electrical connections involving wires and cables in combinations Aluminum - Aluminum, Aluminum - Copper or Copper - Copper. Its installation is simple, using 12-inch water pump pliers. The spring effect connection prolongs the durability of the connection.



**Features:** spring effect connection (permanent tightening).

**Material:** body and wedge in tinned copper alloy. Stirrup made of tinned copper or aluminum.

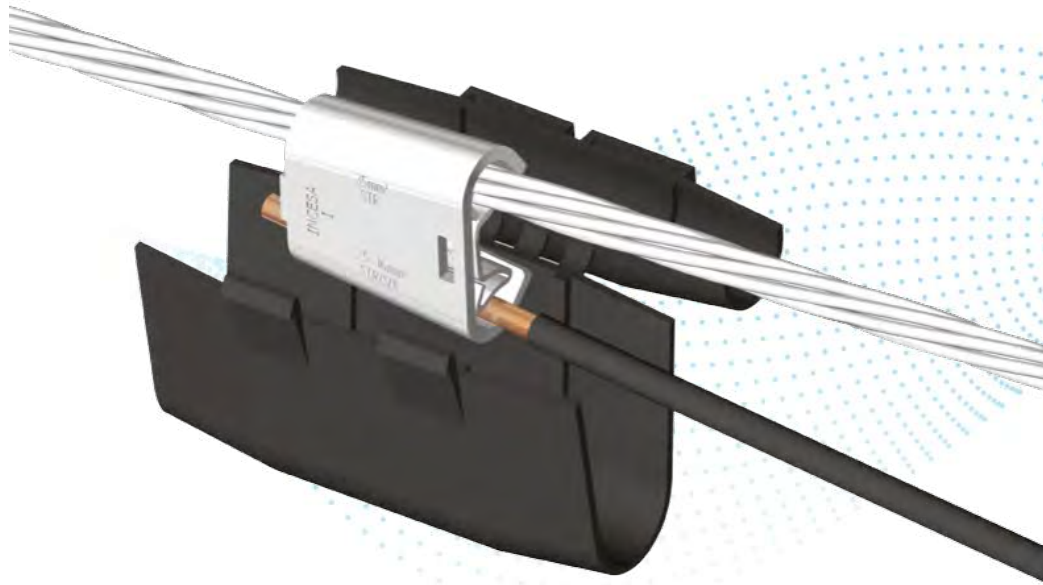
**Application:** electrical connections involving wires and cables in Aluminum - Aluminum, Aluminum - Copper or Copper - Copper combinations.

TYPE	CONDUCTORS (mm <sup>2</sup> )	Stirrup (AWG)
I	16 - 35	2
VII	35 - 50	

## PROTECTIVE COVER

# INSULATING COVER 0.6/1 KV

PROTECTIVE COVER for connections on branch wedge connectors (symmetrical and asymmetrical) Wedge Aluminum red and blue series.



**Features:** easy to apply, protects connections against weathering.

**Material:** black polymer, U.V. resistance.

**Application:** no tools required.

### REFERENCE

Type I - VII

Type II

Type III - IV - V

Type VI - VIII

Aluminum Wedge SVM.

Aluminum Wedge S-AZ.

## CONNECTORS

# ALUMINUM WEDGE CONNECTOR

Used for electrical connections involving aluminum and copper wires and cables, in combinations Aluminum - Aluminum and Aluminum - Copper. Installation is carried out using the application tool. The spring effect connection prolongs the durability of the connection.



**Features:** spring effect connection (permanent tightening).

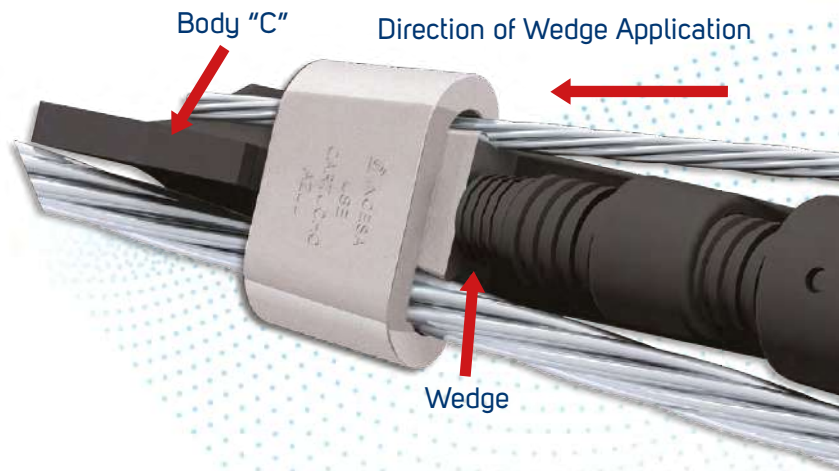
**Material:** aluminum body and wedge.

**Application:** electrical connections involving aluminum and copper wires and cables in Aluminum - Aluminum and Aluminum - Copper combinations.



# CONNECTORS

## ALUMINUM WEDGE CONNECTORS



INCESA Aluminum Wedge Connectors are formed by a body called "C" component and a wedge, both made of aluminum alloy or copper. Aluminum connectors are used to connect aluminum or aluminum alloy conductors, solid or multifilar, with or without steel core. They can also make bimetallic connections under normal environmental conditions (low corrosion).

Copper connectors are recommended for connecting Cu-Cu conductors in any environmental conditions. Wedge connectors, due to their shape and construction, do not have the shortcomings of screw connectors, which need to be periodically readjusted, nor of compression connectors, which present difficulties in their selection, in their application and when, once installed, they cannot be reused.

These considerations determine the fundamental characteristics of the Wedge Connector.

The contact force provided is constant, uniform and permanent, ensuring a corrosion-free connection and protected against temperature variations due to environmental or current effects.

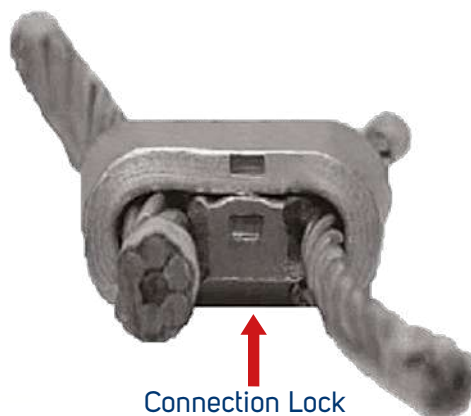
During the application, made with the INCESA Application Tool, the wedge is introduced between the two conductors positioned on component "C" at a speed of approximately 30 m/s, cleaning the contact surfaces until it hits the tool head. This impact forms a lock on the wedge which prevents it from coming loose after application. The suspended nickel particles of the anti-oxide paste, with the penetration speed of the wedge, scrape the oxide layer of the cable, ensuring a perfect electrical connection.

The installation of Aluminum Wedge Connectors is done in a fraction of the time required to install conventional connectors.

The connectors are removable and will not damage the conductors during installation or removal.

The "C" component and the Wedge already come with the anti-oxide paste, which contains abrasive particles that help to clean the surface of the conductors during the installation of the connector.

The Wedge contains indications of the conductor combinations. Connector labels and packaging are color-coded (red, blue, yellow and white) to facilitate identification of the appropriate cartridge and tool.



# CONNECTORS

## ALUMINUM WEDGE CONNECTOR

Application Guidance Table



REFERENCE	AWG CONDUCTORS		
	SIDE A	SIDE B	CARTRIDGES
CN-13	2	2	RED ●
CN-14	2	4	RED ●
CN-12	2	6	RED ●
CN-14	4	2	RED ●
CN-12	4	4	RED ●
CN-12	4	6	RED ●
CN-12	6	2	RED ●
CN-12	6	4	RED ●
CN-12	6	6	RED ●
CN-13	1/0	2	RED ●
CN-13	1/0	4	RED ●
CN-14	1/0	6	RED ●
CN-10	1/0	1/0	BLUE ●
CN-6	1/0	2/0	BLUE ●
CN-6	1/0	3/0	BLUE ●
CN-6	1/0	4/0	BLUE ●
CN-4	1/0	226,8	BLUE ●
CN-4	1/0	336,4	BLUE ●
CN-44	1/0	336,4	YELLOW ●
CN-10	2/0	2	BLUE ●
CN-10	2/0	4	BLUE ●
CN-11	2/0	6	BLUE ●
CN-6	2/0	1/0	BLUE ●
CN-6	2/0	2/0	BLUE ●
CN-6	2/0	3/0	BLUE ●
CN-15	2/0	4/0	BLUE ●
CN-3	2/0	336,4	BLUE ●
CN-6	3/0	2	BLUE ●
CN-10	3/0	4	BLUE ●
CN-11	3/0	6	BLUE ●
CN-6	3/0	1/0	BLUE ●
CN-6	3/0	2/0	BLUE ●
CN-15	3/0	3/0	BLUE ●
CN-15	3/0	4/0	BLUE ●
CN-3	3/0	336,4	BLUE ●

REFERENCE	AWG CONDUCTORS		
	SIDE A	SIDE B	CARTRIDGES
CN-6	4/0	2	BLUE ●
CN-10	4/0	4	BLUE ●
CN-10	4/0	6	BLUE ●
CN-6	4/0	1/0	BLUE ●
CN-15	4/0	2/0	BLUE ●
CN-15	4/0	3/0	BLUE ●
CN-15	4/0	4/0	BLUE ●
CN-3	4/0	226,8	BLUE ●
CN-3	4/0	336,4	BLUE ●
CN-4	266,8	1/0	BLUE ●
CN-3	266,8	4/0	BLUE ●
CN-2	266,8	266,8	BLUE ●
CN-2	266,8	336,4	BLUE ●
CN-45	266,8	336,4	YELLOW ●
CN-4	336,4	2	BLUE ●
CN-44	336,4	2	YELLOW ●
CN-4	336,4	4	BLUE ●
CN-44	336,4	4	YELLOW ●
CN-5	336,4	6	BLUE ●
CN-44	336,4	6	YELLOW ●
CN-4	336,4	1/0	BLUE ●
CN-44	336,4	1/0	YELLOW ●
CN-3	336,4	2/0	BLUE ●
CN-42	336,4	2/0	YELLOW ●
CN-3	336,4	3/0	BLUE ●
CN-42	336,4	3/0	YELLOW ●
CN-3	336,4	4/0	BLUE ●
CN-42	336,4	4/0	YELLOW ●
CN-2	336,4	226,8 CAA	BLUE ●
CN-45	336,4	226,8	YELLOW ●
CN-2	336,4	336,4	BLUE ●
CN-45	336,4	336,4	YELLOW ●
CN-48	397	336,4-397,5	BLUE ●

# ALUMINUM WEDGE CONNECTOR - OPTIMIZED LINE

Application Guidance Table

REFERENCE	AWG / mm <sup>2</sup> COMBINATIONS		SUM OF DIAMETERS (mm)		MAIN DRIVER (mm)		SHUNT CONDUCTOR (mm)		APPLICATION CARTRIDGES		EXTRACTION CARTRIDGES	
	MAIN	TAP	MÁX	MIN	MÁX	MIN	MÁX	MIN				
CN-12	16 mm <sup>2</sup> Cu	wire 4 BWG	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	6 AWG Cu	wire 4 BWG	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	6 AWG CAA	6 AWG CA / CAA	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	35 mm <sup>2</sup> CA / CAL	6 AWG Cu wire	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	2 AWG CA	4 AWG Cu wire	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	2 AWG CA / Cu	4 BWG wire	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	2 AWG CA / CAA	6 AWG Cu wire	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	2 AWG CA / CAA	6 AWG CA / CAA	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	4 AWG CA / CAA	2 AWG Cu wire	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	4 AWG CA / CAA	6 AWG Cu wire	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	4 AWG CA / CAA	4 AWG Cu wire	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
	4 AWG CA / CAA	6 AWG CA / CAA	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●
4 AWG CA / CAA	4 AWG CA / CAA	13,46	10,41	8,38	5,18	6,55	4,11	RED	●	RED	●	
CN-13	35 mm <sup>2</sup> CAL	wire 4 BWG	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	35 mm <sup>2</sup> CA	2 AWG CA	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	35 mm <sup>2</sup> CAL	35 mm <sup>2</sup> CAL	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	50 mm <sup>2</sup> CA	2 AWG CA / Cu	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	50 mm <sup>2</sup> CA	35 mm <sup>2</sup> CA	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	50 mm <sup>2</sup> CA	50 mm <sup>2</sup> CA	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	2 AWG CA / CAA	2 AWG CA / CAA	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	2 AWG CA / CAA	2 AWG Cu Stirrup	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	2 AWG CA / CAA	4 AWG CA / CAA	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	2 AWG CA / CAA	wire 4 BWG	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	1/0 AWG CA / CAA	2 AWG wire	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	1/0 AWG CA / CAA	4 AWG Cu wire	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	1/0 AWG CA / CAA	4 AWG CA / CAA	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
	1/0 AWG CA / CAA	wire 4 BWG	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●
1/0 AWG CA / CAA	1/0 AWG CA / CAA	16,66	13,08	10,11	6,55	8,38	5,18	RED	●	RED	●	
CN-14	50 mm <sup>2</sup> CA / CAL	6 AWG Cu wire	15,29	11,79	10,11	6,55	6,55	4,11	RED	●	RED	●
	1/0 AWG CA / CAA	6 AWG Cu wire	15,29	11,79	10,11	6,55	6,55	4,11	RED	●	RED	●
	1/0 AWG CA / CAA	6 AWG CA / CAA	15,29	11,79	10,11	6,55	6,55	4,11	RED	●	RED	●
	2 AWG CA / CAA	6 AWG Cu wire	15,29	11,79	10,11	6,55	6,55	4,11	RED	●	RED	●
	2 AWG CA / CAA	4 AWG CA / CAA	15,29	11,79	10,11	6,55	6,55	4,11	RED	●	RED	●
	2 AWG CA / Cu	4 AWG CA / CAA	15,29	11,79	10,11	6,55	6,55	4,11	RED	●	RED	●
	2 AWG CA / Cu	4 AWG CA / CAA	15,29	11,79	10,11	6,55	6,55	4,11	RED	●	RED	●

# ALUMINUM WEDGE CONNECTOR - OPTIMIZED LINE

Application Guidance Table

REFERENCE	AWG / mm <sup>2</sup> COMBINATIONS		SUM OF DIAMETERS (mm)		MAIN DRIVER (mm)		SHUNT CONDUCTOR (mm)		APPLICATION CARTRIDGES	EXTRACTION CARTRIDGES
	MAIN	TAP	MÁX	MIN	MÁX	MIN	MÁX	MIN		
CN-10	1/0 AWG CA	35 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	2/0 AWG CA	35 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	3/0 AWG CA	35 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	4/0 AWG CA	35 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	70 mm <sup>2</sup> CA / CAL	35 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	1/0 AWG CA	50 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	50 mm <sup>2</sup> CA / CAL	50 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	95 mm <sup>2</sup> Cu	50 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	2/0 AWG CA	50 mm <sup>2</sup> CA / CAL	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	70 mm <sup>2</sup> CA / CAL	2 AWG CA / Cu / CAA Stirrup	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	70 mm <sup>2</sup> CA / CAL	1/0 AWG CA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	70 mm <sup>2</sup> CA / CAL	70 mm <sup>2</sup> CA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	2 AWG CA / Cu	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	Wire 6 AWG Cu	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	1/0AWG CA / CAA	2 AWG CA / Cu / CAA Stirrup	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	1/0AWG CA / CAA	1/0 AWG CA / CAA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	2/0 AWG CA / CAA	2 AWG CA / Cu / CAA Stirrup	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	2/0 AWG CA / CAA	4 AWG CA / CAA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	2/0 AWG CA / CAA	1/0 AWG CA / CAA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	2/0 AWG CA / Cu	2/0 AWG CA / Cu	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	3/0 AWG CA / CAA	2 AWG CA / Cu / CAA Stirrup	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	3/0 AWG CA / CAA	6 AWG CA / CAA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	3/0 AWG CA / CAA	4 AWG CA / CAA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
	4/0 AWG CA / CAA	Wire 2 AWG Stirrup	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●
4/0 AWG CA / CAA	Wire 6 AWG Cu	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●	
4/0 AWG CA / CAA	6 AWG CA / CAA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●	
4/0 AWG CA / CAA	4 AWG CA / CAA	22,32	15,9	14,53	8,23	11,79	4,11	BLUE ●	RED ●	
CN-11	50 mm <sup>2</sup> CA / CAL	35 mm <sup>2</sup> CA / CAL	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	50 mm <sup>2</sup> CA / CAL	2 AWG CA / Cu Stirrup	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	70 mm <sup>2</sup> CA / CAL	25 mm <sup>2</sup> CAL	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	70 mm <sup>2</sup> CA / CAL	Wire 6 AWG Cu	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	1/0 AWG CA	Wire 2 AWG Stirrup	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	2/0 AWG CA	Wire 6 AWG Cu	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	2/0 AWG CA	4 AWG CA	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	2/0 AWG CA	16 mm <sup>2</sup> CA / CAL	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	2/0 AWG CA	25 mm <sup>2</sup> CA / CAL	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●
	3/0 AWG CA	Wire 6 AWG Cu	17,18	13,36	14,53	8,23	7,6	4,11	BLUE ●	RED ●



# CONNECTORS

## ALUMINUM WEDGE CONNECTOR - OPTIMIZED LINE

Application Guidance Table

REFERENCE	AWG / mm <sup>2</sup> COMBINATIONS		SUM OF DIAMETERS (mm)		MAIN DRIVER (mm)		SHUNT CONDUCTOR (mm)		APPLICATION CARTRIDGES	EXTRACTION CARTRIDGES
	MAIN	TAP	MÁX	MIN	MÁX	MIN	MÁX	MIN		
CN-6	2/0 AWG CA	70 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	3/0 AWG CA	70 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	4/0 AWG CA	70 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	70 mm <sup>2</sup> CAL	70 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	95 mm <sup>2</sup> Cu	70 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	70 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	50 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	1/0 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	2/0 AWG CA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	3/0 AWG CA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	2/0 AWG CA / CAA	1/0 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	3/0 AWG CA / CAA	1/0 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	4/0 AWG CA / CAA	1/0 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	2/0 AWG CA / CAA / Cu	95 mm <sup>2</sup> Cu	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	2/0 AWG CA / CAA / Cu	2/0 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	3/0 AWG CA / CAA	2/0 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	3/0 AWG CA / CAA	3/0 AWG CA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	3/0 AWG CA / CAA	2 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
	4/0 AWG CA / CAA	2 AWG CA / Cu / CAA Stirrup	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●
4/0 AWG CA / CAA	1/0 AWG CA / CAA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●	
4/0 AWG CA	2/0 AWG CA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●	
4/0 AWG CA	3/0 AWG CA	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●	
4/0 AWG CA	50 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●	
4/0 AWG CA	70 mm <sup>2</sup> CA / CAL	25,66	20,67	14,53	9,25	14,53	6,55	BLUE ●	RED ●	
CN-15	3/0 AWG CA / CAA	3/0 AWG CA / CAA	28,7	24,86	14,53	9,25	14,53	9,25	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	3/0 AWG CA / CAA	28,7	24,86	14,53	9,25	14,53	9,25	BLUE ●	RED ●
	120 mm <sup>2</sup> CA	4/0 AWG CA	28,7	24,86	14,53	9,25	14,53	9,25	BLUE ●	RED ●
	4/0 AWG CA / CAA	2/0 AWG CA / CAA	28,7	24,86	14,53	9,25	14,53	9,25	BLUE ●	RED ●
	4/0 AWG CA / CAA	3/0 AWG CA / CAA	28,7	24,86	14,53	9,25	14,53	9,25	BLUE ●	RED ●
	4/0 AWG CA / CAA	4/0 AWG CA / CAA	28,7	24,86	14,53	9,25	14,53	9,25	BLUE ●	RED ●
	4/0 AWG CA / CAA	95 mm <sup>2</sup> Cu	28,7	24,86	14,53	9,25	14,53	9,25	BLUE ●	RED ●
CN-1	185 mm <sup>2</sup> CA / Cu	150 mm <sup>2</sup> CA / Cu	37	32,5	18,5	16,3	18,5	15	BLUE ●	RED ●
	185 mm <sup>2</sup> CA / Cu	185 mm <sup>2</sup> CA / Cu	37	32,5	18,5	16,3	18,5	15	BLUE ●	RED ●
	336,4 MCM CAA	336,4 MCM CA / CAA	37	32,5	18,5	16,3	18,5	15	BLUE ●	RED ●
	336,4 MCM CAA	185 mm <sup>2</sup> CA / Cu	37	32,5	18,5	16,3	18,5	15	BLUE ●	RED ●
	336,4 MCM CAA	150 mm <sup>2</sup> CA / Cu	37	32,5	18,5	16,3	18,5	15	BLUE ●	RED ●
	336,4 MCM CAA	266,8 AWG CA / CAA	37	32,5	18,5	16,3	18,5	15	BLUE ●	RED ●

# CONNECTORS

## ALUMINUM WEDGE CONNECTOR - OPTIMIZED LINE

Application Guidance Table

REFERENCE	AWG / mm <sup>2</sup> COMBINATIONS		SUM OF DIAMETERS (mm)		MAIN DRIVER (mm)		SHUNT CONDUCTOR (mm)		APPLICATION CARTRIDGES	EXTRACTION CARTRIDGES
	MAIN	TAP	MÁX	MIN	MÁX	MIN	MÁX	MIN		
CN-2	150 mm <sup>2</sup> CA	150 mm <sup>2</sup> CA / Cu	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	120 mm <sup>2</sup> CA / Cu	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	185 mm <sup>2</sup> CA	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
	336,4 MCM CA	336,4 MCM CA	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
	336,4 MCM CA	185 mm <sup>2</sup> CA	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
	336,4 MCM CA	4/0 AWG CAA	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
	336,4 MCM CA	266,8 AWG CA / CAA	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
	266,8 AWG CA / CAA	266,8 AWG CA / CAA	34,75	31,21	17,37	15,24	17,37	11,68	BLUE ●	RED ●
CN-3	150 mm <sup>2</sup> CA	120 mm <sup>2</sup> CA / Cu	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	150 mm <sup>2</sup> CA	150 mm <sup>2</sup> CA / Cu	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	70 mm <sup>2</sup> CA / Cu	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	4/0 AWG CA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	120 mm <sup>2</sup> CA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	336,4 MCM CA	2/0 AWG CA / CAA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	336,4 MCM CA	3/0 AWG CA / CAA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	336,4 MCM CA	4/0 AWG CA / CAA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	336,4 MCM CA	70 mm <sup>2</sup> CAL	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	336,4 MCM CA	120 mm <sup>2</sup> CA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
	266,8 AWG CA / CAA	3/0 AWG CA / CAA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●
266,8 AWG CA / CAA	4/0 AWG CA / CAA	31,22	27,02	17,37	15,24	15,24	8,23	BLUE ●	RED ●	
CN-4	185 mm <sup>2</sup> CA	2 AWG CA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	1/0 AWG CA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	2/0 AWG CA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	50 mm <sup>2</sup> CA / CAL	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	70 mm <sup>2</sup> CA / CAL	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	336,4 MCM CA	Wire 2 AWG Stirrup	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	336,4 MCM CA	4 AWG CA / CAA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	336,4 MCM CA	2 AWG CA / CAA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	336,4 MCM CA	1/0 AWG CA / CAA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	336,4 MCM CA	50 mm <sup>2</sup> CA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	336,4 MCM CA	70 mm <sup>2</sup> CA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	266,8 AWG CA / CAA	2 AWG CA / CAA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	266,8 AWG CA / CAA	1/0 AWG CA / CAA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●
	266,8 AWG CA / CAA	2/0 AWG CA / CAA	27,01	22,77	17,37	15,25	14,27	6,55	BLUE ●	RED ●

# CONNECTORS

## ALUMINUM WEDGE CONNECTOR - OPTIMIZED LINE

Application Guidance Table

REFERENCE	AWG / mm <sup>2</sup> COMBINATIONS		SUM OF DIAMETERS (mm)		MAIN DRIVER (mm)		SHUNT CONDUCTOR (mm)		APPLICATION CARTRIDGES	EXTRACTION CARTRIDGES
	MAIN	TAP	MÁX	MIN	MÁX	MIN	MÁX	MIN		
CN-5	150 mm <sup>2</sup> CA / Cu	16 mm <sup>2</sup> CA / Cu	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	150 mm <sup>2</sup> CA / Cu	25 mm <sup>2</sup> CA / Cu	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	16 mm <sup>2</sup> CA / Cu	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	185 mm <sup>2</sup> CA	Wire 2 AWG Stirrup	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	336,4 MCM CA	Wire 6 AWG Cu	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	336,4 MCM CA	4 AWG CA	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	336,4 MCM CA	6 AWG CA / CAA	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	266,8 AWG CA / CAA	6 AWG CA / CAA	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
	266,8 AWG CA / CAA	4 AWG CA / CAA	22,76	18,75	17,37	15,24	12,7	4,11	BLUE ●	RED ●
CN-16	150 mm <sup>2</sup> CA / Cu	150 mm <sup>2</sup> CA / Cu	32,6	30,1	18,3	16,9	14,31	11,8	BLUE ●	RED ●
	185 mm <sup>2</sup> CA / Cu	120 mm <sup>2</sup> CA / Cu	32,6	30,1	18,3	16,9	14,31	11,8	BLUE ●	RED ●
	336,4 MCM CAA	120 mm <sup>2</sup> CA / Cu	32,6	30,1	18,3	16,9	14,31	11,8	BLUE ●	RED ●
	336,4 MCM CAA	95 mm <sup>2</sup> CA / Cu	32,6	30,1	18,3	16,9	14,31	11,8	BLUE ●	RED ●
	336,4 MCM CAA	3/0 AWG CA / CAA	32,6	30,1	18,3	16,9	14,31	11,8	BLUE ●	RED ●
	336,4 MCM CAA	4/0 AWG CA / CAA / Cu	32,6	30,1	18,3	16,9	14,31	11,8	BLUE ●	RED ●
CN-17	150 mm <sup>2</sup> CA / Cu	95 mm <sup>2</sup> CA / Cu	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	185 mm <sup>2</sup> CA / Cu	50 mm <sup>2</sup> CA / Cu	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	185 mm <sup>2</sup> CA / Cu	70 mm <sup>2</sup> CA / Cu	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	336,4 MCM CAA	2 AWG CA / CAA / Cu	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	336,4 MCM CAA	1/0 AWG CA / CAA / Cu	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	336,4 MCM CAA	2/0 AWG CA / CAA / Cu	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	336,4 MCM CAA	35 mm <sup>2</sup> CA / CAL	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	336,4 MCM CAA	50 mm <sup>2</sup> CA / CAL	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
	336,4 MCM CAA	70 mm <sup>2</sup> CA / CAL	29,64	25,71	18,3	16,9	11,35	7,42	BLUE ●	RED ●
CN-18	185 mm <sup>2</sup> CA / Cu	16 mm <sup>2</sup> CA / Cu	24,64	22,95	18,3	16,9	6,35	4,66	BLUE ●	RED ●
	185 mm <sup>2</sup> CA / Cu	25 mm <sup>2</sup> CA / Cu	24,64	22,95	18,3	16,9	6,35	4,66	BLUE ●	RED ●
	336,4 MCM CAA	6 AWG CA / CAA / Cu	24,64	22,95	18,3	16,9	6,35	4,66	BLUE ●	RED ●
	336,4 MCM CAA	4 AWG CA / CAA / Cu	24,64	22,95	18,3	16,9	6,35	4,66	BLUE ●	RED ●
	336,4 MCM CAA	Wire 2 AWG CA / Cu	24,64	22,95	18,3	16,9	6,35	4,66	BLUE ●	RED ●
	336,4 MCM CAA	16 mm <sup>2</sup> CA / Cu	24,64	22,95	18,3	16,9	6,35	4,66	BLUE ●	RED ●
	336,4 MCM CAA	25 mm <sup>2</sup> CA / Cu	24,64	22,95	18,3	16,9	6,35	4,66	BLUE ●	RED ●

## ALUMINUM WEDGE CONNECTOR - OPTIMIZED LINE

Application Guidance Table

REFERENCE	AWG / mm <sup>2</sup> COMBINATIONS		SUM OF DIAMETERS (mm)		MAIN DRIVER (mm)		SHUNT CONDUCTOR (mm)		APPLICATION CARTRIDGES	EXTRACTION CARTRIDGES
	MAIN	TAP	MÁX	MIN	MÁX	MIN	MÁX	MIN		
CN-7	397,5 MCM CA	1/0 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	397,5 MCM CA	2/0 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	397,5 MCM CAA	2 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	397,5 MCM CAA	2/0 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	477 MCM CA / CAA	4 AWG CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	477 MCM CA / CAA	2 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	477 MCM CA / CAA	Wire 2 AWG Stirrup	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	477 MCM CA / CAA	1/0 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	477 MCM CA	2/0 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	477 MCM CA	70 mm <sup>2</sup> CA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	556,5 MCM CA / CAA	4 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
	556,5 MCM CA / CAA	2/0 AWG CA / CAA	32,53	28,27	23,88	16,92	11,35	5,88	YELLOW ●	BLUE ●
CN-8	397,5 MCM CA	4/0 AWG CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	397,5 MCM CA	336,4 MCM CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	397,5 MCM CA	397,5 MCM CA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	397,5 MCM CAA	3/0 AWG CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	397,5 MCM CAA	336,4 MCM CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	477 MCM CA / CAA	3/0 AWG CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	477 MCM CA / CAA	4/0 AWG CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	477 MCM CA	266,8 AWG CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	477 MCM CA	336,4 MCM CA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	556,5 MCM CA / CAA	1/0 AWG CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
	556,5 MCM CA / CAA	4/0 AWG CA / CAA	38,03	31,98	23,88	16,92	19,05	10,51	YELLOW ●	BLUE ●
CN-9	397,5 MCM CA / CAA	397,5 MCM CA / CAA	45	38,56	24,21	16,92	23,88	16,9	YELLOW ●	BLUE ●
	477 MCM CA / CAA	336,4 MCM CA / CAA	45	38,56	24,21	16,92	23,88	16,9	YELLOW ●	BLUE ●
	477 MCM CA / CAA	397,5 MCM CA / CAA	45	38,56	24,21	16,92	23,88	16,9	YELLOW ●	BLUE ●
	477 MCM CA / CAA	477 MCM CA / CAA	45	38,56	24,21	16,92	23,88	16,9	YELLOW ●	BLUE ●
	556,5 MCM CA / CAA	4/0 AWG CA / CAA	45	38,56	24,21	16,92	23,88	16,9	YELLOW ●	BLUE ●
	556,5 MCM CA / CAA	477 MCM CA / CAA	45	38,56	24,21	16,92	23,88	16,9	YELLOW ●	BLUE ●



# ALUMINUM WEDGE CONNECTOR - OPTIMIZED LINE

Application Guidance Table

REFERENCE	AWG / mm <sup>2</sup> COMBINATIONS		SUM OF DIAMETERS (mm)		MAIN DRIVER (mm)		SHUNT CONDUCTOR (mm)		APPLICATION CARTRIDGES	EXTRACTION CARTRIDGES
	MAIN	TAP	MÁX	MIN	MÁX	MIN	MÁX	MIN		
CN-42	336,4 AWG CA	2/0 AWG - CA / CAA	33,21	27	20,47	13,31	16,9	10,5	YELLOW ●	BLUE ●
	336,4 AWG CA	3/0 AWG - CA / CAA	33,21	27	20,47	13,31	16,9	10,5	YELLOW ●	BLUE ●
	336,4 AWG CA	4/0 AWG - CA / CAA	33,21	27	20,47	13,31	16,9	10,5	YELLOW ●	BLUE ●
	336,4 AWG CAA 397,5 MCM CAA	4/0 AWG - CA/Cu Stirrup	33,21	27	20,47	13,31	16,9	10,5	YELLOW ●	BLUE ●
	336,4 AWG CAA 397,5 MCM CAA	1/0 AWG - CA / CAA	33,21	27	20,47	13,31	16,9	10,5	YELLOW ●	BLUE ●
	336,4 AWG CAA 397,5 MCM CAA	2/0 AWG - CA / CAA	33,21	27	20,47	13,31	16,9	10,5	YELLOW ●	BLUE ●
	336,4 AWG CAA 397,5 MCM CAA	3/0 AWG - CA / CAA	33,21	27	20,47	13,31	16,9	10,5	YELLOW ●	BLUE ●
CN-44	336,4 AWG CA	6 AWG - CA / CAA	28,83	21,84	20,47	13,31	9,02	5,04	YELLOW ●	BLUE ●
	336,4 AWG CA	4 AWG - CA / CAA	28,83	21,84	20,47	13,31	9,02	5,04	YELLOW ●	BLUE ●
	336,4 AWG CA	2 AWG - CA / CAA	28,83	21,84	20,47	13,31	9,02	5,04	YELLOW ●	BLUE ●
	336,4 AWG CAA	1/0 AWG - CA/Cu Stirrup	28,83	21,84	20,47	13,31	9,02	5,04	YELLOW ●	BLUE ●
	397,5 MCM CAA	6 AWG - CA / CAA	28,83	21,84	20,47	13,31	9,02	5,04	YELLOW ●	BLUE ●
	397,5 MCM CAA	4 AWG - CA / CAA	28,83	21,84	20,47	13,31	9,02	5,04	YELLOW ●	BLUE ●
	397,5 MCM CAA	2 AWG - CA / CAA	28,83	21,84	20,47	13,31	9,02	5,04	YELLOW ●	BLUE ●
CN-45	336,4 AWG CA	266,8 AWG - CA / CAA	36,77	31,78	20,47	16,9	18,83	13,26	YELLOW ●	BLUE ●
	336,4 AWG CA	336,4 AWG - CA / CAA	36,77	31,78	20,47	16,9	18,83	13,26	YELLOW ●	BLUE ●
	397,5 MCM CAA	4/0 AWG - CA / CAA	36,77	31,78	20,47	16,9	18,83	13,26	YELLOW ●	BLUE ●
	397,5 MCM CAA	266,8 AWG - CA / CAA	36,77	31,78	20,47	16,9	18,83	13,26	YELLOW ●	BLUE ●
CN-48	397,5 MCM CA / CAA	336,4 AWG - CA / CAA	40,94	36,23	20,47	18,87	18,87	16,9	YELLOW ●	BLUE ●
	397,5 MCM CA / CAA	397,5 AWG - CA / CAA	40,94	36,23	20,47	18,87	18,87	16,9	YELLOW ●	BLUE ●
CN 50	795 MCM CA/CAA	477 MCM CA/CAA	51,69	48,03	29,36	21,79	29,36	21,79	YELLOW ●	BLUE ●
	636 MCM CAA	636 MCM CAA	51,69	48,03	29,36	21,79	29,36	21,79	YELLOW ●	BLUE ●
	795 MCM CAA	397,5 MCM CA/CAA	51,69	48,03	29,36	21,79	29,36	21,79	YELLOW ●	BLUE ●
	795 MCM CA	500 MCM CA/CAA	51,69	48,03	29,36	21,79	29,36	21,79	YELLOW ●	BLUE ●
	795 MCM CA	556,5 MCM CA/CAA	51,69	48,03	29,36	21,79	29,36	21,79	YELLOW ●	BLUE ●
	795 MCM CA	636 MCM CA	51,69	48,03	29,36	21,79	29,36	21,79	YELLOW ●	BLUE ●
	636 MCM CAA	556,5 MCM CAA	51,69	48,03	29,36	21,79	29,36	21,79	YELLOW ●	BLUE ●
CN 49	795 MCM CA/CAA	336,4 MCM CA/CAA	46,46	42,80	29,36	21,79	19,05	13,34	YELLOW ●	BLUE ●
	636 MCM CA/CAA	397,5 MCM CA/CAA	46,46	42,80	29,36	21,79	19,05	13,34	YELLOW ●	BLUE ●
CN 51	795 MCM CAA	795 MCM CAA	57,90	52,08	28,95	26,04	28,95	26,04	YELLOW ●	BLUE ●

## CONNECTORS

# ALUMINUM WEDGE CONNECTOR WITH COPPER TINNED STIRRUP

Used for electrical connections involving aluminum and copper wires and cables, in Aluminum - Aluminum and Aluminum - Copper combinations. Its installation is performed through the application tool. The spring effect connection prolongs the durability of the connection.



**Features:** spring effect connection (permanent tightening).

**Material:** aluminum body and wedge.

**Application:** electrical connections involving aluminum and copper wires and cables in Aluminum - Aluminum and Aluminum - Copper combinations.

AWG CONDUITORS	STIRRUP (AWG)	CARTRIDGES	
4-2	2	RED	●
1/0 - 2/0	2	RED	●
3/0 - 4/0	2	BLUE	●
336,4	2	BLUE	●
8	2	RED	●
6	2	RED	●

AWG CONDUITORS	STIRRUP (AWG)	CARTRIDGES	
8	2	RED	●
6	2	RED	●
4-2	2	RED	●
35 mm <sup>2</sup>	2	RED	●
50 mm <sup>2</sup>	2	RED	●
150 mm <sup>2</sup>	2	BLUE	●
1/0 - 2/0	2	BLUE	●
3/0 - 4/0	2	BLUE	●
336,4	2	BLUE	●
150 mm <sup>2</sup>	1/0	BLUE	●
336,4	1/0	YELLOW	●
336,4	4/0	YELLOW	●

Note: The Stirrup Connector is referenced by the main conductor plus stirrup.

## CONNECTORS

# WEDGE CONNECTOR INSTALLATION TOOL

This tool facilitates the work of installing wedge connectors, offering safety and speed to the operator. It can be used with polymeric or metallic cartridges.



**Features:** ensures a perfect and safe application or removal of aluminum and copper alloy wedge connectors.

**Material:** made of high mechanical strength carbon steel.

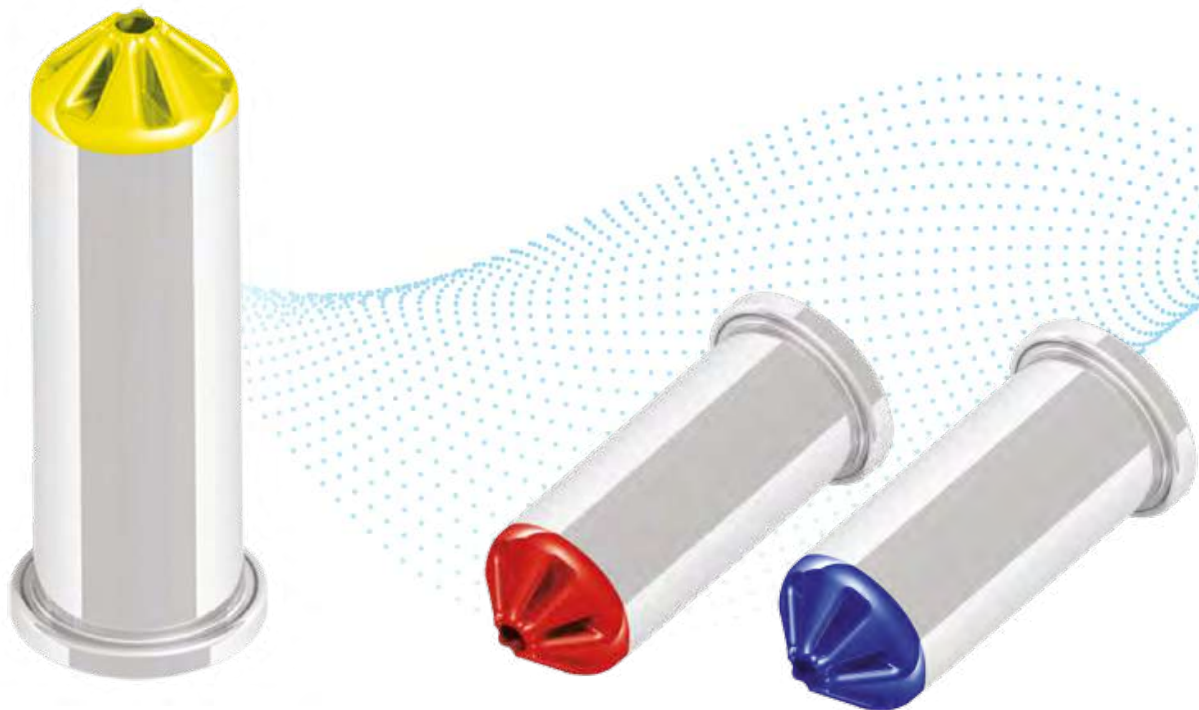
**Application:** uses metal cartridges identified by color, according to the connector model, yellow, blue or red.

### REFERENCE

Application Tool AZ / VM / BR - Metallic  
Application Tool AZ / VM / AM / BR - Metallic

## CONNECTORS

# APPLICATION CARTRIDGE FOR WEDGE CONNECTOR



CARTRIDGE	
APPLICATION CARTRIDGE COLOR	
RED	●
BLUE	●
YELLOW	●



## CONNECTORS

# ALUMINUM COMPRESSION CONNECTOR TYPE - H

Used for compression connections involving copper and aluminum wires and cables in Aluminum  
 - Aluminum and Aluminum - Copper combinations. Allows the use of stirrup.



**Features:** compression connection.

**Material:** aluminum.

**Application:** electrical connections involving copper and aluminum wires and cables in Aluminum - Aluminum and Aluminum - Copper combinations.

REFERENCE	CONDUCTORS										APPLICATION TOOL			
	SIDE A					SIDE B					MECHANICAL		HYDRAULIC	
	CA-Cu (AWG)	CA-Cu (mm <sup>2</sup> )	CAA (AWG)	Ø mm		CA-Cu (AWG)	CA-Cu (mm <sup>2</sup> )	CAA (AWG)	Ø mm		MATRIX	N°	MATRIX	N°
Mín				Máx	Mín				Máx					
CCHA 10 - 10	F8 - 6	6 - 10	8	3,15	4,12	F6 - 10	6 - 10	8	2,59	4,12	B	2	B	2
CCHA 16 - 16	F10 - 6	6 - 16	6	2,60	5,10	F10 - 6	6 - 16	6	2,60	5,10	B	5	B	2
CCHA 35 - 10	4 - 2	25 - 35	2	5,70	8,01	14 - 8	1,5 - 10	8	1,46	4,08	O	2	O	1
CCHA 35 - 25	6 - 1	16 - 35	6 - 2	4,50	8,30	8 - 4	10 - 25	8 - 4	3,60	6,40	C	4	C	2
CCHA 35 - 35	6 - 1	16 - 35	6 - 2	4,50	8,30	6 - 1	16 - 35	6 - 2	4,50	8,30	O	4	O	2
CCHA 50 - 35	1/0 - 3/0	50 - 70	1/0 - 2/0	8,90	11,8	6 - 1	16 - 35	6 - 2	4,50	8,30	D3	5	D3	2
CCHA 70 - 35	3 - 2/0	25 - 70	3 - 1/0	5,60	10,7	6 - 1	16 - 35	6 - 2	4,50	8,30	O	5	O	2
CCHA 70 - 50	1/0 - 2/0	50 - 70	1 - 2/0	8,30	11,90	1/0 - 2/0	50 - 70	1 - 2/0	8,30	11,90	D3	4	D3	1
CCHA 95 - 95	1/0 - 3/0	50 - 70	1/0 - 3/0	9,40	12,80	1/0 - 3/0	50 - 70	1/0 - 3/0	9,40	12,80	D3	5	D3	2
CCHA 120 - 10	2/0 - 4/0	70 - 120	2/0 - 4/0	10,60	14,5	16 - 8	1,5 - 10	-	1,46	4,08	D3	4	D3	1
CCHA 120 - 35	3/0 - 4/0	95 - 120	-	11,80	14,21	6 - 2	16 - 35	-	4,50	7,50	D3	5	D3	2
CCHA 120 - 95	1/0 - 4/0	50 - 120	1/0 - 4/0	8,90	14,3	1/0 - 3/0	50 - 70	1/0	8,90	11,80	D3	7	D3	3
CCHA 120 - 120	1/0 - 4/0	50 - 120	1/0 - 4/0	8,90	14,3	1/0 - 4/0	50 - 120	1/0 - 4/0	8,90	14,3	D3	7	D3	2
CCHA 150 - 70	3/0 - 300	95 - 150	-	11,8	15,97	2 - 2/0	35 - 70	-	7,39	10,51	D3	5	D3	3
CCHA 185 - 70	336,4 - 350	120 - 185	336,4	14,50	18,00	F8 - 2/0	10 - 70	4 - 2/0	3,2	11,34	-	-	N	2
CCHA 185 - 95	336,4 - 350	120 - 185	336,4	14,50	18,00	4/0	95	4/0	12,0	14,31	-	-	N	2
CCHA 185 - 185	4/0 - 400	120 - 185	4/0-336,4	14,31	17,35	4/0 - 400	120 - 185	4/0-336,4	14,31	17,35	-	-	D3	3
CCHA 240 - 70	477	240	-	20,10	20,60	F6 - 2/0	10 - 70	2 - 2/0	3,70	11,34	-	-	N	2
CCHA 240 - 150	477	240	-	20,10	20,60	336,4	120 - 150	-	14,50	16,90	-	-	N	3
CCHA 240 - 240	477	185 - 240	-	18,00	20,60	477	185 - 240	-	18,00	20,60	-	-	N	3

## CONNECTORS

# COMPRESSION CONNECTOR C IN COPPER ALLOY

Used for compression connections involving copper wires and cables.



**Features:** compression connection.

**Material:** copper alloy with high Cu content.

**Application:** electrical connections involving copper wires and cables.

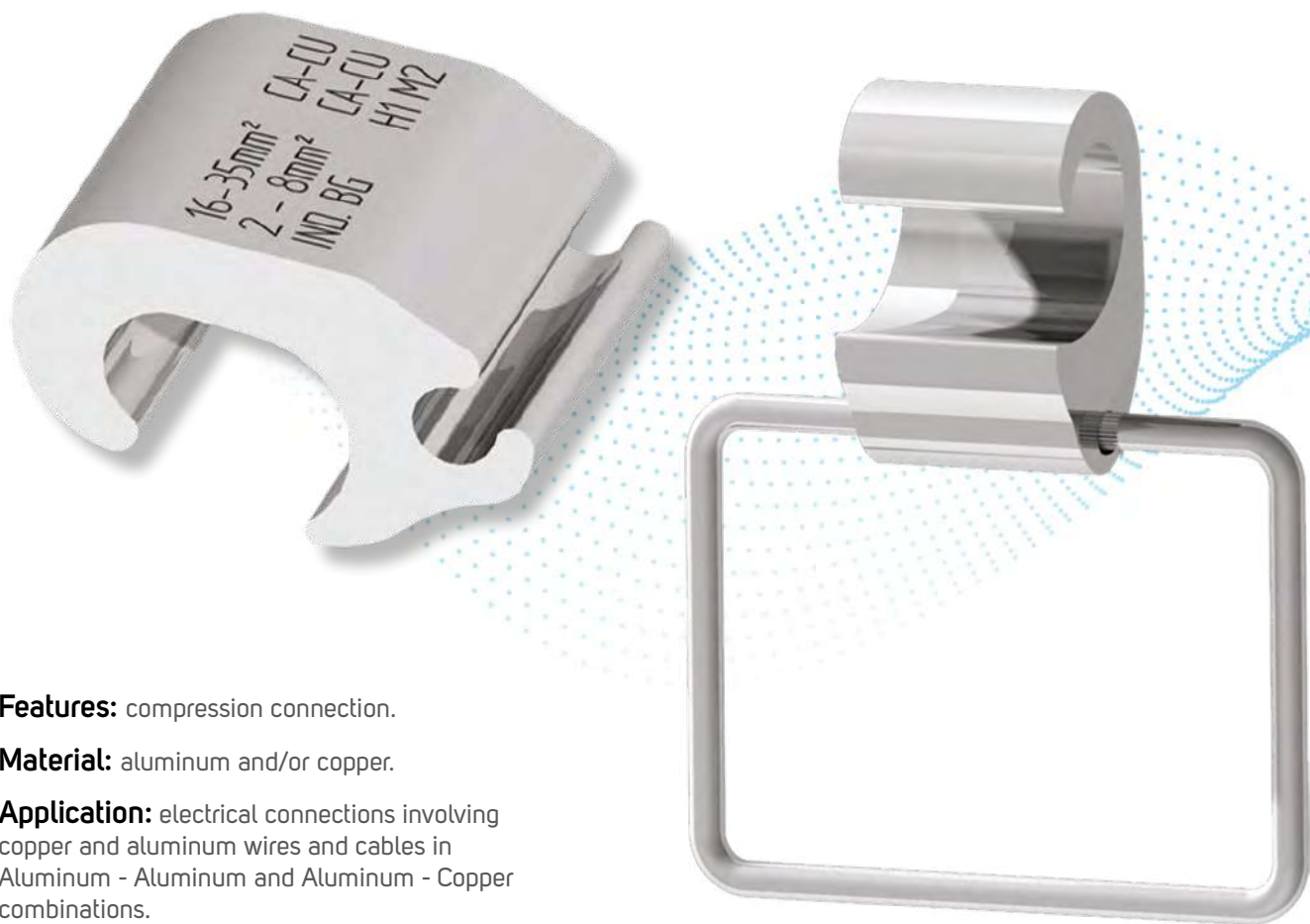
Copper

REFERENCE	TRUNK						TAP						APPLICATION TOOL	
	AWG - MCM		mm <sup>2</sup>		CONDUCTORS (mm)		AWG - MCM		mm <sup>2</sup>		CONDUCTORS (mm)		HID	N° COMP
	MIN	MÁX	MIN	MÁX	MIN	MÁX	MIN	MÁX	MIN	MÁX	MIN	MÁX		
C - 1	F8	8	F10	10	3,2	4,2	F10	8	F6	F6	2,5	3,7	162	2
C - 2	F6	4	10	16	4,2	5,8	F8	8	10	10	3,2	4,1	B	1
C - 3	F6	4	10	16	4,1	5,8	F6	6	10	10	4,1	4,6	B	1
C - 4	F6	4	-----	-----	4,1	5,8	F4	4	-----	-----	4,1	5,8	B	1
C - 5	F2	2	25	35	6,5	7,9	F8	4	10	16	3,2	5,8	C	1
C - 6	F2	2	25	35	6,18	7,5	F2	2	25	35	6,18	7,9	C	1
C - 7	1/0	2/0	50	70	9,0	11,0	F8	2	10	35	3,2	7,9	O	1
C - 8	4/0	4/0	95	120	12,36	14,5	F6	2	10	35	3,2	7,9	O	1
C - 9	2/0	2/0	50	70	9,0	11,0	2/0	2/0	50	70	9,0	11,0	D	2
C - 10	4/0	4/0	95	120	12,36	14,5	2/0	2/0	50	70	9,0	11,0	D	2
C - 11	4/0	4/0	95	120	12,36	14,5	4/0	4/0	95	120	12,36	14,5	H	2

## CONNECTORS

# ALUMINUM COMPRESSION CONNECTOR TYPE - CRIMPT AND CRIMPT WITH STIRRUP

Used for compression connections involving copper and aluminum wires and cables in Aluminum-Aluminum and Aluminum-Copper combinations with the use of stirrup.



**Features:** compression connection.

**Material:** aluminum and/or copper.

**Application:** electrical connections involving copper and aluminum wires and cables in Aluminum - Aluminum and Aluminum - Copper combinations.

Crimpt

REFERENCE	CONDUCTORS				APPLICATION TOOL			
	SIDE A		LADO B		MECHANICAL		HYDRAULIC	
	CA - Cu	CAA	CA - Cu	CAA	MATRIX	N°	MATRIX	N°
CAC - 1	1/0 - 2/0	2 - 2/0	F14 - 8	-----	0	2	0	1
CAC - 2	1/0 - 3/0	1/0 - 3/0	4 - 1/0	6 - 1/0	-----	-----	H	2
CAC - 8	336,4	336,4	336,4	336,4	-----	-----	N	3
CAC - 2-3/0 / F14-8	1/0 - 3/0	2 - 3/0	F14 - 8	-----	0	2	0	1
CAC - 16-35/2-8	16 - 35 mm <sup>2</sup>	-----	2 - 8 mm <sup>2</sup>	-----	BG	2	BG	1
CAC - 16-35/16-35	16 - 35 mm <sup>2</sup>	-----	16 - 35 mm <sup>2</sup>	-----	-----	-----	D	2
CAC - 35-70/10-25	35 - 70 mm <sup>2</sup>	-----	10 - 25 mm <sup>2</sup>	-----	0	2	0	1
CAC - 35-70/2-8	35 - 70 mm <sup>2</sup>	-----	2 - 8 mm <sup>2</sup>	-----	0	2	0	1

Stirrup

CONDUCTORS (AWG)		STRIP
Cu	CA / CAA	AWG
1/0 - 4/0	1/0 - 4/0	2

## CONNECTORS

# STIRRUP CONNECTOR WITH 2 SCREWS FOR LIVE LINE

Used for clamping connections in distribution networks for live line clamp derivation.



**Features:** clamp connection.

**Material:** aluminum with tinned copper stirrup, and bolts, nuts and washers in hot-dip galvanized steel.

**Application:** in distribution networks for live line clamp derivation.

REFERENCE	APPLICATION (AWG CA / CAA)
EC - 70	6 - 1/0



# LIVE LINE CLAMP

## GLV 40 XFR

Used for connections in the 15, 25 and 36 kV primary network involving copper and aluminum wires and cables in Aluminum - Aluminum and Aluminum - Copper combinations and Aluminum - Copper stirrups.



**Features:** The GLV 40 XFR offers agility and ease of installation, reducing operator physical effort and mitigating injury risks. It also delivers operational gains, reducing the time required to install and remove the GLV from the 15 kV primary network by more than 60%. In addition, the connector reduces operational failures and allows ground operation due to the spring compression system. Overall, its use brings benefits in terms of efficiency, productivity, reliability and safety.

**Material:**

- Aluminum alloy body and saddle.
- Oblong screw and M10 hexagonal screw in copper alloy.
- Stainless steel springs.
- Alloy steel pins.

**Surface treatment:** Body and Saddle - copper plated and tin plated allowing bimetallic connections.

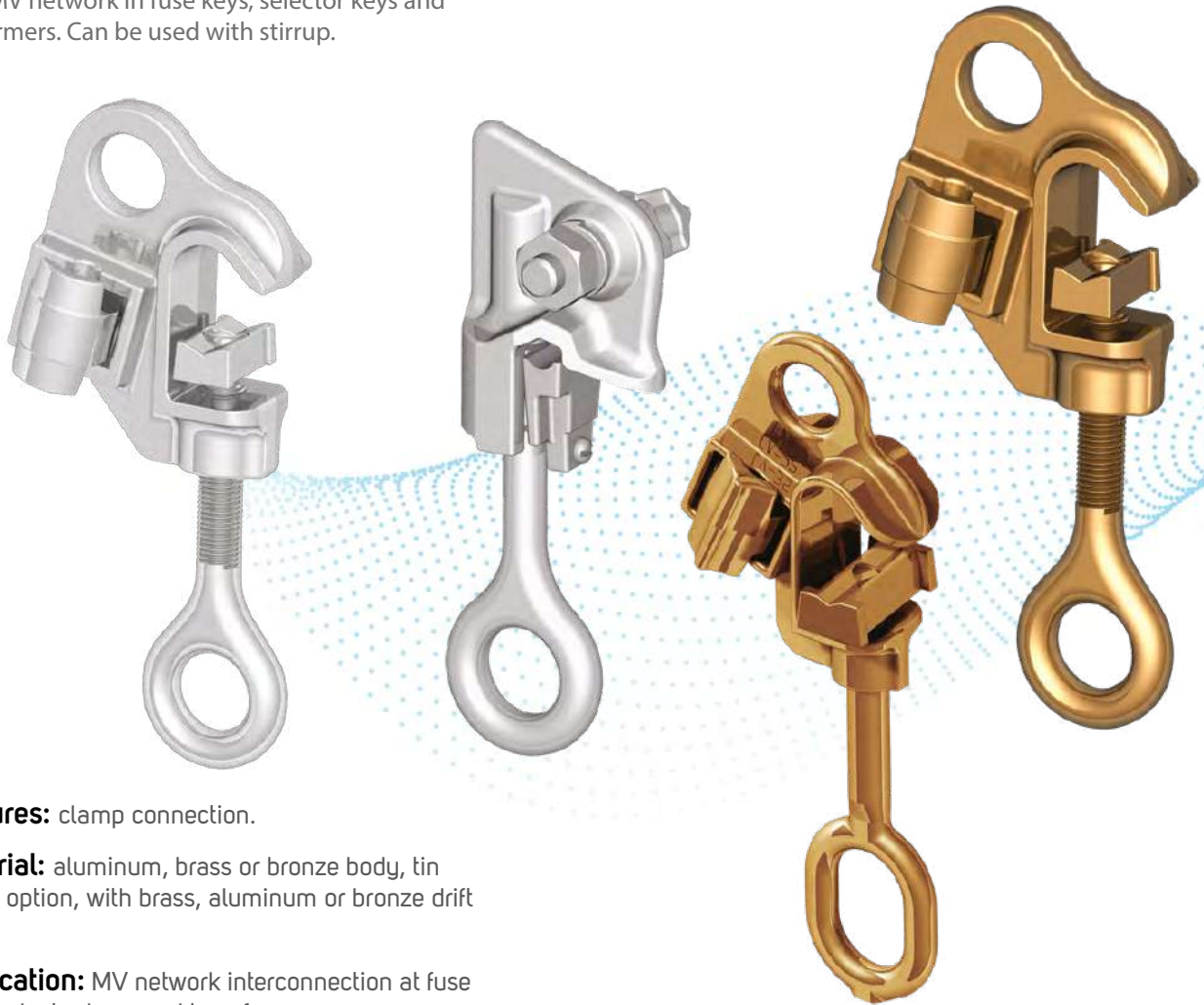
**Application:** Aluminum - Aluminum and Aluminum - Copper combinations and Aluminum - Copper stirrups.

REFERENCE	APPLICATION RANGE (mm <sup>2</sup> )		MAXIMUM CURRENT CAPACITY
	MAIN	TAP	
GLV 40 XFR	Stirrup 3 - 4/0 AWG AlCu	25 - 95 mm <sup>2</sup> / 4 - 3/0 AWGCA/Cu	400(A)

# CLAMPS

## LIVE LINE CLAMP

Used for connections by tightening in interconnection of the MV network in fuse keys, selector keys and transformers. Can be used with stirrup.



**Features:** clamp connection.

**Material:** aluminum, brass or bronze body, tin plated option, with brass, aluminum or bronze drift screw.

**Application:** MV network interconnection at fuse keys, selector keys and transformers.

Live Line Clamp

REFERENCE	APPLICATION (mm <sup>2</sup> )		MATERIAL	
	MAIN	TAP	BODY	SCREWS
GLV-30	10 - 120	8 - 70	BRONZE	COPPER ALLOY
GLV-35	10 - 120	10 - 70	COPPER ALLOY	COPPER ALLOY
GLV-40	10 - 120	10 - 70	COPPER ALLOY	COPPER ALLOY
GLV-50	10 - 150	8 - 70	ALUMINIUM	COPPER ALLOY
GLV-60	10 - 120	10 - 70	COPPER ALLOY	COPPER ALLOY
GLV-45.1	35 - 53	10 - 70	BRONZE	BRONZE
GLV-45-1	25 - 120	10 - 70	BRONZE	BRONZE

Stirrup

REFERENCE	APPLICATION (mm <sup>2</sup> )		MATERIAL		
	MAIN	TAP	BODY	SCREWS	STRIBO
GLV-50 AL ESTRIBO	10 - 150	STRIP 2 AWG Cu	ALUMINIUM	Copper Alloy	TINNED COPPER

## CLAMPS

# HANDLE FOR TINNED COPPER STIRRUP CONNECTOR

Made of tinned electrolytic copper. Designed to fit wedge connectors and compression connectors.



**Features:** spring effect and compression connection.

**Material:** tinned electrolytic copper.

**Application:** electrical connections involving aluminum and copper wires and cables in Aluminum - Copper combinations.

REFERENCE	FIGURE	DIAMETER (AWG)
EC 60 SOLDIER	1	2
EC 60 A	1	2
EC 62	2	2

## CLAMPS

# ALUMINUM PARALLEL CLAMP TYPE - FC

Used for clamp connections involving wires and cables in Aluminum - Aluminum, Aluminum - Copper or Copper - Copper combinations.



FIG.1



FIG.2

**Features:** clamp connection.

**Material:** aluminum body with screw(s), nut(s) and washer(s) in hot-dip galvanized steel.

**Application:** electrical connections involving copper and aluminum wires and cables in Aluminum - Aluminum or Aluminum - Copper combinations.

REFERENCE	APPLICATION (AWG)		FIGURE
	MAIN	TAP	
FC - 26	10 - 2/0	6 - 1/0	1
FC - 40	1/0 - 4/0	8 - 1/0	1
FC - 35	10 - 2/0	6 - 1/0	2
FC - 45	1/0 - 4/0	8 - 1/0	2



## CLAMPS

# BRONZE PARALLEL CLAMP TYPE - BX

Used for clamp connections involving wires and cables in Aluminum - Aluminum, Aluminum - Copper or Copper - Copper combinations.



**Features:** clamp connection.

**Material:** body in tin-plated bronze with screw(s), nut(s) and washer(s) in galvanized steel or tin-plated bronze.

**Application:** electrical connections involving copper and aluminum wires and cables in Aluminum - Copper or Copper - Copper combinations.

REFERENCE	APPLICATION (AWG)		SCREW		SCREWS QTY
	MAIN	TAP	MATERIAL	BODY / COVER	
BX - 10 SN	6 - 70	6 - 70	AÇO	BRONZE	1
BX - 25 SN	16 - 120	16 - 120	AÇO	BRONZE	2
BX - 10.1 SN	6 - 70	6 - 70	BRONZE	BRONZE	1
BX - 25.1 SN	16 - 120	16 - 120	BRONZE	BRONZE	2

## CLAMPS

# SUSPENSION AND ANCHORING CLAMP

Suspension set for secondary multiplexed cable network, used for anchoring the low voltage multiplexed secondary network with neutral between 50 and 70 mm<sup>2</sup>.



**Characteristics:** suspension assembly for secondary multiplexed cable network.

**Material:** aluminum body, ring, washer and clip.

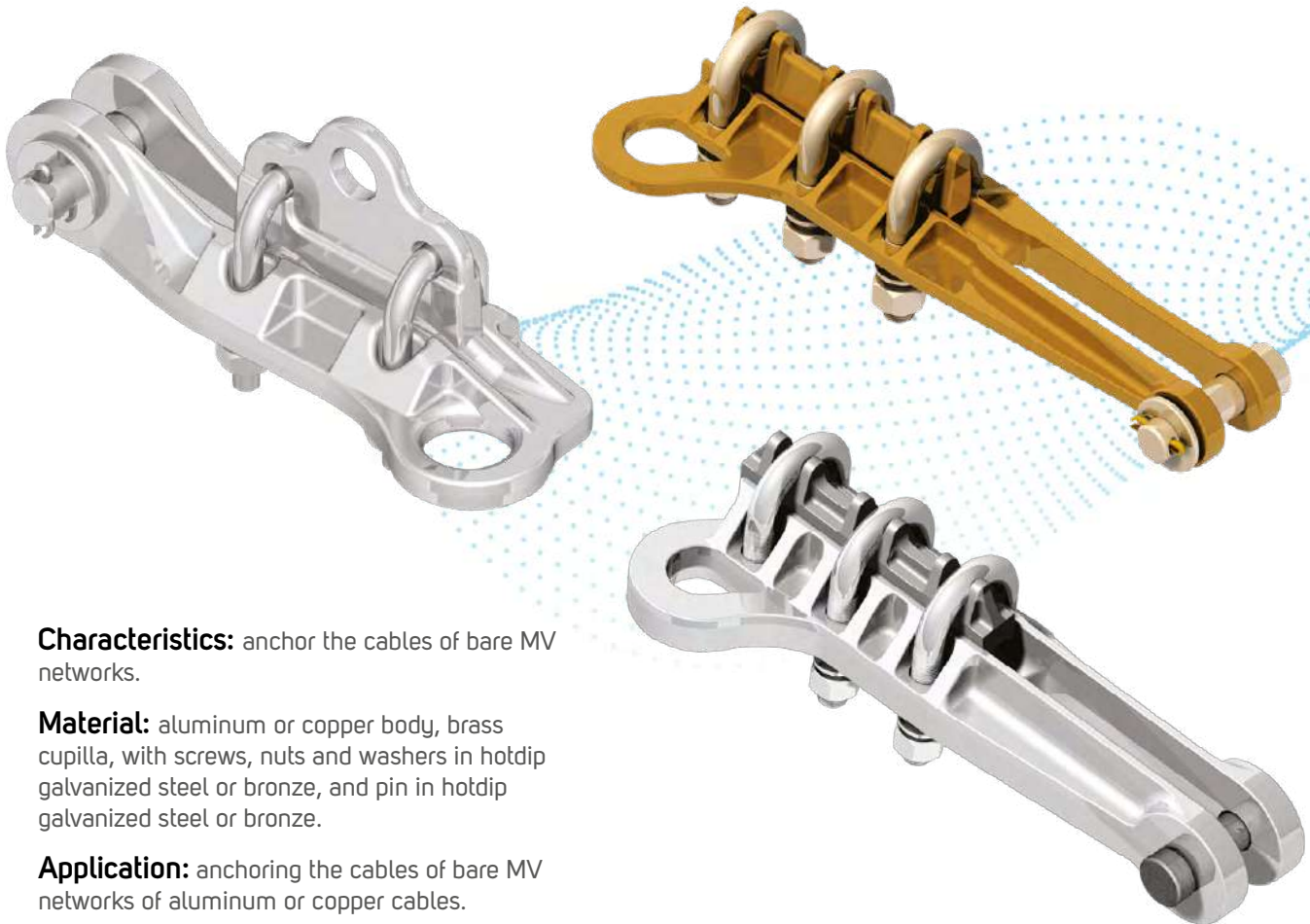
**Application:** anchoring of low voltage secondary multiplexed network with neutral between 50 to 70 mm<sup>2</sup>.

REFERENCE	FIGURE
SET	1
SUPPORT	2
PRESILLE	3
HOOK	4
ELO	5

## CLAMPS

# ALUMINUM OR COPPER ALLOY ANCHOR CLIPS

Used to anchor cables of bare MV networks of aluminum or copper cables.



**Characteristics:** anchor the cables of bare MV networks.

**Material:** aluminum or copper body, brass cupilla, with screws, nuts and washers in hotdip galvanized steel or bronze, and pin in hotdip galvanized steel or bronze.

**Application:** anchoring the cables of bare MV networks of aluminum or copper cables.

Aluminum

CONDUCTORS		BREAKING LOAD (DAN)
CONDUCTOR GAUGE (AWG / MCM)		
CA/CAA	CA/CAA	2000
4	2/0	2000

Aluminum

CONDUCTORS		BREAKING LOAD (DAN)
CONDUCTOR GAUGE (AWG / MCM)		
CA	CAA	3500
4/0	336,4	3500

Copper

CONDUCTORS		BREAKING LOAD (DAN)
CONDUCTOR GAUGE (AWG / MCM)		
Cu	Cu	2000
25	70	2000

Copper

CONDUCTORS		BREAKING LOAD (DAN)
CONDUCTOR GAUGE (AWG / MCM)		
Cu	Cu	3500
25	120	3500

## TERMINALS

### CTMR-1X

Used to make connections in aluminum or copper conductors for installations in meter terminals ensuring safety and agility.



**Features:** connector has a retractable spring-loaded stainless steel protective cover, preventing exposure of energized parts. It has 0.6/1.0 (1.2) kV insulation for proper electrical safety when servicing or changing electrical energy meters.

**Material:**

Body and retractable system (telescopic): insulating polymer.

Spring: stainless steel

Contact: tinned copper alloy.

Screw: allen 3mm in zinc alloy.

**Application:** The terminal connects both aluminum and copper cable in all grades.

REFERENCE	APPLICATION RANGE	VOLTAGE CLASS
CTMR-1X	6 mm <sup>2</sup> - 35 mm <sup>2</sup>	0,6/1,0 (1,2 kV)



## TERMINALS

# TERMINAL CONNECTOR SWORD TYPE 2 AND 4 HOLES

Made of aluminum alloy with high mechanical strength and electrical conductivity. Used for connections in selector switches, busbars, transformers, jumpers, distribution networks up to 36 kV and substations up to 230 kV.



**Characteristics:** connection of electrical equipment to the distribution system.

**Material:** aluminum alloy with high conductivity and mechanical strength.

**Application:** used with INCESA wedge connectors, they are intended for connections on selector switches, busbars, transformers, and other equipment in distribution networks.

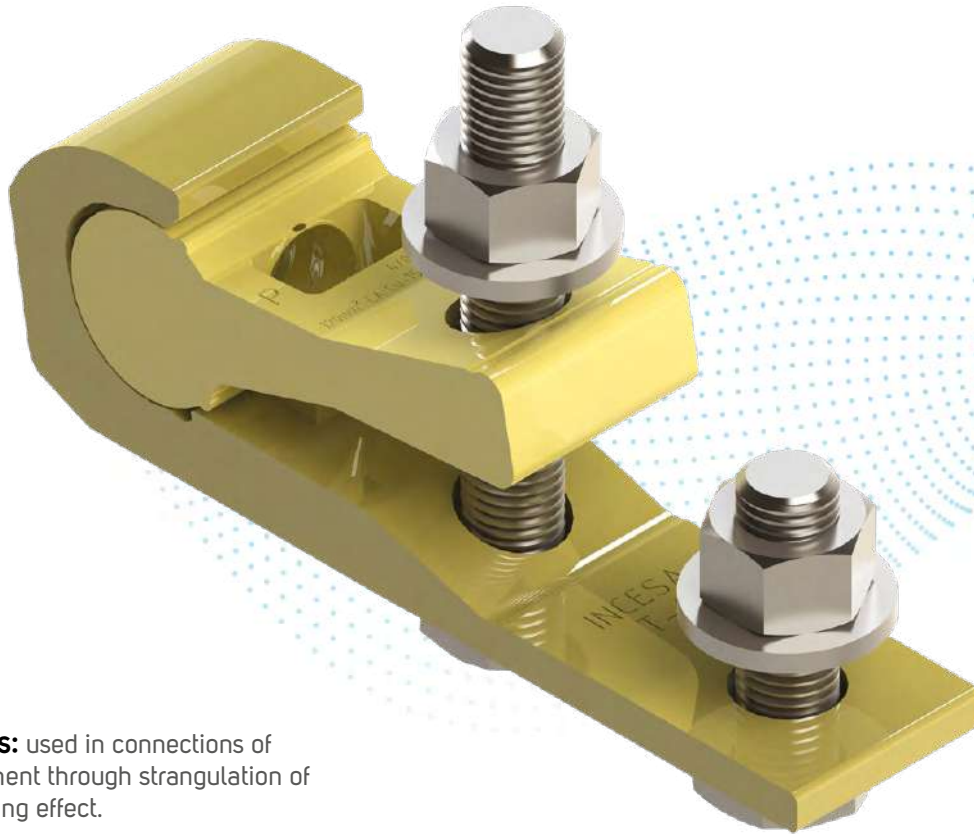
### REFERENCE

Sword type Terminal 2 holes 4/0 AWG
Sword type 2 holes 336,4 MCM
Sword type Terminal 4 holes 4/0 AWG
Sword type Terminal 4 holes 336.4 MCM

# TERMINALS

## ARTICULATED TERMINAL

Developed in aluminum, it ensures higher quality connections of electrical equipment in low and medium voltage systems. It has several variations of sizes for different gauges and cables.



**Characteristics:** used in connections of electrical equipment through strangulation of the driver by spring effect.

**Material:** high conductivity aluminum.

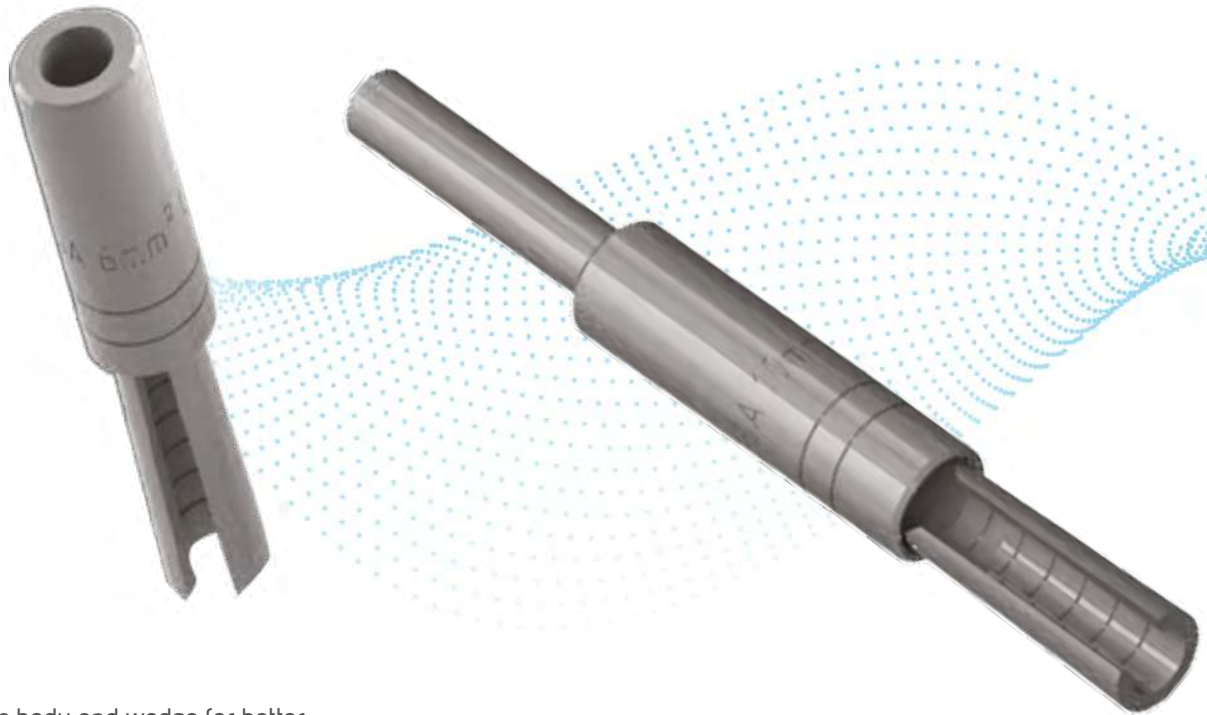
**Application:** connection of electrical equipment involving aluminum, aluminum core and copper conductors. Can be used in low and medium voltage connections.

REFERENCE	Diameter Range (mm)		Combinations						Holes (Nema Standard)
	Minor Side	Bigger Side	Bare Cables (AWG/MCM)		Bare Cables (mm <sup>2</sup> )		Insulated Cables (mm <sup>2</sup> )		
			Minor Side	Bigger Side	Minor Side	Bigger Side	Minor Side	Bigger Side	
TP-3	6,70 - 7,30	7,31 - 8,10	4 AWG CAA	2 AWG CA-Cu 2 CAA	-	35 CA-Cu	35 Compacted CA-Cu	50 Compacted CA-Cu	1
TP-4	9,00 - 9,70	10,00 - 10,60	1/0 CA-Cu	2/0 CA-Cu 1/0 CAA	50 CA-Cu 50 CAL	70 CA-Cu 70 CAL	70 Compacted CA-Cu	-	2
TP-5	11,20 - 12,30	12,70 - 13,30	3/0 CA-Cu 2/0 CAA	4/0 CA-Cu 3/0 CAA	95 CA-Cu	-	95 Compacted CA-Cu	120 Compacted CA-Cu	2
TP-6	14,20 - 14,40	14,50 - 15,10	4/0 CAA	266,8 CA-Cu	-	120 CA-Cu	150 Compacted CA-Cu	-	2
TP-7	15,45 - 17,00	17,30 - 18,90	266,8 CAA 336,4 CA-Cu	397,5 CA-Cu 336,4 CAA	150 CA-Cu	185 CA-Cu	185 Compacted CA-Cu	240 Compacted CA-Cu	2
TP-8	20,00 - 20,80	21,70 - 22,50	477 CA-Cu 397,5 CAA	556,5 CA/Cu 477 CAA	240 CA-Cu	300 CA-Cu	300 Compacted CA-Cu	350 Compacted CA-Cu	2

## TERMINALS

# ADAPTER TERMINAL FOR CONCENTRIC CABLES

Used to adapt the ends of aluminum or copper conductors for installations in meter terminals, distribution boxes and others. Its pressure application system provides a clean, safe and corrosion-resistant connection and temperature variations.



**Features:** has body and wedge for better stability of the connection.

**Material:** copper alloy with silver plating.

**Application:** the best solution for connecting concentric cables to consumers' input meters.

### REFERENCE

Adapter Connector AL-Cu 6 mm <sup>2</sup>
Adapter connector AL-Cu 10 mm <sup>2</sup>
Adapter Connector AL-Cu 16 mm <sup>2</sup>
Adapter Connector w/ AL-Cu Rod 6 mm <sup>2</sup>

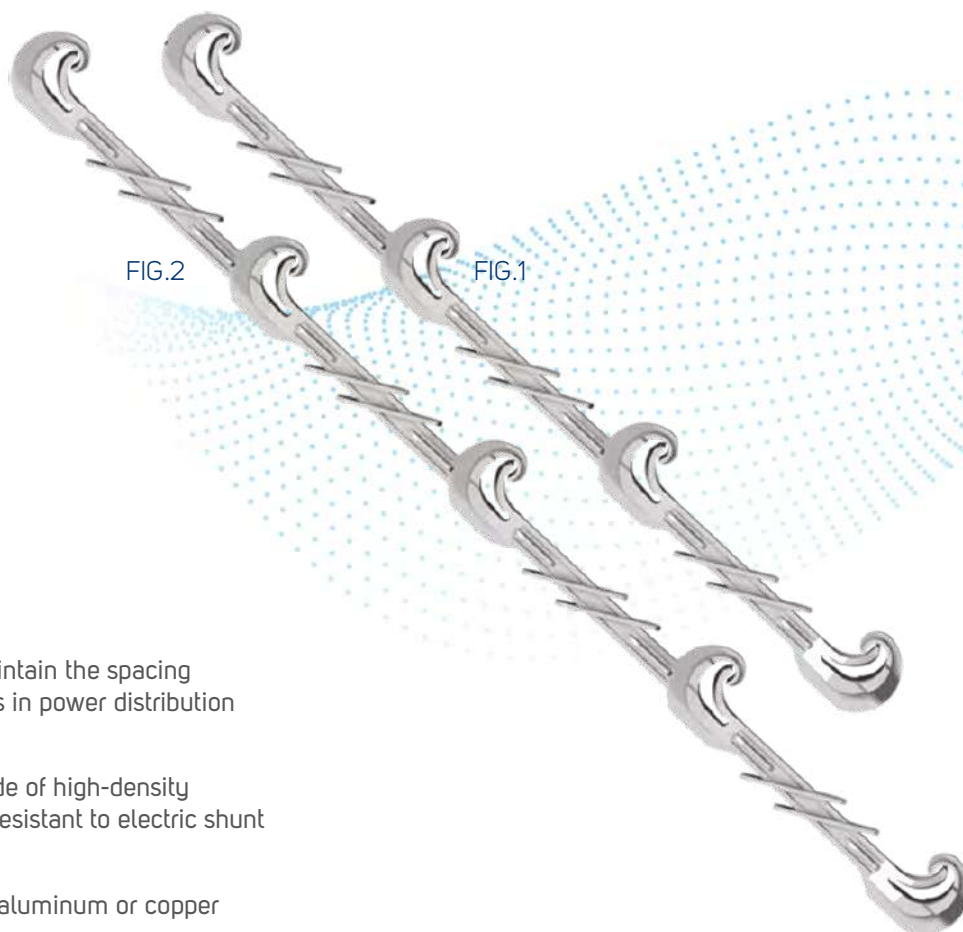
### REFERENCE

Adapter Connector w/ AL-Cu Rod 10 mm <sup>2</sup>
Adapter Connector w/ AL-Cu Rod 16 mm <sup>2</sup>
Achat AL-Cu Stem Adapter Connector 6 mm <sup>2</sup>
Achat AL-Cu Stem Adapter Connector 10 mm <sup>2</sup>
Achat AL-Cu Stem Adapter Connector 16 mm <sup>2</sup>

## SPACERS

### PHASE SEPARATOR FOR BT

Used to maintain the spacing between cables in distribution networks. It offers agility and safety in the installation, as it does not require moorings. Patented product.



**Features:** maintain the spacing between cables in power distribution networks.

**Material:** made of high-density polyethylene, resistant to electric shunt and UV.

**Application:** aluminum or copper wires and cables.

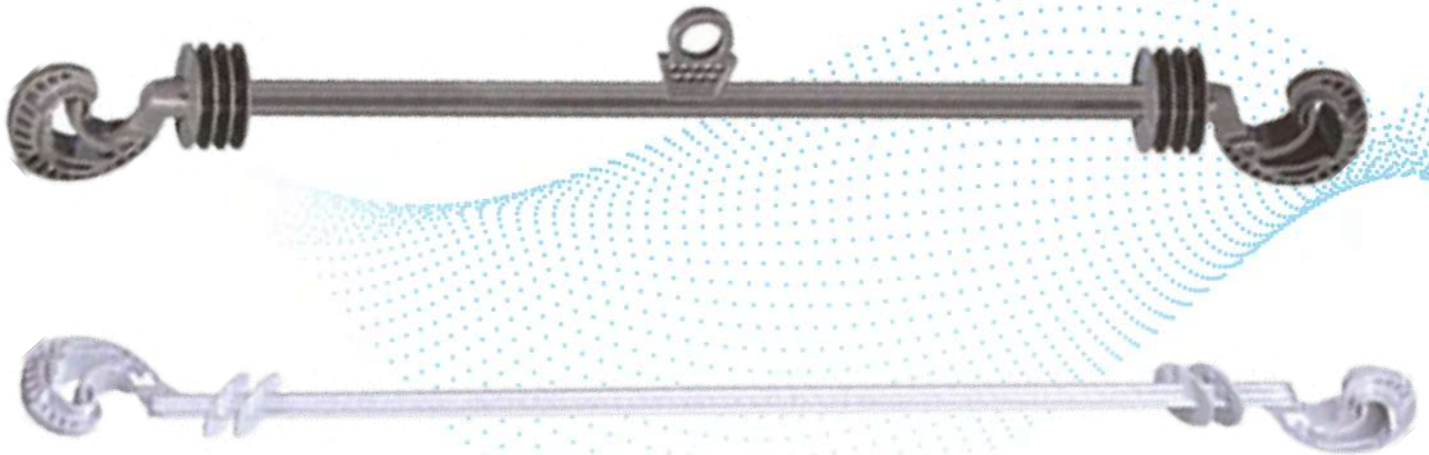
REFERENCE	FIGURE	APPLICATION (AWG/MCM)	
		MÍN	MÁX
SECONDARY SPACER 5 CONDUCTORS	FIG. 2	6	336,4
SECONDARY SPACER 4 CONDUCTORS	FIG. 1	6	336,4



## SPACERS

# PHASE SEPARATOR FOR PRIMARY NETWORK AND PRIMARY NETWORK WITH FLY-TAP

Produced to ensure adequate spacing between conductors in primary networks, INCESA separators can be applied to conductors of different gauges. Without ties and with simple and very fast application.



**Features:** maintain the spacing of electrical power conductors in the primary distribution network up to 36 kV.

**Material:** high-density polymer, resistant to electric stunt and UV rays.

**Application:** conductors from 6 AWG to 336.

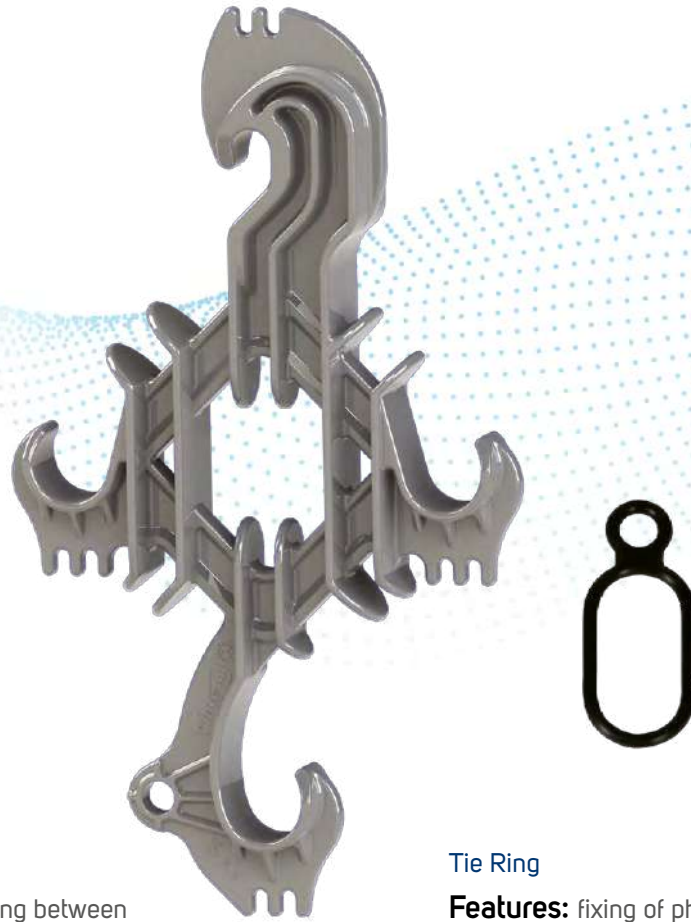
REFERENCE	Lenght (mm)
Primary Network Spacer 450 mm	450
Primary Network Spacer 550 mm	550
Primary Network Spacer 650 mm	650
Primary Network Spacer 750 mm	750
Primary Network Spacer 1000 mm	1000
Primary Network Spacer 1200 mm	1200
Fly-Tape Spacer Primary Net 750 mm	750

## SPACERS

# POLYMERIC DIAMOND SPACER / MOORING RING

Used to maintain the spacing between the phase cables of compact power distribution networks. It has a unique design with inclined fins that increase the flow distance.

Ring for fixing the cables to the diamond spacer. Special rubber formulation allows easy stretching during installation.



### Polymeric Diamond Spacer

**Features:** maintain the spacing between phase cables of compact power distribution networks.

**Material:** made of high-density polyethylene, resistant to electric shunt and UV.

**Application:** protected cables from 35 mm<sup>2</sup> to 185 mm<sup>2</sup>.

### Tie Ring

**Features:** fixing of phase and neutral (messenger) cables of compact power distribution networks.

**Material:** produced in EPDM or silicone.

**Application:** on diamond spacers.

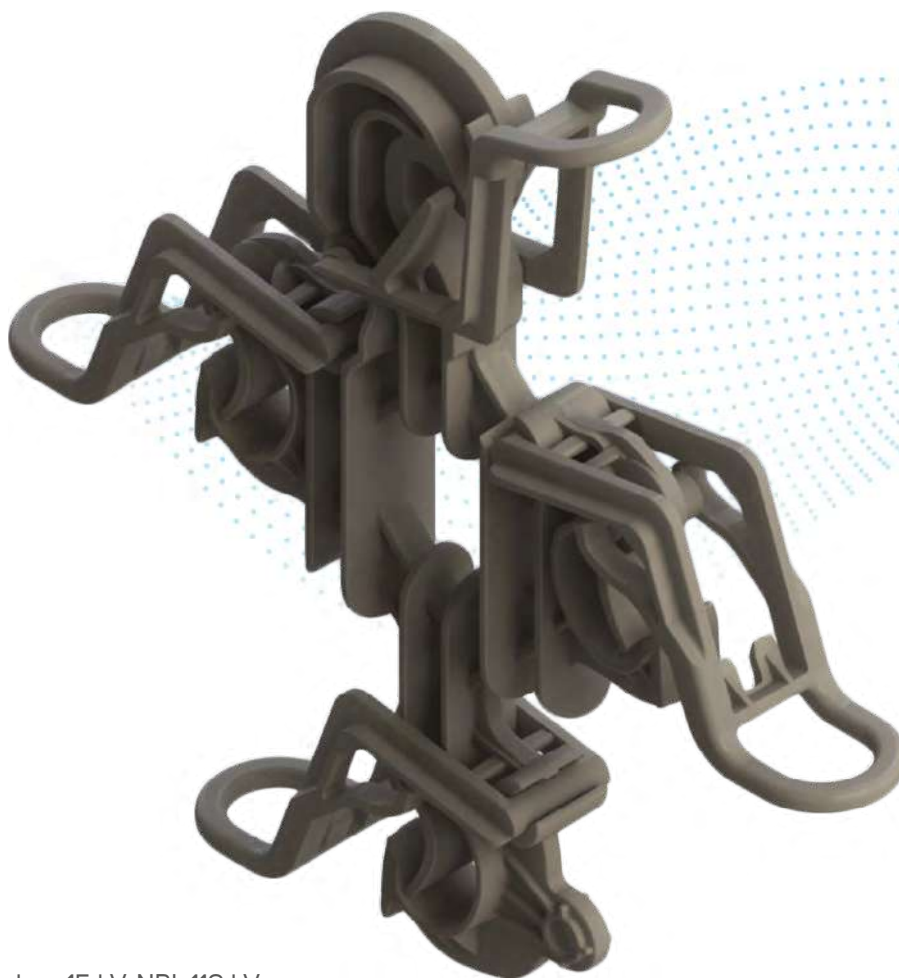
REFERENCE	TENSION CLASS (kV)
DIAMOND SPACER	15

REFERENCE
EPDM MOORING RING
SILICONE MOORING RING

## SPACERS

# DIAMOND SPACER SELF-LOCKING

Used in 15 kV compact distribution network for spacing between conductors and messenger cable. It has a self-locking system that allows fixing conductors from 35 to 300 mm<sup>2</sup> in a single stage. It can be applied from the ground with the use of a maneuvering rod (accessory required) allowing its use even in places of difficult access for vehicles and stairs.



**Features:** Voltage class 15 kV. NBI: 110 kV.  
Resistant to traction, torsion and impact.  
Resistant to electrical shunt. Anti UV protection.

**Material:** produced in high density polyethylene with anti-UV protection and resistant to electrical shunt. Material with insulation level, which inhibits the conduction of electric current, avoiding short circuits and rupture of conductors in the electrical network.

**Application:** applied to covered conductors in compact networks with gauges from 35 to 300 mm<sup>2</sup>.

## POLYMERIC INSULATOR

# POLYMERIC INSULATOR 15/25 KV SELF-LOCKING



**Features:** voltage class 15 kV/25 kV. Resistant to traction, torsion and impact. Resistant to electrical shunt. Anti-UV protection.

**Material:** produced in polymeric materials with mechanical strength and resistance to weathering, avoiding short circuits and breakage of conductors in the electrical network.

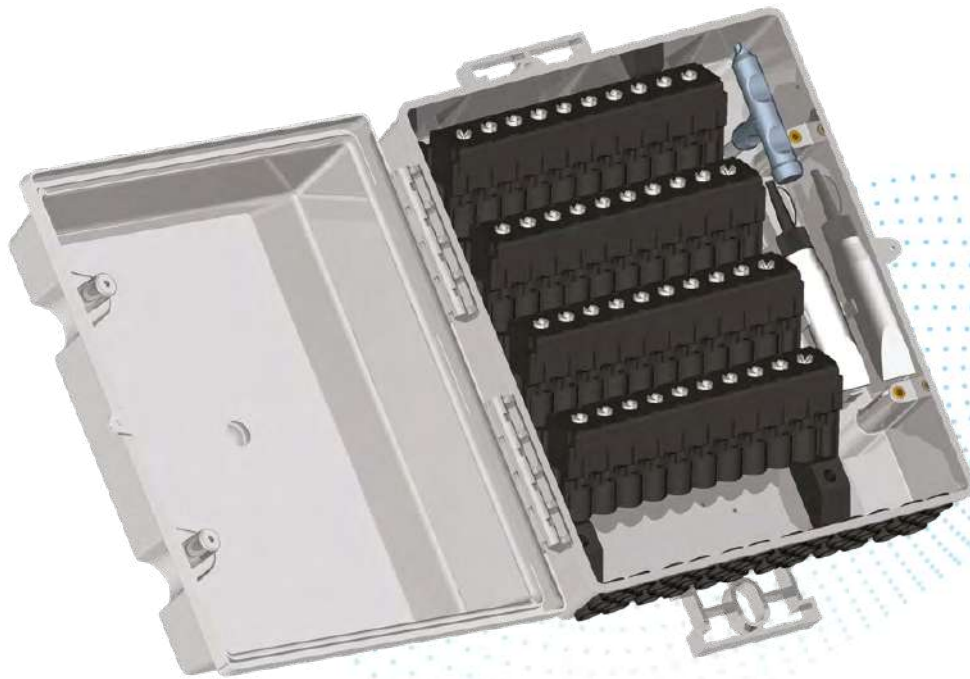
**Application:** applied to covered conductors in compact networks with gauges from 35 to 300 mm<sup>2</sup>.



## BOXES

# DISTRIBUTION BOXES

Plastic housing, made of UV-resistant polycarbonate. Allows singlephase, two-phase and three-phase connections.



**Features:** plastic housing with IP, according to utility standards.

**Material:** polycarbonate, UV resistant.

**Application:** in consumer connection branches, power input panels and connection of concentric cables, and can be installed next to the secondary power network or internally in buildings, residences and commerce.



## BOXES

# POLYMERIC BUSBAR BOX



**Features:** multiple derivations through perforating system with spring fixation.

**Material:** housing and busbars in polymeric materials and contacts in copper alloys with tin-plated surface finish.

**Application:** in consumer connection branches, power input panels and connection of concentric cables, and can be installed next to the secondary power network or internally in buildings, residences and commerce.



## BUSBAR

# CONNECTOR FOR MULTIPLE CONNECTIONS (BUS)

Exclusive system of connections by busbar with On-Off system without disconnection of the cables. Patented product.



**Features:** spring effect connection (permanent tightening).

**Material:** insulating polymer body and tinned copper busbar.

**Application:** electrical connections involving aluminum and copper wires and cables.

### SIMPLIFIED TECHNICAL TABLE

INSULATION CAPACITY	NBI 1 kV
CONDUCTORS (GAUGES)	2,5 a 50 mm <sup>2</sup>
CURRENT	300/150 A rms
TENSION	1.000 V rms

# GROUNDING

## ROD FROM GROUNDING

NBR 13571

Carbon steel rod with 254 microns copper coating



**Features:** copper-plated carbon steel bar.

**Material:** copper-coated carbon steel with a thickness of 254 microns (10 mils).

**Application:** grounding of residential distribution networks, entrance standard and other grounding systems.

### Low Layer Grounding Rod

DESCRIPTION	STAMP ENGRAVING	DIAMETER	LENGTH
Rod B/C 858 10 $\mu$	IH - 858 - 2400MM	12,1 mm	2400 mm

### High Layer Grounding Rod

REFERENCE	$\emptyset$	LENGTH
HC - 812 AC	13 mm 1/2"	2400 mm
HC - 858 AC	14,5 mm 5/8"	2400 mm
HC - 1058 AC	14,5 mm 5/8"	3000 mm
HP - 1034 AC	17,3 mm 3/4"	3000 mm

### Extendable Grounding Rod

REFERENCE	$\emptyset$	LENGTH
HC - BC	13,5 mm	2400 mm

### Extendable Grounding Rod

REFERENCE	$\emptyset$	LENGTH
HC - AC	1/2"	1500 mm



## GROUNDING

# VERTICAL GROUNDING WEDGE CONNECTOR CCAV

Used in connections of the rods with the grounding cables. It has a spring effect connection that allows high durability without damaging the rod cover.



**Features:** spring effect connection (permanent tightening).

**Material:** body and wedge in tinned copper.

**Application:** electrical connections involving the ground rod and copper or aluminum cables.

APPLICATION		MATERIAL
ROD	CABLE (mm <sup>2</sup> )	BODY/CUNCH
5/8" - Ø14,3 mm	25 - 35	COVER
5/8" - Ø14,3 mm	25 - 35	TINNED COPPER
Ø13 mm	25 - 35	COVER
Ø13 mm	25 - 35	TINNED COPPER
5/8" - Ø14,3 mm	6 - 16	TINNED COPPER
5/8" - Ø14,3 mm	6 - 16	COVER

## GROUNDING

# GROUNDING CLAMP TYPE - PC

Used for clamping connections in low and medium voltage grounding systems.



**Features:** clamp connection.

**Material:** bronze or brass body with bronze, brass or steel screw.

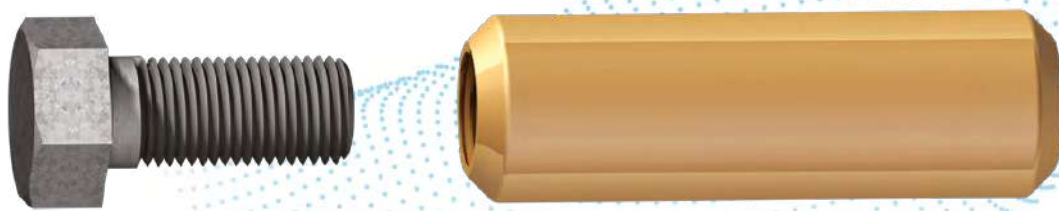
**Application:** electrical connections involving ground rod and copper cables.

REFERENCE	ROD	CONDUCTOR		MATERIAL
		AWG	mm <sup>2</sup>	
PC - 25	1/2" - 5/8"	8 - 2	10 - 35	LATÃO
PC - 30	1/2" - 3/4"	8 - 2/0	6 - 70	LATÃO
PC - 35	1/2" - 5/8"	8 - 2/0	6 - 70	LATÃO
PC - 25.1	1/2" - 5/8"	8 - 2/0	6 - 70	BRONZE
PC - 35.1	5/8"	8 - 1/0	6 - 50	BRONZE
PC - 20	5/8"	10 - 2	6 - 35	LATÃO
PC - 20	5/8"	10 - 2	6 - 35	BRONZE

## GROUNDING

# SPLICE SLEEVE FOR GROUND ROD

Made of bronze alloy, with internal thread to allow perfect connection between the extendable rods.



REFERENCE	THREAD
PRC - 1	5/8"

REFERENCE	THREAD
LU - 1	5/8"

## Copper and Aluminum Wires and Cables

AWG MCM	Ø (mm)		SECTION (mm <sup>2</sup> )	WEIGHT (kg / km)		AMPÈRES (Cu CABLES) (+ 30°C)	
	COPPER OR ALUMINUM WIRE	COPPER OR ALUMINUM CABLE		COVER CABLE	ALUMINUM CABLE (AWG)	FREE AIR 30°C	UP TO 3 IN DUTY
22	0,64	-	0,3	2,9	-	-	-
20	0,81	0,92	0,5	4,7	-	-	3
18	1,02	1,15	0,8	7,5	-	-	5
16	1,29	1,46	1,3	11,9	-	-	7
14	1,63	1,84	2,1	18,9	-	-	15
12	2,05	2,32	3,3	30,0	-	-	20
10	2,59	2,95	5,3	47,7	-	-	30
9	2,90	3,30	6,6	60,2	-	-	35
8	3,26	3,71	8,4	75,9	-	-	40
7	3,66	4,17	10,5	95,7	-	-	47
6	4,12	4,65	13,3	121	-	-	55
5	4,62	5,26	16,8	152	-	-	67
4	5,18	5,87	21,2	190	58,4	133	70
3	5,82	6,63	26,7	240	73,6	152	83
2	6,54	7,39	33,6	305	92,8	179	95
1	7,34	8,38	42,4	385	117	212	110
1/0	8,25	9,47	53,5	485	147	248	125
2/0	9,27	10,60	67,4	611	186	286	145
3/0	10,40	11,90	85	771	234	335	165
4/0	11,70	13,40	107	972	296	388	195
250	-	14,60	127	1150	350	434	215
300	-	16,00	152	1380	419	484	240
350	-	17,30	177	1610	489	528	260
400	-	18,50	203	1840	559	583	280
450	-	19,60	228	2069	629	624	300
500	-	20,70	253	2300	699	670	320
600	-	22,70	304	2760	839	756	355
700	-	24,50	355	3220	979	820	385
750	-	25,40	380	3450	1048	868	400
800	-	26,20	405	3680	1118	890	410
900	-	27,80	456	4138	1258	946	435
1000	-	29,30	507	4590	1398	1038	455



# CABLE TABLES

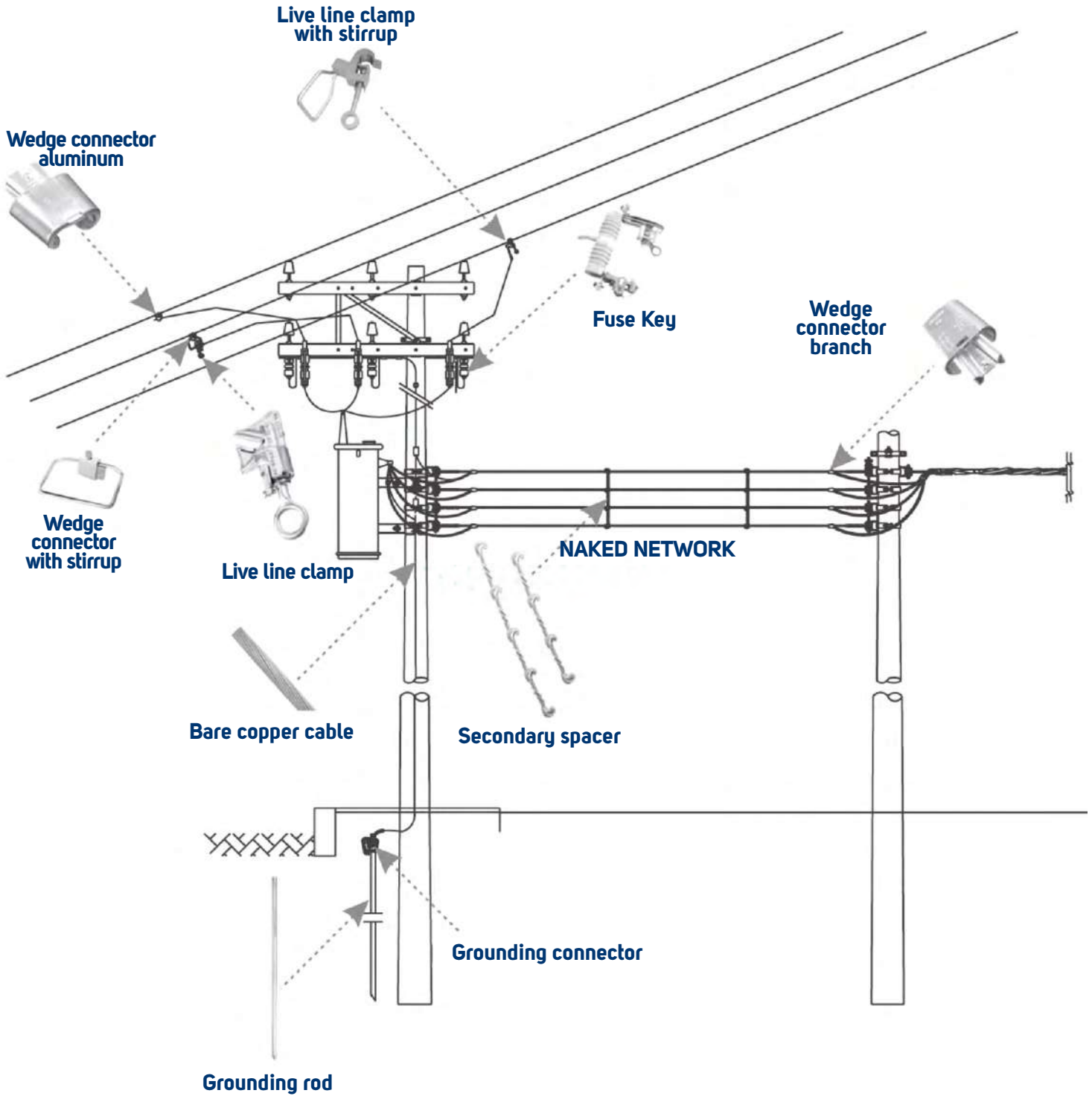
## ACSR cables (Aluminum with Steel Core)

AWG MCM	COMPOSITION	N° COPPER EQUIVALENT	EXTERNAL (mm)	ALUMINUM SECTION (mm)	WEIGHT (kg / km)	LOAD BREAK (kg)
6	6/1	8	5,04	13,30	53,60	530
5	6/1	7	5,67	16,70	67,60	660
4	6/1	6	6,36	21,20	85,30	830
4	7/1	6	6,53	21,20	99,80	1038
3	6/1	5	7,14	26,60	108	1025
2	6/1	4	8,01	33,60	136	1265
2	7/1	4	8,26	33,60	159	1599
1	6/1	3	9,00	42,40	171	1585
1/0	6/1	2	10,11	53,50	216	1940
2/0	6/1	1	11,40	67,40	272	2425
3/0	6/1	1/0	12,80	85	343	3027
4/0	6/1	2/0	14,30	107	433	3820
266,8	6/7	3/0	16,10	135	506	4330
266,8	26/7	3/0	16,30	135	545	5100
300	26/7	188,7	17,30	152	613	5730
300	30/7	188,7	17,80	152	697	7000
336,4	26/7	4/0	18,30	170	688	6375
336,4	30/7	4/0	18,80	170	782	7735
397,5	26/7	250	19,90	201	812	7340
397,5	30/7	250	20,50	201	923	9060
477	26/7	300	21,80	241	975	8820
477	30/7	300	22,40	241	1108	10540
556,5	26/7	350	23,60	282	1137	10190
556,5	30/7	350	24,20	282	1293	12360
605	54/7	380,5	24,20	306	1158	10210
605	26/7	380,5	24,50	306	1232	10929
605	30/19	380,5	25,30	306	1389	13605
636	54/7	400	24,80	322	1218	10730
636	26/7	410	25,20	322	1299	11340
636	30/19	400	25,90	322	1466	14330
666,6	54/7	419	25,40	337	1276	11140
715,5	54/7	450	26,30	362	1370	11950
715,5	26/7	450	26,70	362	1462	12750
715,5	30/19	450	27,50	362	1648	15690
795	54/7	500	27,80	402	1522	12950
795	26/7	500	28,10	402	1624	14175
795	30/19	500	29,00	402	1833	17440
874,5	54/7	550	29,10	441	1674	14245

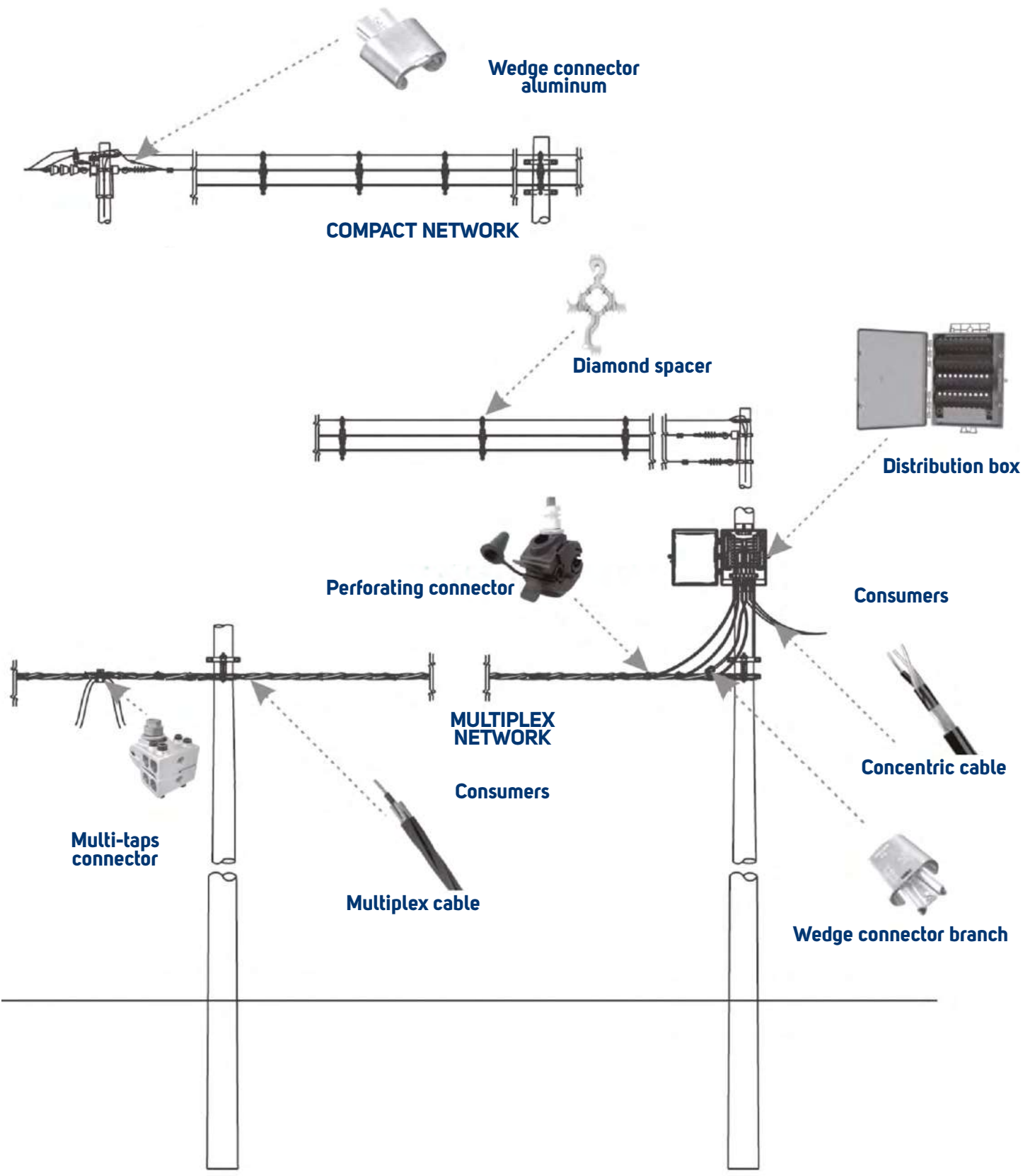
## Bare Copper Wires and Cables

NOMINAL SECTION (mm)	FORMATION N° WIRES (mm)	EXTERNAL DIAMETER (mm)	WEIGHT (kg / km)	AMPÈRES (CU CABLES) UP TO 3 IN DUTOS
1,5	1/1,38	1,38	13,3	-
1,5	7/0,50	1,59	12,5	15,5
2,5	1/1,78	1,78	22,2	-
2,5	7/0,67	2,01	22,4	21
4	1/2,24	2,24	35,4	-
4	7/0,85	2,55	36,1	28
6	1/2,80	2,80	53,3	-
6	7/1,01	3,15	51,0	36
10	1/3,55	3,55	89,1	-
10	7/1,36	4,08	90,3	50
16	1/4,50	4,50	141,3	-
16	7/1,70	5,10	143,2	68
25	1/5,60	5,60	223,1	-
25	7/2,50	6,18	227,0	89
35	7/2,06	7,50	314,8	111
50	19/1,78	8,90	428,6	134
70	19/2,12	10,60	619,5	171
95	19/2,50	12,50	859,0	207
120	37/2,03	14,21	1089,0	239
150	37/2,25	15,75	1338,0	272
185	37/2,52	17,64	1678,0	310
240	61/2,25	20,25	2210,0	364
300	61/2,52	22,68	2772,0	419
400	61/2,85	25,65	3545,0	502
500	61/3,20	28,80	4469,0	578

# APPLICATION EXAMPLE



# APPLICATION EXAMPLE



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