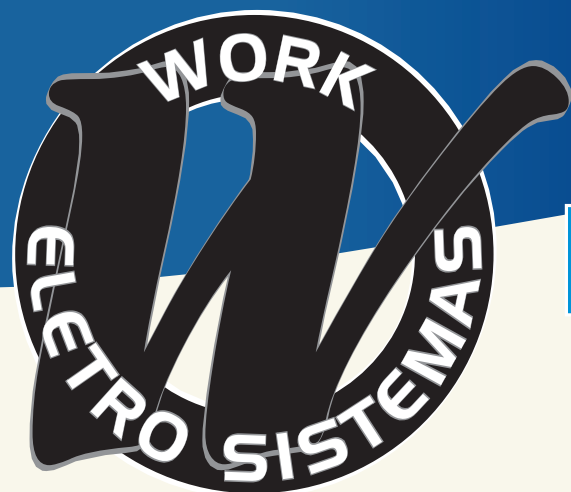




NOVO CUNHA ALUMÍNIO ALUMINUM WEDGE CUÑA ALUMINIO

NOVO Conector Cunha para Redes de Distribuição

Atende plenamente as especificações ANSI C 119.4 e NBR 5370 - 9326

Utilizados para conexões elétricas envolvendo fios e cabos nas combinações alumínio - alumínio e alumínio - cobre. Sua instalação é simples, através de alicate bomba d'água de 12 polegadas ou ferramenta **SEM** cartucho explosivo.

A conexão por duplo efeito mola (resiliência) assegura características elétricas de longa duração.

NEW Wedge Connector for Distribution Lines

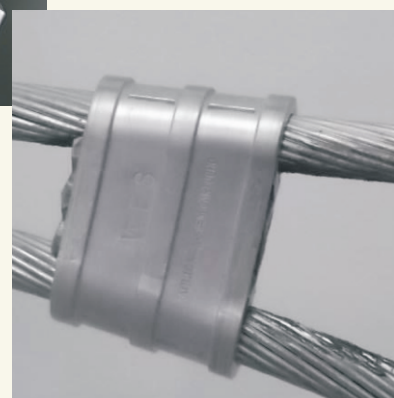
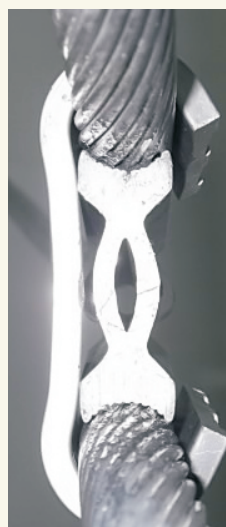
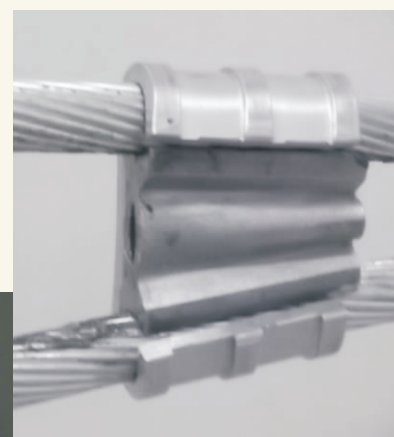
Used for electrical connections, involving wires and cables under the following combinations, aluminum to aluminum and aluminum to copper. Installing is simple by 12-inch water pump pliers or tool **WITHOUT** explosive cartridge.

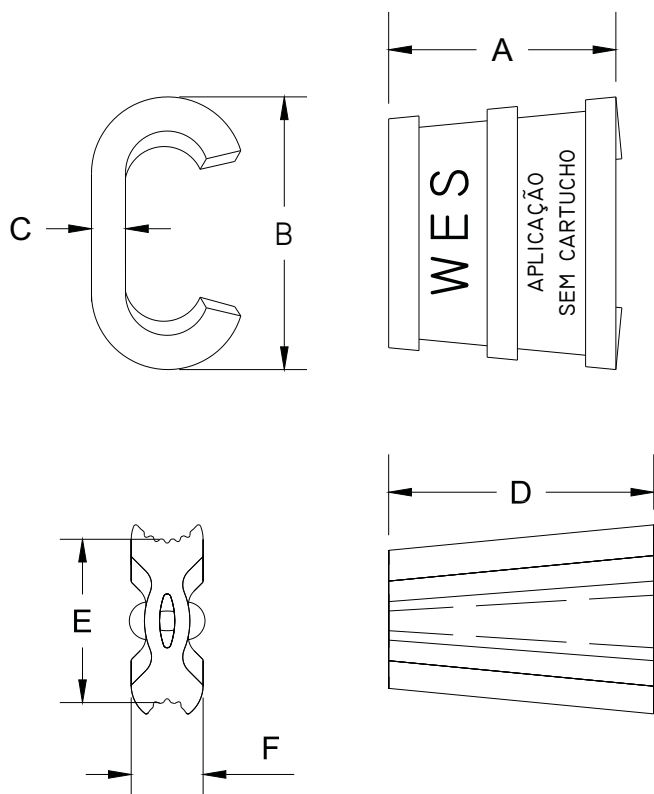
The double spring action (resilience effect) assures long term electrical characteristics.

NUEVO Conector Cuña para Redes de Distribución

Utilizados para conexiones eléctricas con hilos y cables en las combinaciones, aluminio - aluminio y aluminio - cobre. Su instalación es sencilla, con una pinza pico de loro de 12 pulgadas o herramienta **SIN** impulsor explosivo.

La conexión por doble efecto resorte (resiliencia) asegura características eléctricas de larga duración.





Característica: conexão por duplo efeito mola (aperto permanente).

Characteristic: connection with double spring action effect (lasting tightness).

Característica: conexión por doble efecto resorte (apretón permanente).

Utilização: redes aéreas de distribuição.

Use: distribution overhead lines .

Utilización: líneas aéreas de distribución.

Material: corpo e cunha em liga de alumínio.

Material: body and wedge made of aluminum alloy.

Material: cuerpo y cuña en aleación de aluminio.

Aplicação: conexões elétricas envolvendo fios e cabos nas combinações alumínio - alumínio e alumínio - cobre.

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

Aplicación: conexiones eléctricas con hilos y cables en las combinaciones aluminio - aluminio y aluminio - cobre.

Instalação: alicate bomba d'água de 12 polegadas ou ferramenta SEM cartucho explosivo.

Installation: 12-inch water pump pliers or tool **WITHOUT** explosive cartridge.

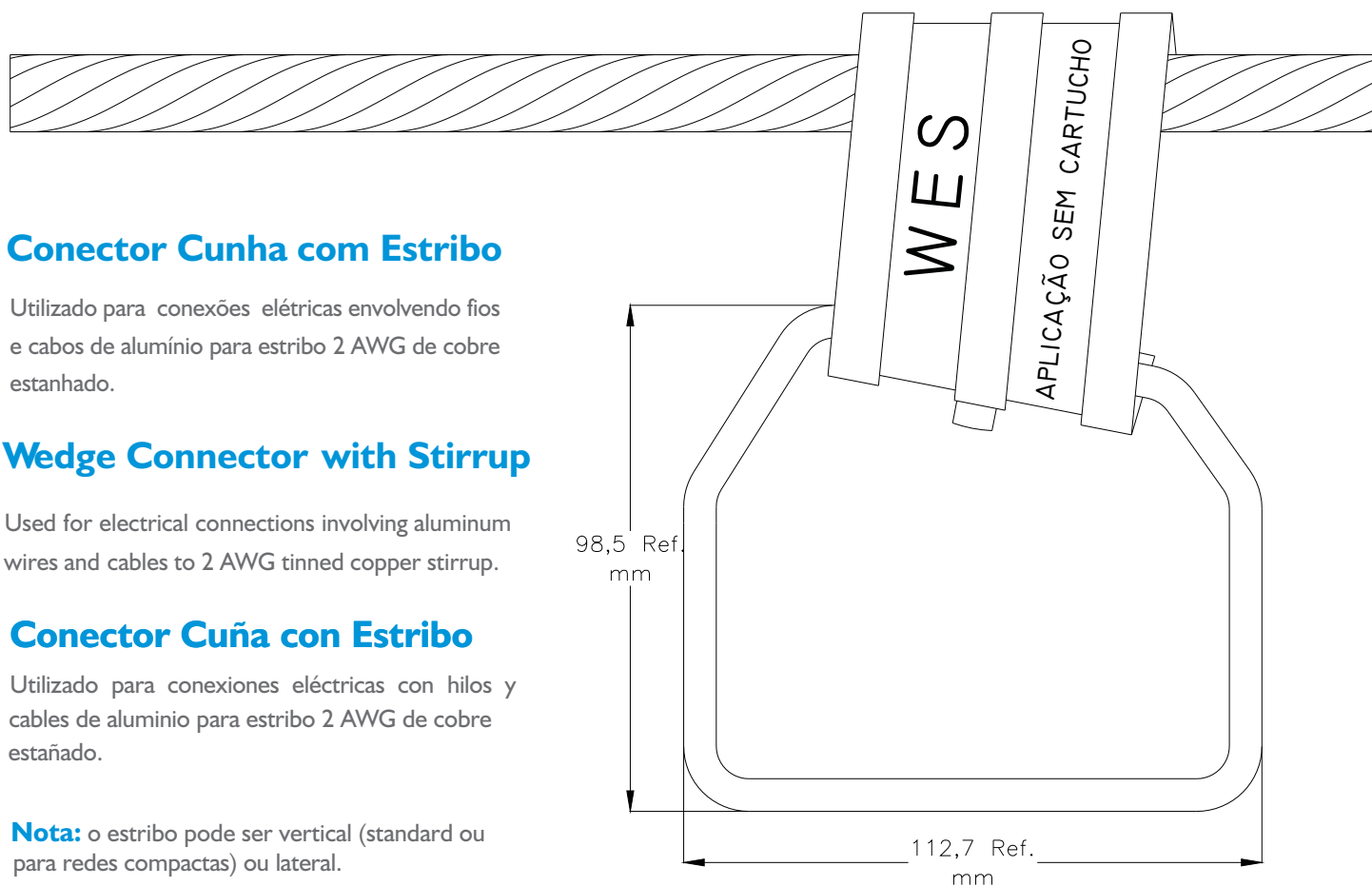
Instalación: pinza pico de loro de 12 pulgadas o herramienta **SIN** impulsor explosivo.

Benefícios: permite ligações bimetalicas, não danifica os condutores e é facilmente removível.

Benefits: enables bimetallic connections, does not damage the conductors and it is easily removable.

Benefícios: permite conexiones bimetalicas, no daña los conductores y puede ser removido fácilmente.

CÓDIGO CODE CÓDIGO	TIPO TYPE Work	CONDUTORES CONDUCTORS CONDUTORES				SOMA DOS DIÂMETROS SUM OF DIAMETERS SUMA DE LOS DIAMETROS		DIMENSÕES DIMENSIONS DIMENSIONES mm					
		PRINCIPAL / TAP		DERIVAÇÃO / TAP									
		Ø mm		Ø mm		MAX mm	MIN mm	A	B	C	D	E	F
		MAX	MIN	MAX	MIN								
990.000	NC 0	10,80	4,50	6,50	2,80	10,55	7,30	30,0	36,0	4,5	32,5	21,5	9,5
990.001	NC 1	10,80	5,00	6,50	2,80	15,10	10,50	30,0	39,6	4,5	32,5	21,5	9,5
990.002	NC 2	10,80	5,00	9,10	4,60	18,50	14,80	30,0	39,6	4,5	32,5	17,0	9,5
990.003	NC 3	15,00	7,00	6,80	4,60	19,90	16,40	40,0	61,4	6,0	45,0	36,0	14,0
990.004	NC 4	15,00	7,00	12,10	5,00	24,30	18,00	40,0	61,4	6,0	45,0	33,0	14,0
990.005	NC 5	15,00	7,00	15,00	7,00	28,80	23,60	40,0	61,4	6,0	45,0	27,0	14,0
990.006	NC 6	19,00	10,00	10,60	4,60	27,50	21,50	60,0	82,5	6,0	65,0	53,5	18,0
990.007	NC 7	19,00	10,00	14,90	8,00	31,50	26,70	60,0	82,5	6,0	65,0	49,5	18,0
990.008	NC 8	19,00	10,00	19,00	10,00	37,00	29,80	60,0	82,5	6,0	65,0	44,0	18,0
990.009	NC 9	23,00	10,00	10,60	4,60	32,00	24,75	60,0	90,0	6,0	65,0	53,5	18,0
990.010	NC 10	23,00	10,00	14,90	8,00	36,00	30,00	60,0	90,0	6,0	65,0	49,5	18,0
990.011	NC 11	23,00	10,00	23,00	10,00	43,50	36,00	60,0	90,0	6,0	65,0	44,0	18,0



Conector Cunha com Estribo

Utilizado para conexões elétricas envolvendo fios e cabos de alumínio para estribo 2 AWG de cobre estanhado.

Wedge Connector with Stirrup

Used for electrical connections involving aluminum wires and cables to 2 AWG tinned copper stirrup.

Conector Cuña con Estribo

Utilizado para conexiones eléctricas con hilos y cables de aluminio para estribo 2 AWG de cobre estañado.

Nota: o estribo pode ser vertical (standard ou para redes compactas) ou lateral.

Note: the stirrup can be vertical (standard or for compact lines) or side style.

Nota: Lo estribo puede ser vertical (standard o redes compactas) o lateral.

CÓDIGO CODE	TIPO DO CONECTOR CONNECTOR TYPE	CONDUTOR PRINCIPAL MAIN CONDUCTOR CONDUCTOR PRINCIPAL		ESTRIBO STIRRUP COBRE ESTANHADO TINNED COPPER
		AWG	mm ²	
950.701	NC 1	4 - 2 (CA) 4 - 2 (CAA)	35-50	2 AWG
950.702	NC 2	1/0 - 2/0 (CA) 1/0 (CAA)	70	2 AWG
950.703	NC 3	3/0 - 4/0 (CA) 3/0 (CAA)	120	2 AWG
950.704	NC 4	3/0 - 4/0 (CA) 3/0 - 4/0 (CAA)	120 - 150	2 AWG
950.706	NC 6	397.5 (CA) 336.4 (CAA)	185	2 AWG

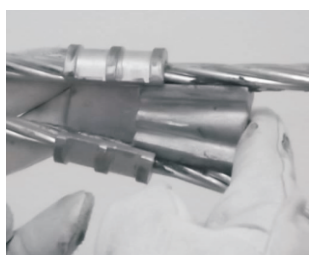
Instrução para Aplicação - Application Instruction - Instrucción para Aplicación



- 1 - Coloque o condutor derivação na parte inferior do componente "C".
- 1 - Place the tap conductor in the lower groove on the "C" component.
- 1 - Coloque el conductor derivación en la parte inferior del componente "C".



- 2 - Coloque o componente "C" no condutor principal, mantendo o conjunto firme com uma mão.
- 2 - Hook the "C" component on main conductor, while hold firmly the assembly with one hand.
- 2 - Enganche el componente "C" sobre el conductor principal sosteniendo el conjunto firmemente con una mano.



- 3 - Ajuste e empurre a "cunha" entre os condutores com os dedos, certificando-se dos lados corretos dos condutores.
- 3 - Adjust and push the "wedge" component between the conductors with the fingers, making sure the cables are facing the correct side.
- 3 - Ajuste y empuje la "cuña" entre los conductores con los dedos, asegurándose que los cables están en el lado correcto.



- 4 - Complete a conexão usando o alicate bomba d'água de 12 polegadas ou ferramenta **SEM** cartucho explosivo.
- 4 - Complete the connection using the 12 - inches pliers or tool **WITHOUT** explosive cartridge.
- 4 - Complete la conexión utilizando las pinzas pico de loro de 12 pulgadas o herramienta **SIN** impulsor explosivo.



- 5 - Certifique-se que a instalação está correta com a "cunha" totalmente inserida no "C".
- 5 - Be sure the installation is correct and the "wedge" completely inserted into "C".
- 5 - Asegúrese de que la instalación es correcta y la "cuna" totalmente insertada en lo "C".

TABELA DE SELEÇÃO-SELECTION TABLE-TABLA DE SELECCIÓN

PRINCIPAL - MAIN

DERIVAÇÃO - TAP - DERIVACIÓN

			CA (AAC)/Cu										CAA (ASCR)								CA / Cu STD								COMPACT (Al)							
			AWG										AWG								m m ²								m m ²							
			6	4	2	1/0	2/0	3/0	4/0	336,4	397,5	4	2	1/0	2/0	3/0	4/0	336,4	25	35	50	70	95	120	150	185	35	50	70	95	120	150	185			
SÓLIDO (SOLID)	AWG	8	NC 0	NC 0	NC 1	NC 1	NC 1					NC 0	NC 1	NC 1				NC 0	NC 1	NC 1	NC 1					NC 0	NC 1	NC 1								
		6	NC 0	NC 0	NC 1	NC 1	NC 1	NC 1				NC 0	NC 1	NC 1				NC 0	NC 1	NC 1	NC 1					NC 6	NC 1	NC 1	NC 1							
		4	NC 0	NC 1	NC 1	NC 1	NC 2		NC 3	NC 6	NC 6	NC 1	NC 1	NC 2		NC 3	NC 3	NC 6	NC 1	NC 1	NC 1	NC 2		NC 3		NC 6	NC 1	NC 1	NC 1		NC 3	NC 3				
		2		NC 1	NC 1	NC 2	NC 2	NC 3	NC 3	NC 6	NC 6	NC 1	NC 1	NC 2		NC 3	NC 4	NC 6	NC 1	NC 1	NC 2	NC 2	NC 3	NC 4	NC 6	NC 6	NC 1	NC 1	NC 2	NC 3	NC 3	NC 4	NC 6			
		1/0			NC 2	NC 2	NC 4	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6	NC 6	NC 2	NC 2	NC 2	NC 4	NC 4	NC 4	NC 6			
	mm ²	10	NC 0	NC 0	NC 1	NC 1	NC 1					NC 0	NC 1	NC 1				NC 0	NC 1	NC 1	NC 1					NC 1	NC 1	NC 1								
16		NC 0	NC 0	NC 1	NC 1	NC 1					NC 1	NC 1	NC 1				NC 1	NC 1	NC 1	NC 1					NC 1	NC 1	NC 1									
CA (AAC)/Cu	AWG	6	NC 0	NC 1	NC 1	NC 1	NC 2	NC 3	NC 3	NC 6	NC 6	NC 1	NC 1	NC 1		NC 3	NC 6	NC 1	NC 1	NC 1	NC 2		NC 3		NC 6	NC 1	NC 1	NC 1			NC 3					
		4		NC 1	NC 1	NC 2	NC 2	NC 3	NC 3	NC 6	NC 6	NC 1	NC 1	NC 2		NC 3	NC 4	NC 6	NC 1	NC 1	NC 1	NC 2	NC 3	NC 4	NC 6	NC 6	NC 1	NC 1	NC 2		NC 3	NC 4	NC 6			
		2			NC 2	NC 2	NC 2	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		NC 2	NC 2	NC 2	NC 4	NC 4	NC 6	NC 6	NC 1	NC 2	NC 2	NC 4	NC 4	NC 4	NC 6			
		1/0				NC 4	NC 4	NC 4	NC 4	NC 6	NC 7			NC 4	NC 4	NC 4	NC 4	NC 7			NC 4	NC 4	NC 4	NC 4	NC 6	NC 7			NC 4	NC 4	NC 4	NC 4				
		2/0				NC 4	NC 4	NC 4	NC 4	NC 7	NC 7			NC 4	NC 4	NC 4	NC 5	NC 7			NC 4	NC 4	NC 4	NC 5	NC 7	NC 7		NC 4	NC 4	NC 4	NC 4	NC 5	NC 7			
		3/0						NC 5	NC 5	NC 7	NC 7					NC 5	NC 5	NC 7						NC 5	NC 7	NC 7					NC 5	NC 5	NC 7			
		4/0						NC 5	NC 5	NC 7	NC 8				NC 5	NC 5	NC 5	NC 7					NC 5	NC 5	NC 7	NC 7				NC 5	NC 5	NC 5	NC 7			
		336,4						NC 5	NC 7	NC 8	NC 8					NC 7	NC 8	NC 8						NC 8	NC 8	NC 8						NC 8	NC 8			
		397,5							NC 8	NC 8	NC 8						NC 8	NC 8	NC 8					NC 8	NC 8	NC 8	NC 8						NC 8	NC 8		
CAA (ASCR)	AWG	4	NC 0	NC 1	NC 1	NC 2	NC 2	NC 3	NC 3	NC 6	NC 6	NC 1	NC 1	NC 2	NC 3	NC 3	NC 4	NC 6	NC 1	NC 1	NC 2	NC 2	NC 3	NC 4	NC 6	NC 6	NC 1	NC 1	NC 2	NC 3	NC 3	NC 4	NC 6			
		2		NC 1	NC 2	NC 2	NC 4	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6	NC 6	NC 2	NC 2	NC 2	NC 4	NC 4	NC 4	NC 6			
		1/0				NC 4	NC 4	NC 4	NC 4	NC 7	NC 7			NC 4	NC 4	NC 4	NC 5	NC 7			NC 4	NC 4	NC 4	NC 5		NC 7		NC 4	NC 4	NC 4	NC 4					
		2/0					NC 4	NC 4	NC 5	NC 7	NC 7			NC 4	NC 4	NC 4	NC 5	NC 7			NC 4	NC 4	NC 4	NC 5	NC 7	NC 7		NC 4	NC 4	NC 4	NC 4	NC 5	NC 7			
		3/0						NC 5	NC 5	NC 7	NC 7			NC 5	NC 5	NC 5	NC 5	NC 7					NC 5	NC 5	NC 7	NC 7					NC 5	NC 5	NC 7			
		4/0						NC 5	NC 5	NC 8	NC 8				NC 5	NC 5	NC 5	NC 8					NC 5	NC 5		NC 8	NC 8				NC 5	NC 5	NC 5			
		336,4							NC 8	NC 8	NC 8						NC 8	NC 8							NC 8	NC 8	NC 8						NC 8	NC 8		
																										NC 8	NC 8	NC 8								
CA / Cu STD	mm ²	25		NC 1	NC 1	NC 2	NC 2	NC 3	NC 3	NC 6	NC 6	NC 1	NC 1	NC 2	NC 3	NC 3	NC 4	NC 6	NC 1	NC 1	NC 2	NC 2	NC 3	NC 4	NC 6	NC 6	NC 1	NC 1	NC 2		NC 3	NC 4	NC 6			
		35				NC 2	NC 2	NC 2	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		NC 2	NC 2	NC 2	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		
		50				NC 4	NC 4	NC 4	NC 4	NC 6	NC 7			NC 4	NC 4	NC 4	NC 4	NC 6				NC 4	NC 4	NC 4	NC 4	NC 6	NC 6			NC 4	NC 4	NC 4	NC 4	NC 6		
		70				NC 4	NC 4	NC 4	NC 4	NC 7	NC 7			NC 4	NC 4	NC 4	NC 5	NC 7				NC 4	NC 4	NC 4	NC 5	NC 7	NC 7		NC 4	NC 4	NC 4	NC 4	NC 5	NC 7		
		95							NC 5	NC 7	NC 7					NC 5	NC 5	NC 7						NC 5	NC 5	NC 7	NC 7					NC 5	NC 5	NC 7		
		120						NC 5	NC 5	NC 8	NC 8			NC 5	NC 5	NC 5		NC 8					NC 5	NC 5	NC 7	NC 7	NC 7				NC 5	NC 5	NC 5	NC 8		
		150								NC 8	NC 8							NC 8	NC 8							NC 8	NC 8	NC 8						NC 8		
		185							NC 8	NC 8	NC 8							NC 8	NC 8							NC 8	NC 8	NC 8						NC 8		
COMPACT (Al)	mm ²	35				NC 2	NC 2	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6				NC 2	NC 2	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		
		50				NC 2	NC 2	NC 4	NC 4	NC 4	NC 6	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		NC 2	NC 2	NC 4	NC 4	NC 4	NC 6	NC 6	NC 2	NC 2	NC 2	NC 4	NC 4	NC 4	NC 6		
		70					NC 4	NC 4	NC 4	NC 4		NC 7			NC 4	NC 4	NC 4	NC 4	NC 7			NC 4	NC 4	NC 4	NC 4		NC 7			NC 4	NC 4	NC 4	NC 4			
		95						NC 4	NC 4	NC 5	NC 7	NC 7			NC 4	NC 4	NC 4	NC 5	NC 7				NC 4	NC 4	NC 4	NC 5	NC 7	NC 7		NC 4	NC 4	NC 4	NC 5	NC 5	NC 7	
		120							NC 5	NC 5	NC 7	NC 7					NC 5	NC 5	NC 7					NC 5	NC 5	NC 7	NC 7					NC 5	NC 5	NC 5	NC 7	
		150								NC 5	NC 5	NC 7	NC 8				NC 5	NC 5	NC 5	NC 8					NC 5	NC 5	NC 5	NC 7	NC 8				NC 5	NC 5	NC 5	NC 7
		185									NC 8	NC 8							NC 8							NC 8	NC 8	NC 8							NC 8	

Conectores ensaiados pelo “Lactec” conforme relatório DVEE-063-4/2011

Connectors tested according “Lactec” report DVEE-063-4/2011

Conectores probados por “Lactec” según informe DVEE-063-4/2011

Ensaio de ciclos térmicos com curto circuito
conforme a NBR 5370-9326 / ANSI C119.4

Thermal cycling test with short circuit
according to NBR 5370-9326 / ANSI C119.4

Prueba de ciclos térmicos con corto circuito
según NBR 5370-9326 / ANSI C119.4



Conector utilizado no teste

Connector used in the test

Conector utilizado en el test



Temperaturas no final dos períodos de aquecimento

Temperatures in the end of heating periods

Temperaturas en final de los períodos de calentamiento

Resistência elétrica corrigida para temperatura de 20 °C

Electrical resistance adjusted for 20 °C temperature

Resistencia eléctrica corregida a una temperatura de 20 °C

