

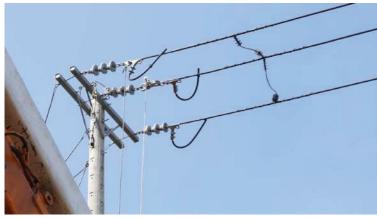
Overhead Cable Support Safety Device



CSR

APPLICATION

Downed power lines are one of the leading causes of electrical related accidents. Downed lines are common after storms and high winds, which can carry enough force to snap cables out of power poles, leading to power outages and potentially endangering people nearby the downed wires. The Chardon Cable Support Rope is designed to hold overhead power distribution lines from hanging low in the event of line breakage. Chardon also offers the UCSR, an alternative design carrying better technical properties.

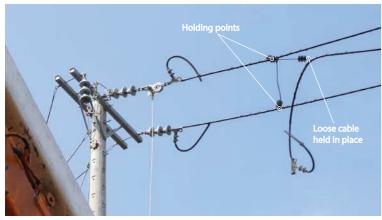


Three-phase power lines with Cable Support Safety Device installed.

INSTALLATION

The installation of the cable support safety device is simple and requires no special tools or training.

The wire grip is inserted into the wire-holding component, and the wire grip is then looped around the power line. This process is repeated for each power line to ensure a secure fit.



Demonstration of power line breakage and the device's operation.

HOW IT WORKS

If a power line breaks or falls, the cable support safety device activates to prevent the line from falling to the ground. The wire grip holds the wire-holding components and acts as a safety net, preventing the power line from sliding or falling.

The device keeps the power line suspended in the air, reducing the risk of further damage or injury to nearby pedestrians and animals.

COMPONENTS OF THE CHARDON CABLE SUPPORT SAFETY DEVICE

/ Power Cable

Three-phase power cables where the wire grip is attached to.

/ Wire Grip

Pre-molded weather and wear resistant stainless steel wire.

/ Wire-Holding Component

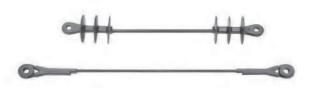
Made of polypropylene with good weather resistance and flame retardance.

Individual Components

/ Wire Grip



/ Wire-Holding Component



PRODUCTION TESTS

Tests conducted in accordance with Standards JIS C 3005, JIS K 6911, JEC 0102.

- Voltage Withstand 65 kV (Wet, 1 min); 75 kV (Dry, 1 min)
- Lightining Impulse Withstand (BIL) 174 kV
- Failure Load 3.6 kN
- Size/Distance Between Rope Eyes 700&1000





CABLE SUPPORT ROPE TYPES & PERFORMANCE PARAMETERES

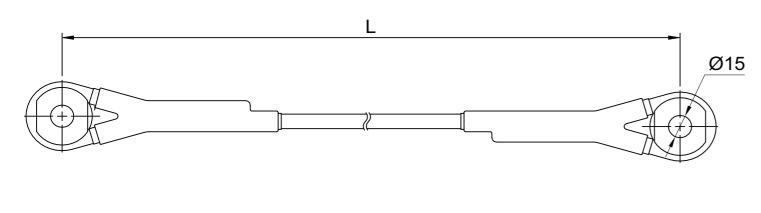
Performance Parameters	UCSR Series	CSR Series	
Low Frequency Dry Flashover Voltage	130kV	75kV	
Low Frequency Wet Flashover Voltage	100kV	65kV	
Front-of-wave Impulse Sparover Voltage	190kV	174kV	
Radio Interference Voltage	20kV Max.RIV@1000kHz: 10uV N/A		
Salt Spray Accelerated Aging Test	Compliant with IEEE Std C62.11 N/A salt spray accelerated aging test, MCOV 15.3kV		
Light Exposure and Electrical Stress Accelerated Aging Test	Compliant with IEEE Std C62.11After 2000 hours of UVlight exposure and electricalexposure, the product ofstress accelerated aging test,retains mechanical andMCOV 15.3 kVelectrical integrity		
Insulation Test	After the salt water is boiled for 8H, the resistance at both ends reach 2000M Ω under 1000V		
Cable Tensile Strength	600kgf	367 kgf	

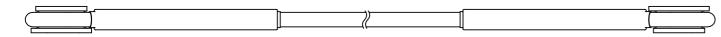
Applicable Environment Conditions:

- / Temperature: 20-40 °C
- / Altitude: no higher than 1000 meters

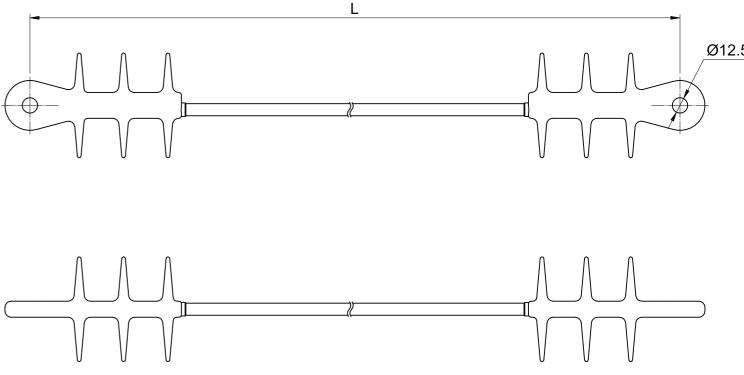
ORDERING AND DIMENSIONAL INFORMATION

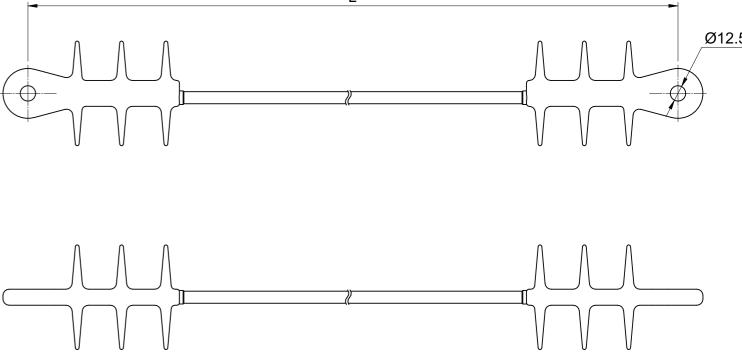
CSR Series





Chardon Part Number	"L" (mm)
CSR-700	715
CSR-1000	1015









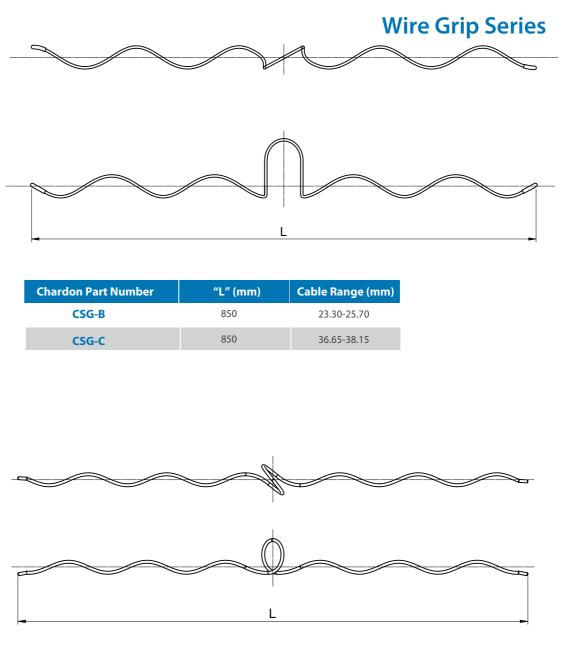


ber	"L" (mm)	
	520	
	1120	

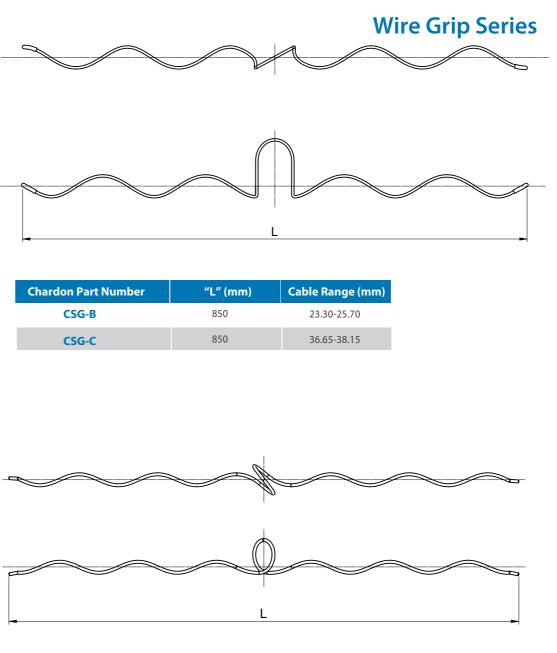
WIRE GRIP APPLICATION

To prevent downed power lines from touching the ground and endangering nearby structures and pedestrians, the grip component of the supporting rope must have sufficient strength to support the weight of the power lines when it breaks off. With its durable coating, Chardon's Wire Grip is resistant to adverse weather and has been tested to withstand up to 2000 hours of sunshine without negative effects to its pull-off strength.

ORDERING AND DIMENSIONAL INFORMATION OF WIRE GRIP



Chardon Part Number	"L" (mm)	Cable Rai
CSG-B	850	23.30-
CSG-C	850	36.65-



Chardon Part Number	"L" (mm)	Cable Ra
U-CSG B	820	14.5-1
U-CSG C	1200	25.5-2

PERFORMANCE PARAMETERS

Performance Parameters	CSG-B	CSG-C	U-CSG B	U-CSG C
L(mm)	850	850	820	1200
P(mm)	109	173	132	132
Material	GS	GS	SUS	SUS
Coating	Nylon	Nylon	Nylon	Nylon
Core diameter (mm)	4.2	4.2	5	5
Cable Range (mm)	23.30-25.70	36.65-38.15	14.50-16.50	25.50-27.50
Vertical Load Test(N)	1735	1950	1305	1800
Horizontal Load Test(N)-10mm slide	785	785	985	2942

PRODUCTION TESTS

Tests conducted in accordance with Standards JIS C 3005, JIS K 6911, JEC 0102.

- Vertical Load Tests
- Horizontal Load Tests
- Size Measurement Inspection

nge (mm)

6.5



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