

# POWER CONNECT®



## Customized products CGP INNOVATION

The **POWER CONNECT®** range springs from the know-how and technical expertise of our engineers. Based on the **SILICOUL®**, **VARPREN®** and **PLASTHERM®** power cables, our technical teams make up leads fitted with crimped lugs and delivered at the length specified by our customers.

## High performance

Cables are crimped and cut in our workshops to ensure optimum mechanical and electrical resistance in line with our customers' specifications. We thus offer a full, tested (voltage drop, tensile strength, etc.), ready-to-use solution.

## Appropriate connectors

Our engineers select the most appropriate power lugs for your application and the use environment of your product.

**Shape:** Tubular, elbowed, angled, other designs possible

**Material:** Metallic (tinned electrolytic copper, aluminium, etc.)

**Crimping:** Manual or hydraulic press

## High performance characteristics

(depends of cable's range used  
see the table for further information)

### Thermal

Continuous operating temperature:

**Until -60°C to +180°C**

Good resistance to thermal shock

### Electrical

Operating voltage:

Low and Medium voltage

### Fire-smoke

Flame and fire retardant version

### Mechanical

Resistance to abrasion

Cut-through resistance

### UV Resistance

Halogen Free

## Applications

High performance solution for high current or voltage area in aggressive environments (temperature, mechanical, chemical)

### VARPREN® 155



### SILICOUL®



### PLASTHERM®



High Temperature	✓	✓	
Halogen free	✓	✓	✓
Fire	✓	✓	✓
Outdoor use	✓		✓
Mechanical	✓		✓

CHARACTERISTICS	PLASTHERM® CONNECT	SILICOUL® CONNECT	VARPREN® 155 CONNECT
Operating temperature	<b>-20°C to +80°C</b>	<b>-60°C to +180°C</b> Good thermal shock resistance	<b>-50°C to +155°C</b>
Operating voltage	Low and medium voltage (contact us)	1,1 kV to 13,8 kV	1,000 V
Mechanical behaviour	Excellent abrasion resistance	Good mechanical strength	Excellent tearing strength
Outside use	Optional	Good UV resistance	-
Halogen-free	Optional	Yes	Yes
Fire performance	Optional: Flame retardant Fire retardant	Flame retardant	Flame retardant Fire retardant Low smoke emission

CGP SAS  
62 route du Coin  
42400 Saint-Chamond  
FRANCE  
Phone: **+33 (0)4 77 31 02 54**  
www.omerin.com



[www.omerin.com](http://www.omerin.com)

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company CGP SAS shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.

For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.

© Registered trademark of the CGP SAS. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of CGP SAS.