



# 400 Hz

## AIRCRAFT GROUND POWER CABLES

### HIFLEX® AGP400



**CGP WORKS IN CLOSE LIAISON  
WITH THE MAJOR OEM  
OF AEROSPACE AND DEFENCE INDUSTRIES**



**omerin**  
LES CABLES DE L'EXTREME

*CGP SAS, Cables for Global Performance belongs to the OMERIN group*

*AT CGP WE USE OUR KNOW-HOW  
AND TECHNOLOGY TO DEVELOP INCREASINGLY  
HIGH-PERFORMANCE PRODUCTS*



### Technical expertise

Since 1947, CGP has acquired a full control of electrical cable manufacturing processes.

Our Research & Development Department is made up of experienced engineers specialising in metallurgy, plastics, electromagnetic compatibility, micromechanics, data transmission, etc.

Our laboratory is equipped to test and validate the physical, mechanical, chemical and electrical behaviours and fire resistance of the cables we produce.

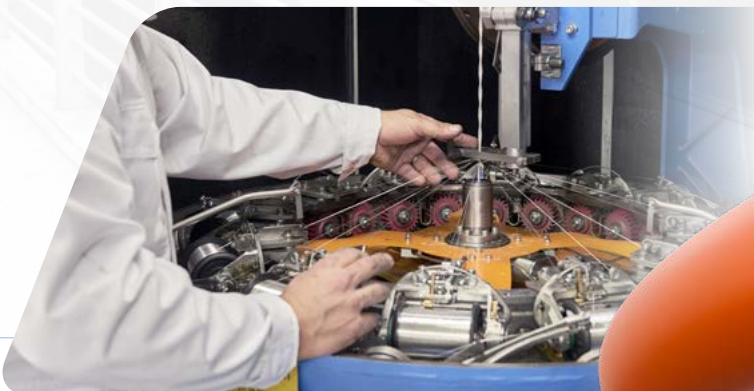


### Men and Women at your service

The technical expertise of our teams is at your disposal, providing responses and solutions to all your requirements.

Our **Methods, Quality and R&D Departments work permanently** together with the aim of constantly improving our products and processes.

All our staff subscribe to this approach with their involvement and constant self-checking at all stages of production.



# PRODUCT LIST

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# 400 Hz AIRCRAFT GROUND POWER CABLES





# **REELING APPLICATIONS**

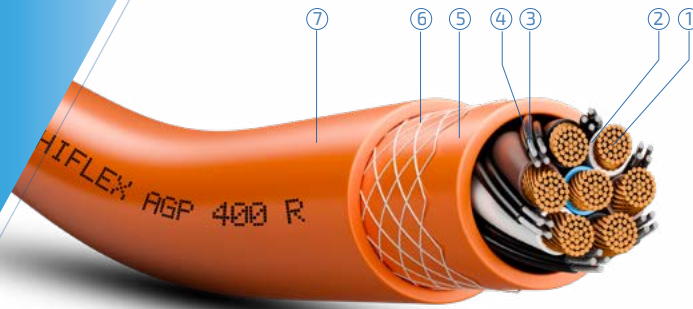
# HIFLEX® AGP 400 R

**• Conductor**

1. Class 6 red copper according to IEC 60228
2. Thermoplastic

**• Control core**

3. Class 6 tin plated copper according to IEC 60228
4. Thermoplastic  
*Helicoïdal stranding of 3 or 4 conductors*
5. Abrasion resistant polyurethan
6. Anti twisting braid
7. Abrasion resistant polyurethan



## Applications

400 Hz extra-flexible electrical cable for reeling applications : connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 R -  
7x[*cross-section*]mm<sup>2</sup> + 6x[nb control core]  
x1 mm<sup>2</sup> - 0.6/1kV - [batch number]

## Colour code

Phase Conductor:  
Blue / White (x2) / Brown (x2) / Black (x2)  
Control core: Black numbered  
Internal Sheath: Orange  
External Sheath: Orange  
Other: please consult us.

## General characteristics

**• Thermal**

Maximal use temperature in static use: **-40°C to +90°C**  
Maximal use temperature in dynamic use: **-20°C to +90°C**

**• Electrical**

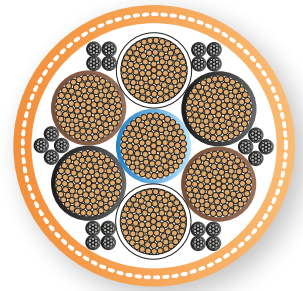
Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: 4000 V  
Maximal current rating : 25mm<sup>2</sup> : 210A / 35mm<sup>2</sup> : 270A  
(*Tambient* : 30°C / *Tconductor* : 90°C)

**• Mechanical strength**

Minimal bending radius : 4 x Ø in static use  
6 x Ø in dynamic use  
Resistance to torsion and flexion: ★★★★★☆  
Resistance to abrasion and tear: ★★★★★

**• Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to ozone, water, UV radiations and mineral oils  
Halogen free materials according to IEC 60754  
No corrosive and low toxicity gases.



7x25 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>  
7x35 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>

Also available in  
7x25 mm<sup>2</sup> + 6x3x1 mm<sup>2</sup>  
7x35 mm<sup>2</sup> + 6x3x1 mm<sup>2</sup>

*General assembling: Helicoïdal stranding  
Assembling protection by non woven polyester tape (covering: 25% min).*

## AGP 400 R

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
7x25 mm <sup>2</sup> + 6x3x1 mm <sup>2</sup>	37.5	40.5	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 25 mm <sup>2</sup> : 0.84	2.7
7x25 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	37.5	40.5	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 25 mm <sup>2</sup> : 0.84	2.7
7x35 mm <sup>2</sup> + 6x3x1 mm <sup>2</sup>	39.5	42.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.60	3.3
7x35 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	39.5	42.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.60	3.3

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

**For this product, please contact:**

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



**www.omerin.com**

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# HIFLEX® AGP 400 R 3

**• Phase conductor**

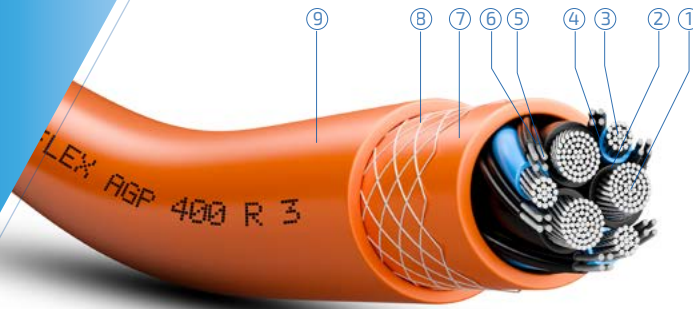
1. Class 6 tin plated copper according to IEC 60228
2. Thermoplastic

**• Neutral conductor**

3. Extra flexible tin plated copper
4. Thermoplastic

**• Control core**

5. Class 6 tin plated copper according to IEC 60228
6. Thermoplastic  
*Helicoidal stranding of 4 conductors*
7. Abrasion resistant polyurethan
8. Anti twisting braid
9. Abrasion resistant polyurethan



## Applications

400 Hz extra-flexible electrical cable for reeling applications : connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 R 3 -  
3x[*cross-section*]mm<sup>2</sup>  
+ 3x[*cross-section*]mm<sup>2</sup>  
+ 6X4X1 mm<sup>2</sup> - 0.6/1kV - [batch number]

## Colour code

Phase Conductor: Black numbered  
Neutral Conductor: Blue  
Control core: Black numbered  
Internal Sheath: Orange  
External Sheath: Orange  
Other: please consult us.

## General characteristics

**• Thermal**

Maximal use temperature in static use: **-40°C to +90°C**  
Maximal use temperature in dynamic use: **-20°C to +90°C**

**• Electrical**

Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: 4000 V  
Maximal current rating: 50mm<sup>2</sup> : 210 A / 70mm<sup>2</sup> : 270A  
(*Tambient*: 30°C / *Tconductor*: 90°C)

**• Mechanical strength**

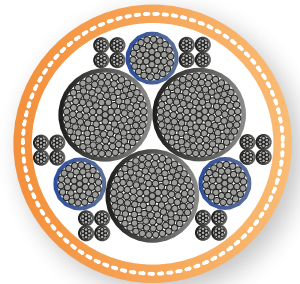
Minimal bending radius: 4 x Ø in static use  
6 x Ø in dynamic use

Resistance to torsion and flexion: ★★★★★☆

Resistance to abrasion and tear: ★★★★★★

**• Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to ozone, water, UV radiations and mineral oils  
Halogen free materials according to IEC 60754  
No corrosive and low toxicity gases.



3x50 mm<sup>2</sup> + 3x10 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>  
3x70 mm<sup>2</sup> + 3x12 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>

*General assembling: Helicoidal stranding  
Assembling protection by non woven polyester tape (covering: 25% min).*

### AGP 400 R 3

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
3x50 mm <sup>2</sup> + 3x10 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	34.5	37.5	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 10 mm <sup>2</sup> : 2.05 50 mm <sup>2</sup> : 0.41	2.8
3x70 mm <sup>2</sup> + 3x12 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	39.5	42.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 12 mm <sup>2</sup> : 1.65 70 mm <sup>2</sup> : 0.277	3.4

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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## 400 Hz AIRCRAFT GROUND POWER CABLES

REELING APPLICATIONS

# HIFLEX® AGP 400 R 6

### • Phase conductor

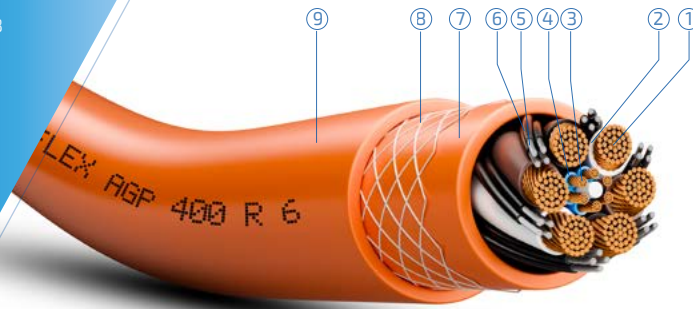
1. Class 6 red copper according to IEC 60228
2. Thermoplastic

### • Neutral split conductor

3. Class 6 red copper according to IEC 60228
4. Thermoplastic

### • Control core

5. Class 6 tin plated copper according to IEC 60228
6. Thermoplastic  
*Helicoidal stranding of 4 conductors*
7. Abrasion resistant polyurethan
8. Anti twisting braid
9. Abrasion resistant polyurethan



## Applications

400 Hz extra-flexible electrical cable for reeling applications: connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 R 6 – 6x35 mm<sup>2</sup> + 6x6 mm<sup>2</sup> + 6X4X1 mm<sup>2</sup> – 0.6/1kV [batch number]

## Colour code

Phase Conductor: White (x2) / Brown (x2) / Black (x2)  
Neutral Conductor: Blue  
Control core: Black numbered  
Internal Sheath: Orange  
External Sheath: Orange  
Other: please consult us.

## General characteristics

### • Thermal

Maximal use temperature in static use: **-40°C to +90°C**  
Maximal use temperature in dynamic use: **-20°C to +90°C**

### • Electrical

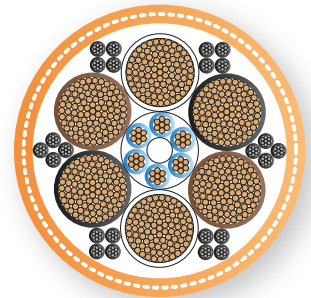
Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: 4000 V  
Maximal current rating : 270A  
(*Tambient : 30°C / Tconductor : 90°C*)

### • Mechanical strength

Minimal bending radius : 3 x Ø in static use  
6 x Ø in dynamic use  
Resistance to torsion and flexion: ★★★★★  
Resistance to abrasion and tear: ★★★★★

### • Chemical

All materials comply with the RoHs and Reach european directives  
Good resistance to ozone, water, UV radiations and mineral oils  
Halogen free materials according to IEC 60754  
No corrosive and low toxicity gases.



6x35 mm<sup>2</sup> + 6x6 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>

*General assembling: Helicoidal stranding  
Assembling protection by non woven polyester tape (covering: 25% min).*

## AGP 400 R 6

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
6x35 mm <sup>2</sup> + 6x6 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	39.5	42.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 6 mm <sup>2</sup> : 3.6 35 mm <sup>2</sup> : 0.6	3.4

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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# MOBILE APPLICATIONS

# HIFLEX® AGP 400 M

Single core



**• Conductor**

1. Class 6 red copper according to IEC 60228

**• Control core**

2. Class 6 tin plated copper according to IEC 60228

3. Thermoplastic

4. Abrasion resistant polyurethan

## Applications

400 Hz extra-flexible electrical cable for mobile applications : connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 M - [cross-section]mm<sup>2</sup> - 0.6/1kV - [batch number]

## Colour code

Conductor: Yellow, Green, Red, Black  
Inner Sheath : Orange (abrasion indicator)  
External Sheath : Black  
Other: please consult us.

## General characteristics

**• Thermal**

Maximal use temperature in static use: **-40°C to +90°C**

Maximal use temperature in dynamic use: **-20°C to +90°C**

**• Electrical**

Operating voltage: 0.6 / 1 kV

Nominal voltage: 115 / 230 V

Test voltage: 4000 V

**• Mechanical strength**

Minimal bending radius : 4 x Ø in static use

6 x Ø in dynamic use

Resistance to torsion and flexion: ★★★★★☆

Resistance to abrasion and tear: ★★★★★

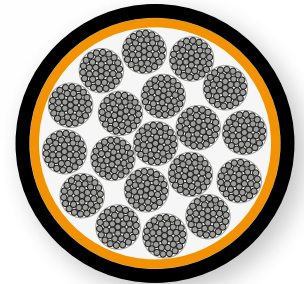
**• Chemical**

All materials comply with the RoHs and Reach european directives

Good resistance to ozone, water, UV radiations and mineral oils

Halogen free materials according to IEC 60754

No corrosive and low toxicity gases.



70 mm<sup>2</sup>

*General assembling: Helicoïdal stranding  
Assembling protection by non woven polyester tape (covering : 25% min).*

### AGP 400 M

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Maximal current rating (A)	Approx. Cable weight ( kg / m)
	Min	Max				
70 mm <sup>2</sup>	15.6	17.2	70 mm <sup>2</sup> : 0.46	70 mm <sup>2</sup> : 0.277	265	0.8

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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# HIFLEX® AGP 400 M

Multicore

**• Conductor**

1. Class 6 red copper according to IEC 60228
2. Thermoplastic

**• Control core**

3. Class 6 tin plated copper according to IEC 60228
4. Thermoplastic  
*Helicoidal stranding of 3 or 4 conductors*

5. Abrasion resistant polyurethan



## Applications

400 Hz extra-flexible electrical cable for mobile applications : connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 M -  
7x[*cross-section*]mm<sup>2</sup> + 6x[nb control core]x1 mm<sup>2</sup> - 0.6/1kV - [batch number]

## Colour code

Conductor:  
Blue / white (x2) / brown (x2) / black (x2)  
Control core: Black numbered  
External Sheath: Orange  
Other: please consult us.

## General characteristics

**• Thermal**

Maximal use temperature in static use: **-40°C to +90°C**  
Maximal use temperature in dynamic use: **-20°C to +90°C**

**• Electrical**

Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: 4000 V  
Maximal current rating : 25mm<sup>2</sup> : 210A / 35mm<sup>2</sup> : 270A  
(*Tambient*: 30°C / *Tconductor*: 90°C)

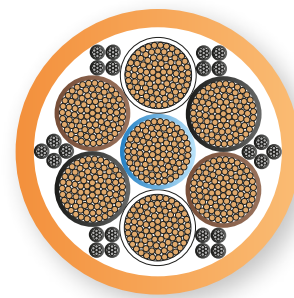
**• Mechanical strength**

Minimal bending radius : 4 x Ø in static use  
6 x Ø in dynamic use

Resistance to torsion and flexion: ★★★★★☆  
Resistance to abrasion and tear: ★★★★★

**• Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to ozone, water, UV radiations and mineral oils  
Halogen free materials according to IEC 60754  
No corrosive and low toxicity gases.



7x25 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>  
7x35 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>

Also available in  
7x25 mm<sup>2</sup> + 6x3x1 mm<sup>2</sup>  
7x35 mm<sup>2</sup> + 6x3x1 mm<sup>2</sup>

*General assembling: Helicoidal stranding  
Assembling protection by non woven polyester tape (covering : 25% min).*

## AGP 400 M

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
7x25 mm <sup>2</sup> + 6x3x1 mm <sup>2</sup>	35.5	38.5	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 25 mm <sup>2</sup> : 0.84	2.5
7x25 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	35.5	38.5	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 25 mm <sup>2</sup> : 0.84	2.5
7x35 mm <sup>2</sup> + 6x3x1 mm <sup>2</sup>	37.5	40.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.60	3.2
7x35 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	37.5	40.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.60	3.2

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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# HIFLEX® AGP 400 M i

• **Conductor**

1. Class 6 tin plated copper according to IEC 60228

• **Control core**

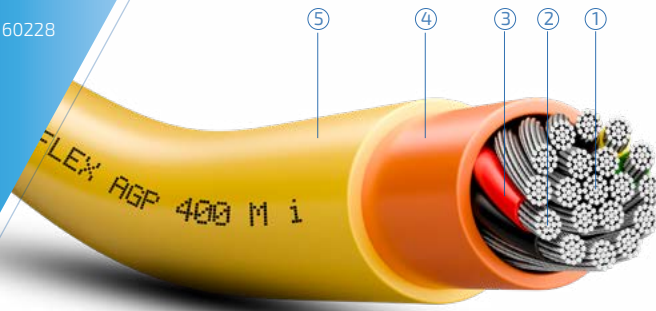
2. Class 6 tin plated copper according to IEC 60228

3. Thermoplastic

Helicoidal stranding of 2 conductors

4. Abrasion resistant polyurethan  
(abrasion indicator)

5. Abrasion resistant polyurethan



## Applications

400 Hz extra-flexible electrical cable for mobile applications : connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 M i

1x[*cross-section*]mm<sup>2</sup> + 4x1mm<sup>2</sup> - 0.6/1kV - [batch number]

## Colour code

Control core: Yellow, green, red, black

Internal Sheath: Orange (abrasion indicator)

External Sheath: Yellow

Other: please consult us.

## General characteristics

• **Thermal**

Maximal use temperature in static use: **-40°C to +90°C**

Maximal use temperature in dynamic use: **-20°C to +90°C**

• **Electrical**

Operating voltage: 0.6 / 1 kV

Nominal voltage: 115 / 230 V

Test voltage: 4000 V

• **Mechanical strength**

Minimal bending radius : 4 x Ø in static use

6 x Ø in dynamic use

Resistance to torsion and flexion: ★★★★★☆

Resistance to abrasion and tear: ★★★★★

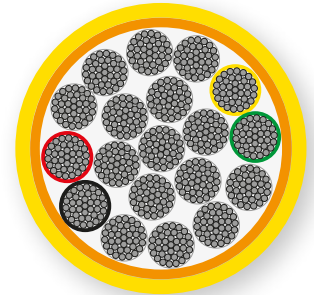
• **Chemical**

All materials comply with the RoHs and Reach european directives

Good resistance to ozone, water, UV radiations and mineral oils

Halogen free materials according to IEC 60754

No corrosive and low toxicity gases.



1x35 mm<sup>2</sup> + 4x1 mm<sup>2</sup>  
1x50 mm<sup>2</sup> + 4x1 mm<sup>2</sup>

Also available in  
1x70 mm<sup>2</sup> + 4x1 mm<sup>2</sup>  
1x95 mm<sup>2</sup> + 4x1 mm<sup>2</sup>  
1x120 mm<sup>2</sup> + 4x1 mm<sup>2</sup>

General assembling: Helicoidal stranding  
Assembling protection by non woven polyester tape (covering : 25% min).

## AGP 400 M i

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Maximal current rating (A)	Approx. Cable weight (kg / m)
	Min	Max				
1x35 mm <sup>2</sup> + 4x1 mm <sup>2</sup>	12	16	35 mm <sup>2</sup> : 0.85	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.554	154	0.5
1x50 mm <sup>2</sup> + 4x1 mm <sup>2</sup>	15	19	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 50 mm <sup>2</sup> : 0.393	200	0.7
1x70 mm <sup>2</sup> + 4x1 mm <sup>2</sup>	17.5	19.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 70 mm <sup>2</sup> : 0.277	265	0.9
1x95 mm <sup>2</sup> + 4x1 mm <sup>2</sup>	18	22	95 mm <sup>2</sup> : 0.37	1 mm <sup>2</sup> : 20.5 95 mm <sup>2</sup> : 0.210	290	1.1
1x120 mm <sup>2</sup> + 4x1 mm <sup>2</sup>	23	27	120 mm <sup>2</sup> : 0.31	1 mm <sup>2</sup> : 20.5 120 mm <sup>2</sup> : 0.164	340	1.5

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

**For this product, please contact:**

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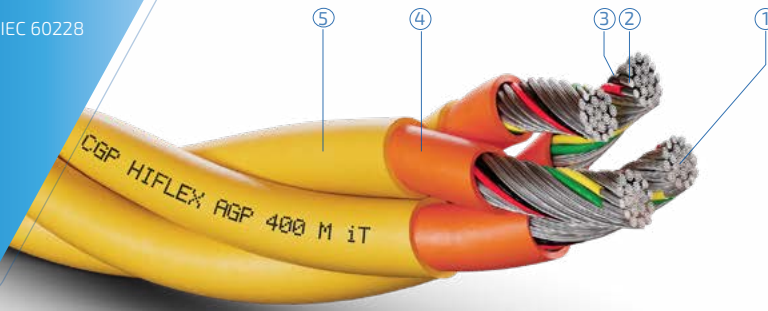
# HIFLEX® AGP 400 M iT

• **Conductor**

1. Class 6 tin plated copper according to IEC 60228

• **Control core**

- 2. Class 6 tin plated copper according to IEC 60228
- 3. Thermoplastic
- 4. Abrasion resistant polyurethan (abrasion indicator)
- 5. Abrasion resistant polyurethan



## Applications

400 Hz extra-flexible electrical cable for mobile applications : connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 M iT -  
1x[*cross-section*]mm<sup>2</sup> + 4x1mm<sup>2</sup> - 0.6/1kV -  
[*batch number*]

## Colour code

Control core: Yellow, green, red, black  
Internal Sheath: Orange (abrasion indicator)  
External Sheath: Yellow  
Other: please consult us.

## General characteristics

• **Thermal**

Maximal use temperature in static use: **-40°C to +90°C**  
Maximal use temperature in dynamic use: **-20°C to +90°C**

• **Electrical**

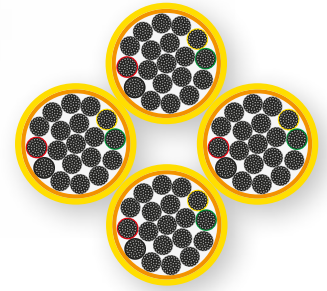
Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: 4000 V

• **Mechanical strength**

Minimal bending radius : 4 x Ø in static use  
6 x Ø in dynamic use  
Resistance to torsion and flexion: ★★★★★☆  
Resistance to abrasion and tear: ★★★★★

• **Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to ozone, water, UV radiations and mineral oils  
Halogen free materials according to IEC 60754  
No corrosive and low toxicity gases.



4x(1x35 mm<sup>2</sup> + 4x1 mm<sup>2</sup>)  
4x(1x50 mm<sup>2</sup> + 4x1 mm<sup>2</sup>)  
4x(1x70 mm<sup>2</sup> + 4x1 mm<sup>2</sup>)

*General assembling: Helicoidal stranding  
Assembling protection by non woven polyester tape (covering : 25% min).*

## AGP 400 M iT

Nb cores x Cross section	Conductor diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Maximal current rating (A)	Approx. Cable weight (kg / m)
	Min	Max				
4x(1x35 mm <sup>2</sup> + 4x1 mm <sup>2</sup> )	32	36	35 mm <sup>2</sup> : 0.85	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.554	154	2.1
4x(1x50 mm <sup>2</sup> + 4x1 mm <sup>2</sup> )	39	43	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 50 mm <sup>2</sup> : 0.393	200	2.8
4x(1x70 mm <sup>2</sup> + 4x1 mm <sup>2</sup> )	43	47	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 70 mm <sup>2</sup> : 0.277	265	3.8

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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# HIFLEX® AGP 400 M iTN

**• Phase conductor**

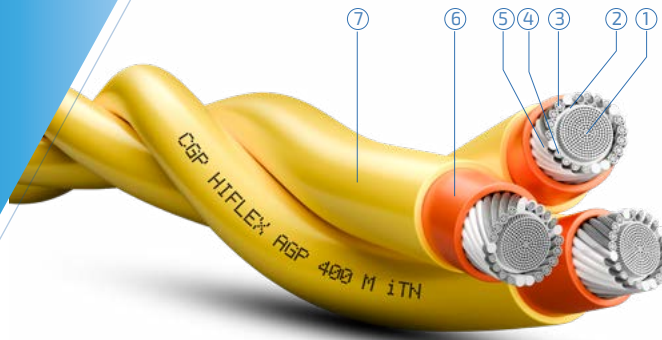
1. Class 6 tin plated copper according to IEC 60228
2. Thermoplastic

**• Neutral conductor**

3. Stranded tin plated copper

**• Control core**

4. Class 6 tin plated copper according to IEC 60228
5. Thermoplastic
6. Abrasion resistant polyurethan (abrasion indicator)
7. Abrasion resistant polyurethan



## Applications

400 Hz extra-flexible electrical cable for mobile applications : connection between the ground and the aircraft, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 M iTN  
1x[*cross-section*]mm<sup>2</sup> + [nb neutral conductor]x[*cross-section*]mm<sup>2</sup> + 8x1mm<sup>2</sup> - 0.6/1kV - [batch number]

## Colour code

Phase Conductor: White  
Control core: White numbered  
Internal Sheath: Orange (abrasion indicator)  
External Sheath: Yellow  
Other: please consult us.

## General characteristics

**• Thermal**

Maximal use temperature in static use: **-40°C to +90°C**  
Maximal use temperature in dynamic use: **-20°C to +90°C**

**• Electrical**

Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: 4000 V  
Maximal current rating : 270A  
(*Tambient*: 30°C / *Tconductor*: 90°C)

**• Mechanical strength**

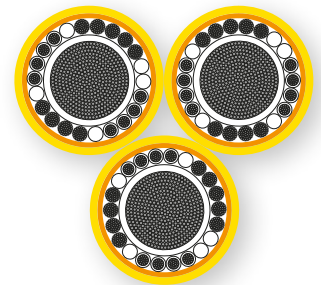
Minimal bending radius : 3 x Ø in static use  
4 x Ø in dynamic use

Resistance to torsion and flexion: ★★★★★

Resistance to abrasion and tear: ★★★★★

**• Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to ozone, water, UV radiations and mineral oils  
Halogen free materials according to IEC 60754  
Flame retardant cable according to IEC60332-1  
No corrosive and low toxicity gases.



3x(1x50 mm<sup>2</sup> / 20 + 8x1 mm<sup>2</sup>)  
3x(1x70 mm<sup>2</sup> / 25 + 8x1 mm<sup>2</sup>)

*Concentric stranding of 8 control conductors + neutral conductor + eventual fillers for cylindricity around the phase conductor.*

*Assembling protection by non woven polyester tape (covering : 25% mini).*

## AGP 400 M iTN

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
3x(1x50 mm <sup>2</sup> / 20 + 8x1 mm <sup>2</sup> )	42.5	45.5	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 50 mm <sup>2</sup> : 0.393	3.1
3x(1x70 mm <sup>2</sup> / 25 + 8x1 mm <sup>2</sup> )	47.5	50.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 70 mm <sup>2</sup> : 0.277	3.8

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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# **FIXED APPLICATIONS**

# HIFLEX® AGP 400 F

• **Conductor**

1. Class 5 red copper according to IEC 60228
2. Polyethylen

• **Control core**

3. Class 6 tin plated copper according to IEC 60228
4. Thermoplastic  
*Helicoidal stranding of 4 conductors*
5. Halogen free polyolefin



## Applications

400 Hz electrical cable for fixed installation: underground connection between the power unit and the stationary unit, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 F – 7x35mm<sup>2</sup>  
+ 6x4x1 mm<sup>2</sup> – 0.6/1kV – [batch number]

## Colour code

Conductor:  
Blue / black numbered 1 to 3 (x2)  
Control core: White numbered  
External Sheath: Black  
Other: please consult us.

## General characteristics

• **Thermal**

Maximal use temperature in dynamic use: **-20°C to +90°C**

• **Electrical**

Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: Power cores: 4000 V  
Control cores: 1500 V  
Maximal current rating: 270A  
(*Tambient: 30°C / Tconductor: 90°C*)

• **Mechanical strength**

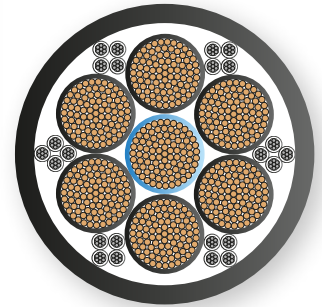
Minimal bending radius: 7 x Ø in static use

• **Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to chemical attack  
Halogen free materials according to IEC 60754-1  
Low corrosivity according to IEC 60754-2  
Low emission of opaque smoke according to IEC61034-2  
Water resistance: AD6.

• **Fire-performance**

Flame retardant according to IEC60332-1.



7x35 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>

*General assembling: Helicoidal stranding  
Assembling protection by non woven polyester tape (covering : 25% min).*

## AGP 400 F

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
7x35 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	35.5	38.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.60	2.8

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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# HIFLEX® AGP 400 F LH

**• Conductor**

1. Class 5 red copper according to IEC 60228
2. Polyvinyl chloride

**• Control core**

3. Class 6 tin plated copper according to IEC 60228
4. Thermoplastic  
*Helicoidal stranding of 3 or 4 conductors*
5. Polyvinyl chloride



## Applications

400 Hz electrical cable for fixed installation: underground connection between the power unit and the stationary unit, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 F LH -  
7x[*cross-section*]mm<sup>2</sup> + 6x[*nb control core*]x1mm<sup>2</sup> - 0.6/1kV - [batch number]

## Colour code

Conductor:  
Blue / white (x2) / brown (x2) / black (x2)  
Control core: Black numbered  
External Sheath: Orange  
Other: please consult us.

## General characteristics

**• Thermal**

Maximal use temperature in static use: **-30°C to +80°C**

**• Electrical**

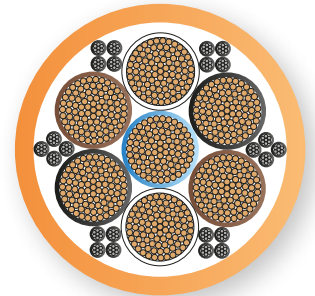
Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: 4000 V  
Maximal current rating : 25mm<sup>2</sup> : 210A / 35mm<sup>2</sup> : 270A  
(*Tambient : 30°C / Tconductor : 90°C*)

**• Mechanical strength**

Minimal bending radius : 6 x Ø in static use

**• Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to ozone, water, UV radiations and mineral oils.



7x25 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>  
7x35 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>

*General assembling: Helicoidal stranding  
Assembling protection by non woven polyester tape (covering : 25% min).*

## AGP 400 F LH

Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
7x25 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	35.5	38.5	50 mm <sup>2</sup> : 0.62	1 mm <sup>2</sup> : 20.5 25 mm <sup>2</sup> : 0.84	2.5
7x35 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	37.5	40.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.60	3.2
7x50 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	38.5	41.5	100 mm <sup>2</sup> : 0.35	1 mm <sup>2</sup> : 20.5 50 mm <sup>2</sup> : 0.39	4.1
7x70 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	47.5	50.5	140 mm <sup>2</sup> : 0.27	1 mm <sup>2</sup> : 20.5 70 mm <sup>2</sup> : 0.16	5.6

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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# HIFLEX® AGP 400 F A

**• Conductor**

1. Class 5 red copper according to IEC 60228
2. Polyethylen

**• Control core**

3. Class 6 tin plated copper according to IEC 60228
4. Thermoplastic  
*Helicoidal stranding of 4 conductors*

5. Halogen free polyolefin
6. Double steel tape
7. Halogen free polyolefin



## Applications

400 Hz electrical cable for fixed installation: underground connection between the power unit and the stationary unit, allowing battery charging, pre-flight provisions, checks and maintenance operations.

## Marking

CGP HIFLEX AGP 400 F A -  
7x35 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup> - 0.6/1kV  
[batch number]

## Colour code

Conductor:  
Blue / black numbered 1 to 3 (x2)  
Control core: White numbered  
External Sheath: Black  
Other: please consult us.

## General characteristics

**• Thermal**

Maximal use temperature in dynamic use: **-20°C to +90°C**

**• Electrical**

Operating voltage: 0.6 / 1 kV  
Nominal voltage: 115 / 230 V  
Test voltage: Power cores: 4000 V  
Control cores: 1500 V  
Maximal current rating: 270A  
(*T<sub>ambient</sub> : 30°C / T<sub>conductor</sub> : 90°C*)

**• Mechanical strength**

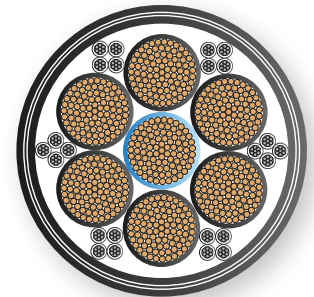
Minimal bending radius: 10 x Ø in static use  
Impact resistance: AG4  
Rodent resistant

**• Chemical**

All materials comply with the RoHs and Reach european directives  
Good resistance to chemical attack  
Halogen free materials according to IEC 60754-1  
Low corrosivity according to IEC 60754-2  
Low emission of opaque smoke according to IEC61034-2  
Water resistance: AD6.

**• Fire-performance**

Flame retardant according to IEC60332-1.



7x35 mm<sup>2</sup> + 6x4x1 mm<sup>2</sup>

*General assembling: Helicoidal stranding  
Assembling protection by non wooven polyester tape (covering : 25% min).*

AGP 400 F A					
Nb cores x Cross section	Cable outer diameter (mm)		Voltage drop (mV/Am)*	Maximum linear resistance at 20°C (Ω / km)	Approx. Cable weight (kg / m)
	Min	Max			
7x35 mm <sup>2</sup> + 6x4x1 mm <sup>2</sup>	38.5	41.5	70 mm <sup>2</sup> : 0.46	1 mm <sup>2</sup> : 20.5 35 mm <sup>2</sup> : 0.60	3.6

\* Voltage drop between phase and neutral  
For cos Φ = 0.8  
Temperature = 20 degrees Celsius

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A photograph of an aircraft maintenance worker in a white hard hat and orange safety vest, kneeling and working on a large aircraft engine. The worker is wearing blue gloves and is focused on the task. The engine is a large, complex piece of machinery with many blades. The background shows an airport tarmac with other aircraft and ground service equipment.

**HIGH  
PERFORMANCE  
SPECIAL  
MULTI-FUNCTION  
CABLES**

# OMBILIFLEX®

## SIGNAL

**Data bus, Coaxial  
Fibre optic, Thermocouple**  
Impedance 50 Ω to 150 Ω  
Single-mode/multi-mode fibres  
Thermocouple Couple T, J, E, K, N

## ELECTROMAGNETIC SCREEN

**Low and high frequencies**

## TRACTION

**By cord or braid**  
Tensile strength 10 daN to 6,000 daN

## ENERGY

**Power, Control, Command**  
Very Low Voltage to 1,000 V

## FLUID

**Pneumatic or Hydraulic**  
Low and high pressure tube, non-toxic tube,  
high temperatures, excellent chemical resistance, etc.

## BENDING

**Use in movements**  
Power chain, alternate bending,  
bending and torsional stresses

## High performance characteristics

**OMBILIFLEX®** cables undergo numerous tests at every production stage to ensure a high level of quality and to meet your requirements

Our laboratory has the means to test and validate the **physical, mechanical, chemical, electrical and fire behaviours** of the cables we produce

## Applications

This range of multifunction hybrid cables is intended for cutting-edge sectors like aerospace, military applications, robotics, medical applications, oil exploration, industry, etc.

## Customized products

### CGP INNOVATION

Thanks to our expertise and total mastery of our electrical cable manufacturing processes, the engineers of our R & D department have developed the **OMBILIFLEX®** range. Umbilical cables that can combine up to 6 different functions in one single product: **Energy, Signal, Fluid, Traction, Flexion and Electromagnetic protection**. This range of hybrid and multi-functional cables is designed for high-tech sectors such as aeronautics, military, robotics, medical, oil exploration, industry, etc.

Our Design Office is made up of experienced engineers who are specialists in **metallurgy, plastics manufacture, electromagnetic compatibility, micromechanics, data transmission, etc.** It will provide you with a fast, precise response by developing an **OMBILIFLEX®** formed of power cables, twisted pairs, coaxial cables, tubes, fibre optics, shielding, braid or traction cord, etc. in line with the miscellaneous and complex constraints of your applications.

## SAMPLE PRODUCTION

### OMBILIFLEX® U5-1000ITJD

#### Aerospace/Machine tools sector

Umbilical cable for industrial drill used to assemble the metal structure of an aircraft. This **OMBILIFLEX®** cable transfers the fluid (pressurised oil), information (running the tooling) and power (supplying the tooling) and ensures good tensile strength and resistance to alternating movements.



### OMBILIFLEX® U3-10000B

#### Defence/Military sector

Umbilical cable for airborne video surveillance systems. This **OMBILIFLEX®** cable transfers power (camera supply) and information via fibre optics (high speed video/audio) and maintains very high tensile strength (> 4 000 daN).



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