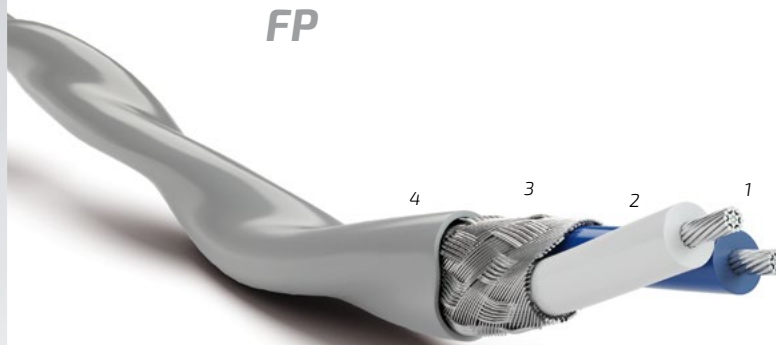


TWINLINK®

FP

- 1 • Silver plated copper core
- 2 • Fluorinated polymer FEP
- 3 • Silver plated copper braid
- 4 • Fluorinated polymer FEP



Standards and approvals

Performances:

- IEC 60332-1
- C2 NF C 32-070
- FAR 25

Colour code

- Grey jacket and Blue / White cores
- For any other request: please contact us

Options

Miniature version in PTFE taped insulation

Applications

Data transmission in high temperature environment for aerospace and defence industries

Characteristics

• **Thermal**

Continuous operating temperature: **-55°C to +200°C**

• **Electrical**

Operating voltage: < 600 V RMS

Impedance: 50 Ω / 75 Ω / 100 Ω / 120 Ω

• **Mechanical**

Resistance to abrasion: ★★★★★

EN 3475

• **Chemical**

Resistance to chemical environments: ★★★★★

Resistance to humidity: ★★★★★

Resistance to aircraft fluids: ★★★★★

EN 3475

• **Fire-smoke**

Flame retardant

IEC 60332-1 / C2 NF C 32-070 / FAR 25

• **Electromagnetic protection**

Excellent covering (shielding) > 91%

DATA TRANSMISSION CHARACTERISTICS

Characteristics	Version FP 50	Version FP 75	Version FP 100	Version FP 120
Impedance	50 Ω	75 Ω	100 Ω	120 Ω
Tolerance	+/- 5 Ω	+/- 8 Ω	+/- 10 Ω	+/- 12 Ω
Transfer impedance at 1 MHz	5 to 25 Ω / m	5 to 25 Ω / m	5 to 25 Ω / m	5 to 25 Ω / m
Min. insulation resistance	> 1,500 MΩ.km	> 1,500 MΩ.km	> 1,500 MΩ.km	> 1,500 MΩ.km
Capacitance	40 to 90 pF / m	40 to 90 pF / m	40 to 90 pF / m	40 to 90 pF / m
Typical attenuation at 20 MHz	30 dB / 100 m	15 dB / 100 m	5 dB / 100 m	4 dB / 100 m
Velocity of propagation	66 to 90%	66 to 90%	66 to 90%	66 to 90%
Operating voltage	< 600 V	< 600 V	< 600 V	< 600 V

CONSTRUCTION

AWG	Stranding (n x mm)	FP 50		FP 75		FP 100		FP 120	
		Cable outer diameter (mm) Nominal	Approx. linear weight (kg / km)	Cable outer diameter (mm) Nominal	Approx. linear weight (kg / km)	Cable outer diameter (mm) Nominal	Approx. linear weight (kg / km)	Cable outer diameter (mm) Nominal	Approx. linear weight (kg / km)
AWG 22	19 x 0.16	3.20	22.0	4.10	30.3	5.30	51.2	6.50	70.3
AWG 24	19 x 0.12	2.70	16.1	3.40	21.5	4.40	30.9	5.30	51.2
AWG 26	19 x 0.10	2.30	13.0	2.80	15.4	3.70	23.3	4.40	30.9

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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.

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