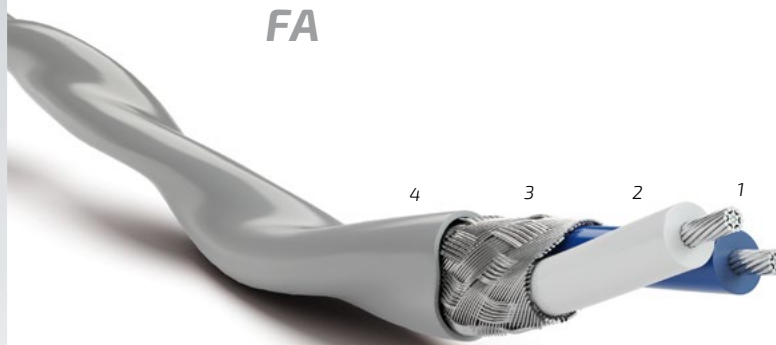


# TWINLINK®

## FA

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



### 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: **-90°C to +260°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 <b>FA 50</b>	Version <b>FA 75</b>	Version <b>FA 100</b>	Version <b>FA 120</b>
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)	FA 50		FA 75		FA 100		FA 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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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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