High-temperature RF coaxial & avionics data

FP/FA 260°C Impedance Pair

FP/FA 260 °C 100 Ω Controlled-Impedance PTFE/PFA Pair

260 °C silver-plated copper screened PTFE/PFA 100 Ω high-temp data pair



IEC 61156 (100 Ω ref.) | 300 V · +260 °C | Fluoropolymer HT

Application

FP/FA 260 °C Controlled-Impedance Pair combines silver-plated copper twisted pairs in low-loss PTFE insulation, ≥ 85% silver-plated copper braid, and a translucent white PFA outer sheath for 260 °C aerospace and downhole telemetry.

Typical uses: Commercial & military aircraft avionics bays, Radar, electronic warfare & satellite transceivers, MIL-STD-1553B airborne multiplex data networks, High-temperature RF test benches & telemetry

Construction





Cross-section, not to scale

1	**Conductor**	ASTM B298 Class K stranded silver-plated annealed copper · ASTM B298 Silver Cu
2	**Dielectric / core insulation**	Low-loss extruded PTFE fluoropolymer (100 Ω differential pair) · IEC 61156 (100 Ω ref.)
3	**Core assembly & separator**	Concentric cabled core assembly with low-friction fleece/polyester separator tape · IEC 61156 (100 Ω ref.)
4	**Metallic EMC screen**	Overall ≥ 85% silver-plated copper wire braid shield · EMC ≥ 85% shield
5	**Outer sheath**	Off-white 260 °C extruded PFA fluoropolymer outer sheath · 260 °C Continuous PFA/PTFE

Technical data

Typical values

Rated voltage	300 V	**Test voltage**	1.5 kV AC
Conductor	Silver-Plated Cu	**Insulation**	Low-loss extruded PTFE fluoropolymer (100
Impedance / insulation	100 Ω ± 10 Ω · ≥ 5,000 MΩ·km	**Temp. range (fixed)**	-100 °C to +260 °C
Temp. range (flexing)	-65 °C to +260 °C	**Peak / short-circuit**	+300 °C (short-term)
Min. bending radius	10 × OD (fixed)	**Flame / fire rating**	260 °C Continuous PFA/PTFE
Thermal / chemical	100 Ω ± 10 Ω Impedance	**Mechanical / special**	≥ 85% Silver-Cu Braid
Outer finish	Off-white 260 °C extruded PFA		

Sizes

4 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

	Pairs · Impedance	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 10×D mm
☐	1P×26 AWG · 100 Ω	3.6	150.00	14	30	36
☐	1P×24 AWG · 100 Ω	4.2	94.20	20	42	42
☐	1P×22 AWG · 100 Ω	4.8	59.40	28	56	48
☐	2P×24 AWG · 100 Ω	6.2	94.20	38	78	62

- Conductor DC resistance R20 at 20 °C per ASTM B298 Silver Cu.
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- ✓ IEC 61156 (100 Ω ref.)
- ✓ ASTM B298 Silver Cu
- ✓ UL VW-1
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/fp-fa-260c-controlled-impedance-ptfe-pfa-data-pair

Typical values for this cable type, based on IEC 61156 (100 Ω ref.) · ASTM B298 Silver Cu · UL VW-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.