



AS-Interface, ISOBUS & KNX Building Bus Cables

AS-Interface / AS-i Flat Cable

IEC 62026-2 / EN 50295 2×1.5 mm² (10.0 × 4.0 mm) Yellow/Black mechanically keyed



IEC 62026-2 / EN 50295

2×1.5 mm² & 2×2.5 mm²

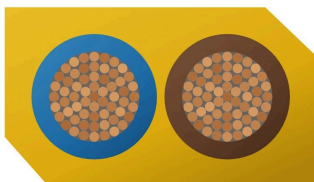
10.0 × 4.0 mm Piercing Profile

Application

AS-Interface / AS-i Flat Cable is the IEC 62026-2 and EN 50295 mechanically keyed trapezoidal profile cable (10.0 × 4.0 mm) containing two unshielded 1.5 mm² (or 2.5 mm²) Class 6 extra-fine tinned copper conductors (Brown + / Blue -) designed for

Typical uses: Conveyor & baggage handling systems, Food, beverage & bottling washdown, Automotive assembly & safety gates, Pneumatic valve & sensor islands

Construction



Cross-section, not to scale

1 Class 6 extra-fine tinned copper

IEC 62026-2 / EN 50295

2 Piercing-grade core insulation

IEC 62026-2

3 Keyed trapezoidal profile sheath (10 ×

IEC 62026-2 Profile

Technical data

Typical values

Characteristic impedance @ 167 kHz	100 Ω ± 20 Ω (85–125 Ω APM working band)	Max. DC conductor resistance @ 20 °C	≤ 13.7 Ω/km (1.5 mm ²) · ≤ 8.21 Ω/km (2.5 mm ²)
Mutual capacitance @ 1 kHz	≤ 80 pF/m (typical 55–65 pF/m)	Specific inductance @ 167 kHz	≈ 0.65 mH/km
Velocity of propagation (VoP)	≈ 66 % (0.66 c)	Operating / test voltage	300 V (UL AWM / IEC) · 2.0 kV AC dielectric
Operating temp. (EPR / TPE / PUR)	-40 °C to +85 °C (EPR/TPE) · -40 °C to +80 °C	Piercing installation temperature	-25 °C to +60 °C
Profile dimensions (W × H)	10.0 mm × 4.0 mm (± 0.15 mm precision)	Min. bending radius (flat / edge)	16 mm across flat axis · 50 mm across coded
Halogen-free & self-sealing	IEC 60754-1/2 (EPR, TPE-O & PUR versions)	Oil, coolant & washdown resistance	EN 60811-404 · IP67/IP68 contact sealing
Standards	IEC 62026-2 / EN 50295 · AS-International		

Sizes

6 standard constructions

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

Order designation	Configuration	Conductor size	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard AS-Interface / AS-i configurations 6 sizes						
☐ AS-i Yellow Bus Flat Cable 2×1.5 mm ² EPDM/EPR	2×1.5 mm ² (Yellow EPR Bus)	1.5 mm ² (16 AWG)	10.0	29	64	40
☐ AS-i Black 24V AUX Flat Cable 2×1.5 mm ² EPDM/EPR	2×1.5 mm ² (Black EPR 24V AUX)	1.5 mm ² (16 AWG)	10.0	29	64	40
☐ AS-i Yellow Bus Flat Cable 2×1.5 mm ² Oil-PUR	2×1.5 mm ² (Yellow PUR Bus)	1.5 mm ² (16 AWG)	10.0	29	60	40
☐ AS-i Black 24V AUX Flat Cable 2×1.5 mm ² Oil-PUR	2×1.5 mm ² (Black PUR 24V AUX)	1.5 mm ² (16 AWG)	10.0	29	60	40
☐ AS-i High-Current Yellow Flat Cable 2×2.5 mm ²	2×2.5 mm ² (High-Current Yellow)	2.5 mm ² (14 AWG)	10.0	48	82	40
☐ AS-i High-Current Black AUX Flat Cable 2×2.5 mm ²	2×2.5 mm ² (High-Current Black AUX)	2.5 mm ² (14 AWG)	10.0	48	82	40

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per IEC 62026-2 / EN 50295 (AS-Interface / AS-i Profile Cable).

Impedance, capacitance & attenuation

6 sizes

Configuration	Impedance Z ₀	Max. DC R @ 20 °C Ω/km	Mutual C pF/m ≈	VoP %	Attenuation @ 20 °C dB/100m	Dielectric test V
2×1.5 mm ² (Yellow EPR Bus)	100 Ω	27.4	60.0	66	0.35 dB/100m @ 167 kHz	2,000
2×1.5 mm ² (Black EPR 24V AUX)	100 Ω	27.4	60.0	66	0.35 dB/100m @ 167 kHz	2,000
2×1.5 mm ² (Yellow PUR Bus)	100 Ω	27.4	58.0	66	0.35 dB/100m @ 167 kHz	2,000
2×1.5 mm ² (Black PUR 24V AUX)	100 Ω	27.4	58.0	66	0.35 dB/100m @ 167 kHz	2,000
2×2.5 mm ² (High-Current Yellow)	95 Ω	16.4	65.0	66	0.26 dB/100m @ 167 kHz	2,000
2×2.5 mm ² (High-Current Black AUX)	95 Ω	16.4	65.0	66	0.26 dB/100m @ 167 kHz	2,000

– Transmission values (characteristic impedance Z₀, mutual capacitance, VoP, and attenuation) are measured at +20 °C per IEC 62026-2 / EN 50295 (AS-Interface / AS-i Profile Cable).

Standards and approvals

- ✓ IEC 62026-2 / EN 50295
- ✓ AS-International Certified
- ✓ UL AWM / CMG

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/as-interface-flat-cable



Typical values for this cable type, based on IEC 62026-2 / EN 50295 (AS-Interface / AS-i Profile Cable). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.