



Control & signal cable

GP 400 SF S Control

Passenger-Boarding-Bridge Cable-Chain Control

-40 to +90 °C Class 6 EMC-screened PUR drag-chain cable for airport boarding bridges



Airport PBB / 400 Hz GSE

300/500 V (600 V UL)

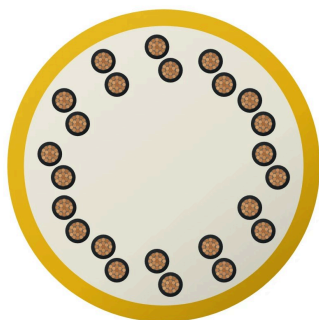
-40 °C to +90 °C Drag Chain

Application

GP 400 SF S Control super-flexible ('SF') screened ('S') drag-chain control cable (-40 to +90 °C) for airport passenger boarding bridges (PBB) and 400 Hz GSE, with IEC 60228 Class 6 copper cores, TPE insulation, Sn-Cu braid, and aviation PUR jacket.

Typical uses: Airport Passenger Boarding Bridges, 400 Hz Ground Power Interlocks, Pre-Conditioned Air (PCA) Booms, Aircraft Docking Guidance (A-VDGS), Cold-Climate Apron Automation

Construction



Cross-section, not to scale

- 1 Super-fine Class 6 copper (SF)
- 2 Cold-elastic TPE/EPR core wall
- 3 Gusset-filling inner sheath
- 4 Low-torsion tinned copper braid (S)
- 5 Aviation-fluid-resistant PUR jacket

Technical data

Typical values

Rated voltage U0/U	300/500 V AC (600 V UL/CSA AWM)	AC dielectric test voltage	3,000 V AC (core/core) · 1,500 V (screen)
Operating frequency	DC, 50/60 Hz & 400 Hz aircraft control	EMC braid coverage	≥ 85 % tinned copper wire braid
Dynamic drag-chain temp.	-40 °C to +90 °C continuous	Fixed installation temp.	-50 °C to +90 °C
Cold-bend impact test	-40 °C per EN 60811-504/505	Conductor stranding	IEC 60228 Class 6 super-fine copper
Min. bending radius (chain)	7.5 × overall cable diameter	Min. bending radius (fixed)	4 × overall cable diameter
Chain travel & speed	Up to 50 m telescopic travel · 3 m/s	Aviation fluid resistance	Resists Jet A-1, glycol de-icers & oils
Flame & halogen rating	IEC 60332-1-2 / UL VW-1 · IEC 60754-1/2	UV & weather resistance	ISO 4892-2 outdoor airport apron UV pass
Standards	EN 50363-10-2 TMPU · IEC 60228 Class 6		

Sizes

20 standard constructions

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

Order designation	Cross-section / size	Conductor build	Wall ≈ mm	Outer Ø ≈ mm	Metal kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard GP 400 SF S Control configurations 20 sizes							
☐ GP 400 SF S 4G0.75	4G0.75 mm ²	Class 6 Cu (SF) (0.75 mm ²)	1.25	7.50	55.8	116.6	60
☐ GP 400 SF S 7G0.75	7G0.75 mm ²	Class 6 Cu (SF) (0.75 mm ²)	1.25	8.70	81.7	163.4	70
☐ GP 400 SF S 12G0.75	12G0.75 mm ²	Class 6 Cu (SF) (0.75 mm ²)	1.45	11.40	127.4	267.8	91
☐ GP 400 SF S 18G0.75	18G0.75 mm ²	Class 6 Cu (SF) (0.75 mm ²)	1.45	13.20	177.1	365.3	106
☐ GP 400 SF S 25G0.75	25G0.75 mm ²	Class 6 Cu (SF) (0.75 mm ²)	1.45	15.20	234.7	484.2	122
☐ GP 400 SF S 4G1	4G1 mm ²	Class 6 Cu (SF) (1 mm ²)	1.25	7.90	66.8	134.2	63
☐ GP 400 SF S 7G1	7G1 mm ²	Class 6 Cu (SF) (1 mm ²)	1.25	9.20	100.3	191.7	74
☐ GP 400 SF S 12G1	12G1 mm ²	Class 6 Cu (SF) (1 mm ²)	1.45	12.20	159.1	319.8	98
☐ GP 400 SF S 18G1	18G1 mm ²	Class 6 Cu (SF) (1 mm ²)	1.45	14.10	223.6	438.3	113
☐ GP 400 SF S 25G1	25G1 mm ²	Class 6 Cu (SF) (1 mm ²)	1.45	16.30	298.7	585.6	130
☐ GP 400 SF S 4G1.5	4G1.5 mm ²	Class 6 Cu (SF) (1.5 mm ²)	1.25	9.10	90.4	179.8	73
☐ GP 400 SF S 7G1.5	7G1.5 mm ²	Class 6 Cu (SF) (1.5 mm ²)	1.25	10.70	139.3	262.9	86
☐ GP 400 SF S 12G1.5	12G1.5 mm ²	Class 6 Cu (SF) (1.5 mm ²)	1.45	14.30	224.3	445.1	114
☐ GP 400 SF S 18G1.5	18G1.5 mm ²	Class 6 Cu (SF) (1.5 mm ²)	1.45	16.60	319.0	616.6	133
☐ GP 400 SF S 25G1.5	25G1.5 mm ²	Class 6 Cu (SF) (1.5 mm ²)	1.45	19.30	429.5	831.8	154
☐ GP 400 SF S 36G1.5	36G1.5 mm ²	Class 6 Cu (SF) (1.5 mm ²)	1.45	22.30	598.7	1,135.8	178
☐ GP 400 SF S 4G2.5	4G2.5 mm ²	Class 6 Cu (SF) (2.5 mm ²)	1.25	10.30	133.1	247.7	82
☐ GP 400 SF S 7G2.5	7G2.5 mm ²	Class 6 Cu (SF) (2.5 mm ²)	1.25	12.10	211.6	369.7	97
☐ GP 400 SF S 12G2.5	12G2.5 mm ²	Class 6 Cu (SF) (2.5 mm ²)	1.45	16.20	346.3	629.7	130
☐ GP 400 SF S 4G4	4G4 mm ²	Class 6 Cu (SF) (4 mm ²)	1.25	12.60	199.0	370.5	101

- Outer diameters and weights are nominal engineering values for GP 400 SF S Control subject to standard manufacturing tolerances per EN 50525 / UL 758 / ISO 19659 Airport PBB Drag-Chain Specification.

Electrical & rating data

20 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or nF/km)	Secondary rating	Dielectric test V AC rms
4G0.75 mm ²	26.00	12.0	9.0	3,000
7G0.75 mm ²	26.00	12.0	9.0	3,000
12G0.75 mm ²	26.00	12.0	9.0	3,000

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or nF/km)	Secondary rating	Dielectric test V AC rms
18G0.75 mm ²	26.00	12.0	9.0	3,000
25G0.75 mm ²	26.00	12.0	9.0	3,000
4G1 mm ²	19.50	15.0	11.0	3,000
7G1 mm ²	19.50	15.0	11.0	3,000
12G1 mm ²	19.50	15.0	11.0	3,000
18G1 mm ²	19.50	15.0	11.0	3,000
25G1 mm ²	19.50	15.0	11.0	3,000
4G1.5 mm ²	13.30	18.0	14.0	3,000
7G1.5 mm ²	13.30	18.0	14.0	3,000
12G1.5 mm ²	13.30	18.0	14.0	3,000
18G1.5 mm ²	13.30	18.0	14.0	3,000
25G1.5 mm ²	13.30	18.0	14.0	3,000
36G1.5 mm ²	13.30	18.0	14.0	3,000
4G2.5 mm ²	7.98	26.0	20.0	3,000
7G2.5 mm ²	7.98	26.0	20.0	3,000
12G2.5 mm ²	7.98	26.0	20.0	3,000
4G4 mm ²	4.95	34.0	26.0	3,000

– Electrical resistance at +20 °C and dielectric withstand voltages verified per EN 50525 / UL 758 / ISO 19659 Airport PBB Drag-Chain Specification.

Standards and approvals

- ✓ EN 50525 / UL 758 / ISO 19659 Airport PBB Drag-Chain Specification
- ✓ CE (2014/35/EU) & RoHS 3 (2015/863/EU) Compliant
- ✓ REACH SVHC Compliance Verified

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

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Email

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Web

tebaoflex.com/cables/passenger-boarding-bridge-cable-chain-control-cable



Typical values for this cable type, based on EN 50525 / UL 758 / ISO 19659 Airport PBB Drag-Chain Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.