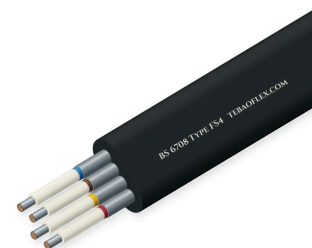


Mining trailing & reeling cables

BS 6708 Type FS4 Flat Cable (640/1,100 V)

BS 6708 Type FS4 Flat Catenary Cable (640/1,100 V)

640/1,100 V 4-core individually screened flat mining catenary cable (4×2.5 & 4×4 mm²)



BS 6708 Type FS4

640/1,100 V · 4×2.5 & 4×4 mm²

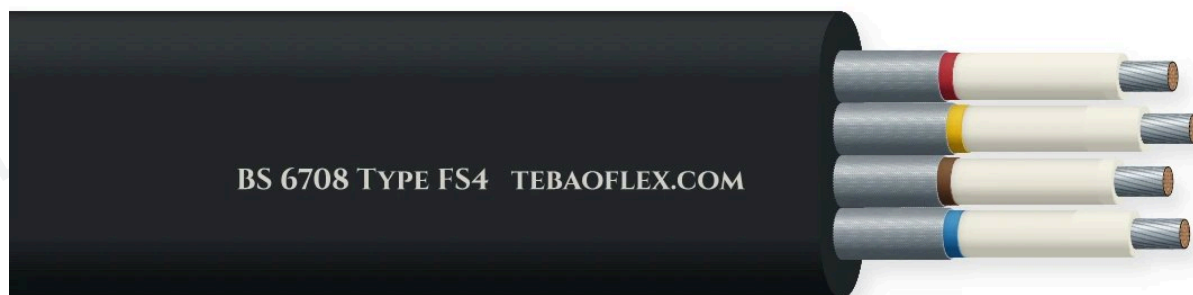
Flat Catenary · Individually Screened

Application

BS 6708 Type FS4 640/1,100 V flat catenary mining power and pilot supply cable with four parallel Class 5 tinned copper cores (3 phase + 1 pilot), 1.0 mm EPR insulation, individual tinned copper braid screens and a 3.8 mm PCP sheath.

Typical uses: Underground monorail catenary festoon systems, Longwall shearer & stage-loader loop carriers, 640/1,100 V auxiliary face pump & lighting feeds, Coalface pilot & remote-interlock loops, Suspended tunnel & gallery cable carriers, Gassy mine overhead power distribution

Construction



Cross-section, not to scale

1	Phase (3) & pilot (1) conductors	IEC 60228 Class 5
2	1.0 mm EPR core insulation	BS 6708 (3 kV test)
3	Coloured textile identification tape	BS 6708
4	Individual tinned copper braid screen	BS 6708
5	Flat heavy-duty chloroprene outer sheath	BS 6708

Technical data

Typical values

Rated voltage U0/U	640/1,100 V AC · 3 kV routine AC test voltage	Current rating (25 °C)	28 A (4×2.5 mm²) · 37 A (4×4 mm²) continuous at 25 °C ambient
Conductor & screen DC resistance	Conductors: 7.82 Ω/km (2.5 mm²) / 4.85 Ω/km (4 mm²) · Each copper braid screen: 7.40 Ω/km (2.5 mm²) / 8.48 Ω/km (4 mm²)	Ambient temperature range	−25 °C to +85 °C
Max. conductor temperature	+90 °C continuous EPR operating temperature (250 °C short-circuit)	Min. bending radius	100 mm (4×2.5 mm²) · 120 mm (4×4 mm²) on minor flat axis
Flat profile & sheath wall	4 screened cores spaced parallel without contact in a 3.8 mm nominal heavy-duty chloroprene (PCP) flat outer sheath	Catenary flexing & twist immunity	Flat parallel geometry eliminates axial corkscrewing on overhead monorail catenary carriers and loop systems
Flame, oil & inter-core isolation	Heavy-duty chloroprene web separates each braided core screen while resisting flame, mineral oil and mine water	Standards	BS 6708 (640/1,100 V flat catenary mining power supply cable — Type FS4)

Sizes

2 standard constructions

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

Designation BS 6708 Type	Core CSA mm ²	Stranding n/mm	Cond. Ø mm	EPR wall mm	Sheath wall mm	Min. W × H mm	Max. W × H mm	Min. bend mm	Current 25 °C A	Cond. DC 20 °C Ω/km	Each screen Ω/km	Cu mass kg/km	Mass ≈ kg/km
☐ Type FS4 · 4 × 2.5 mm ²	2.5	50/0.25	2.10	1.0	3.8	29.8 × 12.4	31.8 × 14.4	100	28	7.82	7.40	160	450
☐ Type FS4 · 4 × 4 mm ²	4.0	50/0.30	2.70	1.0	3.8	32.2 × 13.3	34.1 × 15.3	120	37	4.85	8.48	230	550

- Unlike circular BS 6708 trailing cables whose core screens touch each other, Type FS4 spaces all 4 braided cores (3 phase + 1 pilot) in a flat plane without contacting each other.
- Screen DC resistance (7.40 Ω/km on 4×2.5 mm² and 8.48 Ω/km on 4×4 mm²) is specified per individual core screen at 20 °C.

Standards and approvals

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/bs-6708-type-fs4-flat-cable



Typical values for this cable type, based on BS 6708 · IEC 60228 Class 5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.