



Mining trailing & reeling cables

BS 6708 Type 730 (3.8/6.6 kV)

BS 6708 Type 730 MV Trailing Cable (3,800/6,600 V)

3,800/6,600 V screened non-armoured medium-voltage mining trailing cable
(35-150+16 mm²)



BS 6708 Type 730

3,800/6,600 V · 35-150 mm²

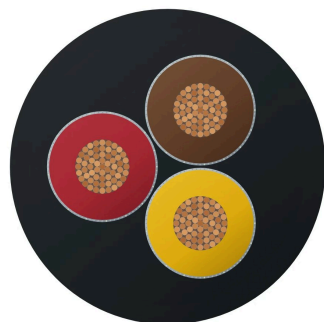
Screened Non-Armoured MV Trailing

Application

BS 6708 Type 730 3,800/6,600 V (3.8/6.6 kV) flexible non-armoured mining trailing cable with three individually copper/nylon braided-screened 5.0 mm EPR phase cores, central bare earth on 120-150 mm², and heavy-duty PCP sheath.

Typical uses: Large 6.6 kV movable mining machines, Quarry & open-cast electric face shovels, High-capacity 6.6 kV longwall shearers, Mobile primary crusher & dragline feeders, Heavy 6.6 kV mine dewatering skids, Rough-service MV trailing interconnections

Construction



Cross-section, not to scale

1	Flexible phase conductors (3)	IEC 60228 Class 5
2	5.0 mm EPR medium-voltage insulation	BS 6708 (15 kV test)
3	Coloured textile identification tape	BS 6708
4	Composite copper / nylon braided phase screen	BS 6708
5	Central bare earth conductor (120 & 150 mm ²)	BS 6708
6	Rubber inner bedding	BS 6708
7	Heavy-duty chloroprene outer sheath	BS 6708

Technical data

Typical values

Rated voltage U0/U	3,800/6,600 V (3.8/6.6 kV) AC · 15 kV routine AC test voltage	Current rating (25 °C)	135 A (35 mm²) to 320 A (150 mm²) continuous at 25 °C ambient
Phase & screen/earth DC resistance	Phase conductors: 0.565–0.132 Ω/km at 20 °C · 3 screens + earth in parallel: 0.81–0.26 Ω/km at 20 °C	Ambient temperature range	–25 °C to +85 °C
Max. conductor temperature	+90 °C continuous EPR operating temperature (250 °C short-circuit)	Min. bending radius	10 × Maximum Overall Diameter (605 mm on 3×35 mm² to 860 mm on 3×150+16 mm²)
Bedding & outer sheath	Rubber bedding compound + 6.0 to 8.0 mm heavy-duty chloroprene (PCP) outer sheath (57.5–86.0 mm OD)	Trailing abrasion & tear resistance	Unarmoured flexible construction with 6.0–8.0 mm heavy-duty chloroprene jacket resists rough quarry & mine floor drag
Flame, oil & water	Heavy-duty flame-retardant and oil-resistant chloroprene (PCP) outer sheath for wet underground & surface mining	Standards	BS 6708 (3,800/6,600 V screened non-armoured mining trailing cable — Type 730)

Sizes

6 standard constructions

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

Designation mm ²	Phase mm ²	Phase strand n/mm	Phase Ø mm	EPR wall mm	Central earth mm ² (strand · Ø)	Outer wall mm	Min. OD mm	Max. OD mm	Min. bend mm	Current 25 °C A	Phase DC 20 °C Ω/km	3 scr + earth Ω/km	Cu mass kg/km	Mass ≈ kg/km
☐ 3 × 35	35	276/0.40	8.40	5.0	— (3 screens)	6.0	57.5	60.5	605	135	0.565	0.81	1,300	4,800
☐ 3 × 50	50	396/0.40	10.10	5.0	— (3 screens)	6.3	62.0	65.0	650	170	0.393	0.78	1,800	5,900
☐ 3 × 70	70	360/0.50	11.90	5.0	— (3 screens)	6.8	67.5	71.4	714	205	0.277	0.55	2,500	7,100
☐ 3 × 95	95	475/0.50	13.90	5.0	— (3 screens)	7.3	73.1	76.9	769	250	0.210	0.42	3,250	8,500
☐ 3 × 120 + 16	120	608/0.50	15.50	5.0	1×16 (126/0.40 · 5.50 Ø)	7.6	76.9	80.9	809	295	0.164	0.32	4,200	9,950
☐ 3 × 150 + 16	150	756/0.50	17.20	5.0	1×16 (126/0.40 · 5.50 Ø)	8.0	82.1	86.0	860	320	0.132	0.26	5,000	11,400

- On 3×35 to 3×95 mm², the three tinned-copper/nylon braided phase screens laid in mutual contact form the protective earth path (0.42–0.81 Ω/km). On 3×120+16 and 3×150+16 mm², a central bare 1×16 mm² (126/0.40 mm) tinned copper earth conductor is laid in contact with all three screens.
- Minimum bending radius is 10 × Maximum Overall Diameter across all sizes.

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

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/bs-6708-type-730-mv-trailing-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.