



Mining trailing & reeling cables

BS 6708 Type 62 / 63 / 64

BS 6708 Type 62, Type 63 & Type 64 Screened Armoured Mining Cable

640/1,100 V 2-, 3- & 4-core × 4 mm² screened pliable wire-armoured cables



BS 6708

640/1,100 V · Types 62 / 63 / 64

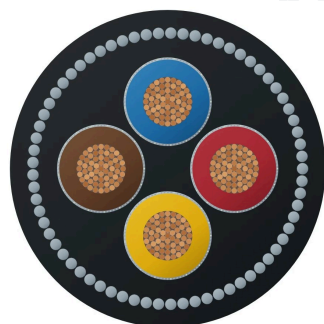
Screened + Pliable Wire Armour

Application

640/1,100 V individually screened and pliable wire-armoured 4 mm² mining cables to BS 6708:1998 in 2-core (Type 62), 3-core (Type 63) and 4-core (Type 64) constructions for coalface lighting, remote control, signalling and auxiliary power.

Typical uses: Longwall coalface lighting systems, Gate-end remote control & pilot links, Armoured conveyor trip-wire & signalling, Underground auxiliary power (640/1,100 V), Deep-mine gassy workings, Quarry control & interlock feeders

Construction



Cross-section, not to scale

1	4 mm ² flexible conductors	IEC 60228 Class 5
2	Core insulation	BS 7655 / BS 6708
3	Identification tape	
4	Individual composite screens	
5	Elastomeric cradle	
6	Inner bedding sheath	
7	Pliable wire armour (PWA)	BS 6708 PWA
8	Outer sheath	BS 6708 / BS 7655 EM2

Technical data

Typical values

Rated voltage (U0/U)	640/1,100 V AC (U0/U)	AC test voltage	2.5 kV AC dielectric test on all screened cores
Current rating (25 °C)	28 A continuous current rating at 25 °C ambient (4 mm ² Class 5 tinned copper)	Conductor, screen & armour DC res.	5.09 Ω/km max. conductor DC res. · 5.5 / 3.9 / 2.8 Ω/km max. parallel screen res. (Types 62/63/64) · 4.91 / 4.63 / 4.16 Ω/km max. armour res. at 20 °C
Reactance, IR & voltage drop	0.119 Ω/km (50 Hz) / 0.143 Ω/km (60 Hz) reactance · ≥ 590 MΩ·km insulation resistance at 20 °C · 12.38 mV/A/m (Type 62) / 10.72 mV/A/m (Types 63/64) voltage drop	Max. conductor temperature	+90 °C maximum continuous conductor temperature (EPR insulation)
Operating temperature range	-25 °C to +85 °C ambient installation / service range (current ratings referenced at 25 °C)	Minimum bending radius	270 mm (Type 62), 280 mm (Type 63), 290 mm (Type 64) minimum bending radius (~10 × maximum OD)
Maximum pulling tension	48 kgf (Type 62 2×4 mm ²), 72 kgf (Type 63 3×4 mm ²), 96 kgf (Type 64 4×4 mm ²) maximum pulling tension	Screens, bedding & wire armour	Individually composite copper/nylon braided screened cores (Ø 6.00 mm) + rubber inner bedding sheath (Ø 16.2–20.7 mm) + galvanized steel pliable wire armour + heavy-duty PCP outer sheath
Flame retardance	Flame retardant polychloroprene outer sheath to BS 6708 / BS EN 60332-1-2	Crush & mine environment	Dual metallic protection (individual core screens + pliable steel wire armour) resists roadway rockfall, crushing, oil and moisture
Standards	BS 6708 (Types 62, 63, 64); IEC 60228 Class 5; BS 7655		

Sizes

3 standard constructions

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

Type · nominal CSA mm ²	Conductor stranding	Cond. Ø mm	Insul. Ø mm	Screen Ø mm	Inner sh. Ø mm	Min. OD mm	Max. OD mm	Min. R mm	Max. pull kgf	Mass ≈ kg/km	Cu wt kg/km	Current (25 °C) A	Cond. res. Ω/km	Screens res. Ω/km	Armour res. Ω/km	V-drop mV/A/m
☐ Type 62 · 2×4	56/0.30	2.60	4.80	6.00	16.2–18.2	23.9	26.4	270	48	1,080	132	28	5.09	5.5	4.91	12.38
☐ Type 63 · 3×4	56/0.30	2.60	4.80	6.00	17.1–19.1	24.8	27.3	280	72	1,230	200	28	5.09	3.9	4.63	10.72
☐ Type 64 · 4×4	56/0.30	2.60	4.80	6.00	18.7–20.7	26.4	29.9	290	96	1,400	264	28	5.09	2.8	4.16	10.72

– All three types have a reactance of 0.119 Ω/km at 50 Hz (0.143 Ω/km at 60 Hz) and a minimum insulation resistance of 590 MΩ·km 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-62-63-64-armoured-cable



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