

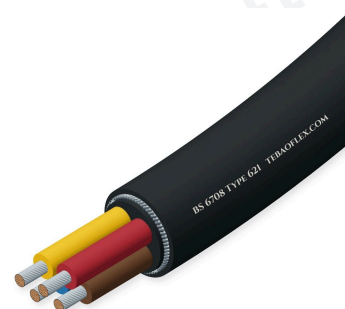


Mining trailing & reeling cables

BS 6708 Type 621 (3.8/6.6 kV)

BS 6708 Type 621 Armoured Power Cable (3.8/6.6 kV)

3,800/6,600 V 4-core unscreened EPR pliable-armoured power cable (4×35–4×150 mm²)



BS 6708 Type 621

3,800/6,600 V · 4×35–4×150 mm²

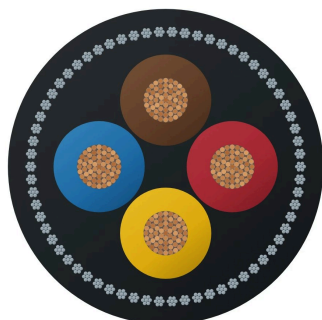
4 Unscreened + Pliable Armour

Application

BS 6708 Type 621 3,800/6,600 V (15 kV AC test) pliable-armoured power supply cable with four equal Class 5 tinned copper cores (3 phase + 1 pilot/earth), 5.0 mm EPR insulation, pliable steel wire armour and PCP sheath.

Typical uses: 6.6 kV mine roadway power extensions, Quarry primary & secondary crushing plants, Large surface & underground excavators, Mobile skid-mounted transformer feeders, Deep mine pumping & ventilation stations, Heavy industrial 6.6 kV movable plant

Construction



Cross-section, not to scale

1	Phase & pilot/earth conductors (4)	IEC 60228 Class 5
2	Medium-voltage EPR insulation	BS 6708 (3.8/6.6 kV)
3	Rubber bedding & inner sheath	BS 6708
4	Pliable galvanised steel wire armour	BS 6708
5	Heavy-duty chloroprene outer sheath	BS 6708

Technical data

Typical values

Rated voltage U0/U	3,800/6,600 V AC (3.8/6.6 kV) · 15 kV routine AC test voltage	Current rating (25 °C)	135 A (4×35 mm ²) to 320 A (4×150 mm ²) continuous at 25 °C ambient
Conductor & armour DC resistance	Conductors: 0.565 to 0.132 Ω/km at 20 °C · Pliable steel armour: 0.70 to 0.35 Ω/km at 20 °C	Ambient temperature range	–25 °C to +85 °C
Max. conductor temperature	+90 °C continuous EPR operating temperature	Min. bending radius	752 mm (4×35 mm ²) to 1,076 mm (4×150 mm ²) (10 × max OD)
Armour & sheaths	3.8–5.0 mm rubber inner sheath + 7/0.90 or 7/1.25 mm pliable galvanised steel armour + 6.0–8.3 mm heavy-duty chloroprene outer sheath	Crush & impact protection	7-wire stranded galvanised steel pliable wire armour (7/0.90 or 7/1.25 mm) resists rockfall and quarry impact
Flame, oil & environment	6.0–8.3 mm heavy-duty chloroprene (PCP) outer sheath for deep gassy/dusty mines and surface quarries	Standards	BS 6708 (Medium-voltage pliable-armoured mining cables)

Sizes

6 standard constructions

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

Designation 4Cores	Core CSA mm ²	Stranding n/mm	Cond. Ø mm	EPR wall mm	Inner wall mm	Inner min Ø mm	Inner max Ø mm	Armour n/mm	Outer wall mm	Min. OD mm	Max. OD mm	Min. bend mm	Current 25 °C A	Cond. DC 20 °C Ω/km	Armour DC 20 °C Ω/km	Cu mass kg/km	Mass ≈ kg/km
☐ Type 621 · 4 × 35 mm ²	35	276/0.40	8.40	5.0	3.8	53.8	56.8	7/0.90	6.0	71.2	75.2	752	135	0.565	0.70	1,350	8,900
☐ Type 621 · 4 × 50 mm ²	50	396/0.40	10.10	5.0	5.0	60.5	63.5	7/1.25	6.3	81.0	85.3	853	170	0.393	0.50	1,950	11,100
☐ Type 621 · 4 × 70 mm ²	70	360/0.50	11.90	5.0	5.0	65.6	69.4	7/1.25	7.0	87.1	91.4	914	205	0.277	0.43	2,700	13,000
☐ Type 621 · 4 × 95 mm ²	95	475/0.50	13.90	5.0	5.0	70.7	74.5	7/1.25	7.5	93.2	97.5	975	250	0.210	0.39	3,700	14,050
☐ Type 621 · 4 × 120 mm ²	120	608/0.50	15.50	5.0	5.0	74.3	78.1	7/1.25	7.8	97.4	101.7	1,017	295	0.164	0.38	4,650	20,600
☐ Type 621 · 4 × 150 mm ²	150	756/0.50	17.20	5.0	5.0	79.2	83.2	7/1.25	8.3	103.3	107.6	1,076	320	0.132	0.35	5,800	22,000

– All 4 cores (3 phase + 1 pilot/earth) have equal conductor cross-sections and 5.0 mm nominal EPR insulation.

– 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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/bs-6708-type-621-armoured-power-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.