



Mining trailing & reeling cables

BS 6708 Type 70 / 71 Armoured

BS 6708 Type 70 & Type 71 Pliable Wire Armoured Mining Cable

320/550 V 4-core & 5-core × 4 mm² pliable wire-armoured lighting & control cables



BS 6708

320/550 V · Types 70 & 71

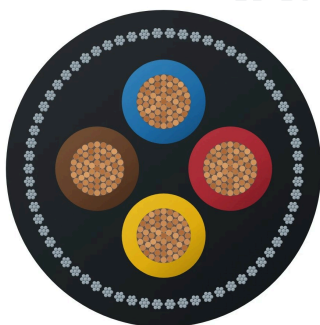
7/0.45 mm Pliable Wire Armour

Application

320/550 V (BS 6708) 4-core (Type 70) and 5-core (Type 71) × 4 mm² pliable wire-armoured mining cables for coalface lighting, signalling and control, with EPR core insulation, 2.0 mm rubber inner sheath, 7/0.45 mm galvanized steel armour and 2.5 mm PCP sheath.

Typical uses: Coalface lighting luminaire feeders, Longwall chock signalling & control, Conveyor pull-wire & emergency stop loops, Mine roadway auxiliary circuits, Deep-mine gassy workings, Quarry lighting & control distribution

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	Elastomeric cradle	
5	Inner sheath	2.0 mm rubber inner sheath
6	Pliable wire armour (PWA)	7/0.45 mm PWA
7	Outer sheath	BS 6708 / BS 7655 EM2

Technical data

Typical values

Rated voltage (U0/U)	320/550 V AC (U0/U) per datasheet (also covered up to 640/1,100 V in BS 6708:1998)	AC test voltage	1.5 kV AC dielectric test on all cores
Current rating (25 °C)	28 A continuous current rating at 25 °C ambient (4 mm ² Class 5 tinned copper)	Conductor & armour DC resistance	5.09 Ω/km max. conductor DC resistance at 20 °C · 5.07 Ω/km (Type 70) and 4.63 Ω/km (Type 71) max. armour DC resistance
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	234 mm (Type 70 4×4 mm ²) and 247 mm (Type 71 5×4 mm ²) minimum bending radius (9 × maximum OD)	Maximum pulling tension	96 kgf (Type 70 4×4 mm ²) and 100 kgf (Type 71 5×4 mm ²) maximum pulling tension
Sheathing & pliable wire armour	Unscreened EPR cores (1.0 mm wall) laid up in contact + 2.0 mm rubber inner sheath (Ø 15.8–19.2 mm) + 7/0.45 mm galvanized steel pliable wire armour + 2.5 mm heavy-duty PCP outer sheath	Flame retardance	Flame retardant polychloroprene outer sheath to BS 6708 / BS EN 60332-1-2
Crush & mine environment	7/0.45 mm galvanized steel pliable wire armour + 2.5 mm heavy-duty PCP outer sheath resists rockfall impact, abrasion, oil and mine water	Standards	BS 6708 (Types 70 & 71); IEC 60228 Class 5; BS 7655

Sizes

2 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	EPR insul. mm	Inner sh. mm	Inner sh. Ø mm	Armour strand	Outer sh. 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. DC res. Ω/km	Armour DC res. Ω/km
☐ Type 70 · 4×4	56/0.30	2.60	1.0	2.0	15.8–17.8	7/0.45	2.5	23.5	26.0	234	96	1,100	154	28	5.09	5.07
☐ Type 71 · 5×4	56/0.30	2.60	1.0	2.0	17.2–19.2	7/0.45	2.5	24.9	27.4	247	100	1,230	192	28	5.09	4.63

– Both Type 70 (4×4 mm²) and Type 71 (5×4 mm²) use 7/0.45 mm galvanized steel pliable wire armour over a 2.0 mm rubber inner sheath.

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-70-71-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.