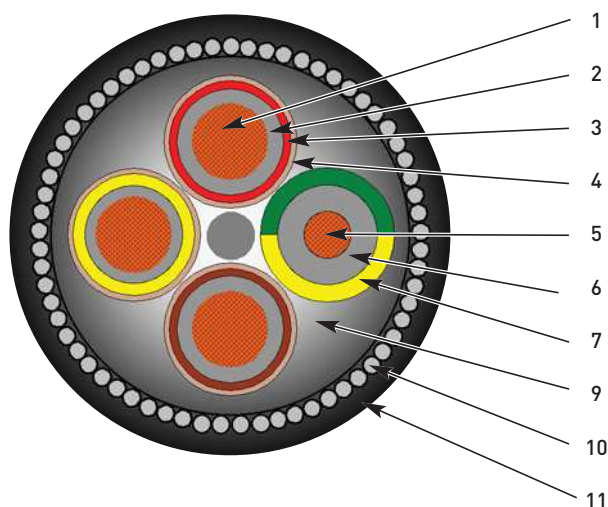




## Type 631 Flexible Trailing Cables with Galvanised Steel Pliable Wire Armouring

3800/6600 volt in accordance with BS 6708:1998

For use as mine roadway extension cables and mechanically protected trailing cables in quarries. BCS 504 refers



Item	Description	Details
1	Phase conductor	(3 off) TAC flex conductors
2	Phase insulation	Semi-con, extruded MEPR black
3	Phase identification	Proofed tape – red, yellow, brown
4*	Phase core screen	Composite copper/nylon braid
5	Earth conductor	(1 off) TAC flex conductor
6	Earth insulation	Semi-con. Tape extruded MEPR black
7	Earth identification	Proofed tape – green, yellow
8	Lay up	3 power cores + 1 earth core laid up around an elastomeric centre
9	Bedding sheath	Extruded PCP black
10	Pliable armour	Galvanised steel wires
11	Overall sheath	Extruded heavy duty PCP black with red stripe

### Description

Flexible tinned annealed copper (TAC) conductors, semi-con/MEPR insulated, 3 copper/nylon screened power cores, plus 1 unscreened earth core, laid up around a PCP centre, elastomeric bedding sheathed, pliable galvanised steel wire armoured and sheathed overall with a heavy duty flame retardant elastomeric compound.



## Type 631 Trailing Cable

### TECHNICAL DETAILS

Phase Conductor			
Number and CSA	mm <sup>2</sup>	3 x 50 mm <sup>2</sup>	3 x 70 mm <sup>2</sup>
Nominal diameter over insulation and tape	mm	20.45	22.45
Nominal diameter over copper/nylon screen	mm	22.45	24.45
Earth Conductor			
Number and CSA	mm <sup>2</sup>	1 x 35 mm <sup>2</sup>	1 x 50 mm <sup>2</sup>
Nominal diameter over insulation and tape	mm	22.45	24.45
Cable Details			
Diameter over inner sheath - minimum	mm	65.40	70.50
Diameter over inner sheath - maximum	mm	69.20	74.30
Overall diameter - minimum	mm	86.70	92.80
Overall diameter - maximum	mm	91.00	97.10
Minimum bending radius	mm	910	970
Maximum pulling tension	kgf	1110	1560
Approximate cable weight	kg/km	13400	15400
Electrical Details			
Continuous current rating at 25°C ambient	Amps	170	205
Maximum d.c. resistance at 20°C:			
- Power conductor	Ω/km	0.393	0.277
- Earth conductor	Ω/km	0.565	0.393
- Screens in parallel	Ω/km	0.400	0.400
- Armour	Ω/km	0.450	0.420
Nominal reactance at 50 Hz	Ω/km	0.131	0.124
Nominal reactance at 60 Hz	Ω/km	0.157	0.148
Minimum insulation resistance of power cores at 20°C	MΩ/km	1400	1200

AEI Cables reserves the right to amend the product information without notice or liability. The information is considered accurate at the time of going to print.



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