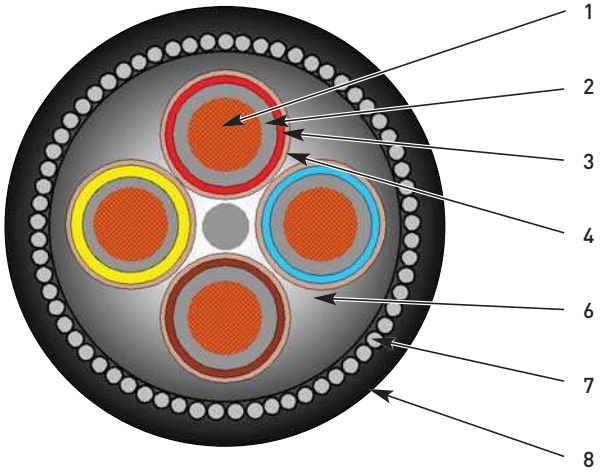
Type 62, 63 and 64 Flexible Trailing Cables with Galvanised Steel Pliable Wire Armouring

640/1100 volt in accordance with BS 6708:1998

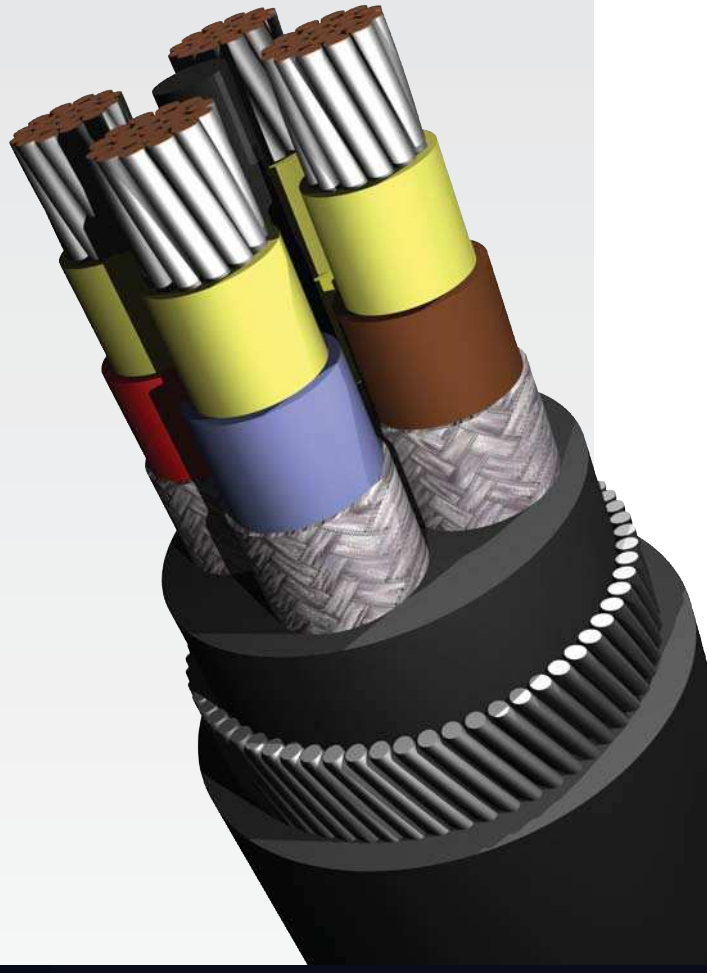
For use as mine roadway extension cables and mechanically protected trailing cables in quarries and coalface lighting. BCS 504 refers



Item	Description	Details
1	Core conductor	2, 3, or 4 TAC flex conductors
2	Core insulation	Extruded MEPR yellow
3	Core identification	Type 62 – brown and blue Type 63 – red, brown, blue Type 64 – red, yellow, brown and blue
4	Core screen	Composite copper/nylon braid
5	Lay up	Type 64 laid around an elastomeric centre
6	Bedding sheath	Extruded PCP black
7	Pliable armour	Galvanised steel wires
8	Overall sheath	Extruded heavy duty PCP black

Description

Flexible tinned annealed copper (TAC) conductors, MEPR insulated, copper/nylon screened power cores, laid up around a PCP centre where applicable, elastomeric bedding, galvanised steel wire armoured and sheathed overall with a heavy duty flame retardant elastomeric compound.



AEI CABLES

Type 62, 63 and 64 Flexible Trailing Cables To BS 6708:1998

TECHNICAL DETAILS

Phase Conductor				
Number and nom. CSA	mm^2	2 x 4 mm^2	3 x 4 mm^2	4 x 4 mm^2
Nominal diameter over insulation and tape	mm	4.80	4.80	4.80
Nominal diameter over copper/nylon screen	mm	6.00	6.00	6.00
Cable Details				
Diameter over inner sheath - minimum	mm	16.20	17.10	18.70
Diameter over inner sheath - maximum	mm	18.20	19.10	20.70
Overall diameter – minimum	mm	23.90	24.80	26.40
Overall diameter - maximum	mm	26.40	27.30	28.90
Minimum bending radius	mm	270	280	290
Maximum pulling tension	kgf	48	72	96
Approximate cable weight	kg/km	1090	1230	1360
Electrical Details				
Continuous current rating at 25°C ambient	Amps	28	28	28
Maximum d.c. resistance at 20°C:				
- Power conductor	Ω/km	5.090	5.090	5.090
- Screens in parallel	Ω/km	5.500	3.900	2.800
- Armour	Ω/km	4.910	4.630	4.160
Nominal reactance at 50 Hz	Ω/km	0.119	0.119	0.119
Nominal reactance at 60 Hz	Ω/km	0.143	0.143	0.143
Minimum insulation resistance of power cores at 20°C	MΩ/km	590	590	590
3 Phase volt drop based on full load current at 50 Hz	mV/A/mt	12.38*	10.72	10.72

*Value quoted is for single phase