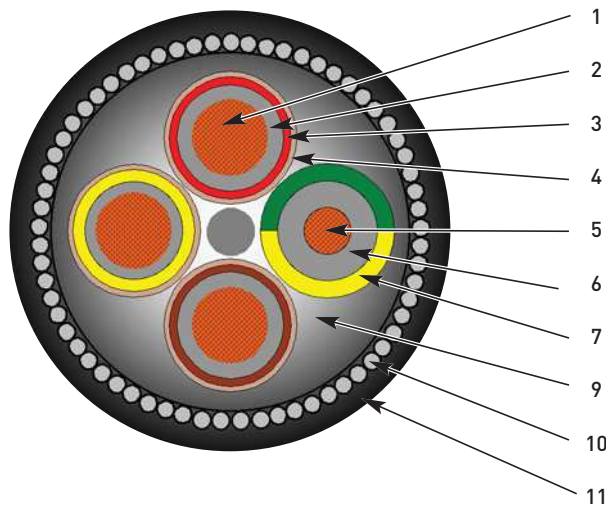




Type 631 Flexible Trailing Cables with Galvanised Steel Pliable Wire Armouring

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 ² | 3 x 50 mm ² | 3 x 70 mm ² |
| 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 ² | 1 x 35 mm ² | 1 x 50 mm ² |
| 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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