

# Type 450 Flexible Copper Screened Mining Cable With Two Earth And One Pilot Core



Eland Product Group: C3L

## APPLICATION

For power supply to a wide range applications. For use where two earth and one pilot cores are required. For power supply to draglines and slow reeling applications where copper screened cables are required. Other industrial applications

## CHARACTERISTICS

### Voltage Rating

Type 450.3 - 3.3kV

Type 450.6 - 6.6kV

Type 450.11 - 11kV

Type 450.22 - 22kV

Type 450.33 - 33kV

### Temperature Rating

-25°C to +90°C

## CONSTRUCTION

### Conductor

Tinned annealed copper wires

### Conductor Screen

Semi-conductive tape + thermosetting compound

### Insulation

EPR (Ethylene Propylene Rubber) type XR-EP-90

### Insulation Screen

Semi-conductive thermosetting compound

### Screen

Tinned copper/polyamide braid

### Cable Assembly

Three screened power, two earth and one pilot core laid up with right hand direction on the rubber centre filler

### Sheath

Double layer HD-PCP (Heavy Duty Polychloroprene) - extra heavy duty, oil resistant and flame retardant.

An open braid of polyamide yarns between layer of rubber

### Sheath Colour

● Black

## STANDARDS

AS/NZS 2802: 2000, AS/NZS 1125:2001, AS/NZS 2802:2003,  
Water resistant  
Flame retardant,  
UV, sunlight, ozone resistant  
Oil resistant

## ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



8578



FS 672069



EMS 672067



OHS 672066

## REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



KM 634267





## DIMENSIONS

ELAND PART NO.	NO. CORES	NOMINAL CONDUCTOR AREA mm <sup>2</sup>	NUMBER AND NOMINAL DIAMETER OF WIRES n x mm	THICKNESS OF INSULATION mm <sup>2</sup>	NOMINAL DIAMETER OVER INSULATION mm	CORE SCREEN SIZE mm	AREA OF SCREEN mm <sup>2</sup>	PILOT COND. STRAND/ SIZE No/mm	THICKNESS PILOT CORE COVERING mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL DIAMETER mm	NOMINAL WEIGHT kg/100m
<b>Type 450.3-Class 1</b>												
C3L0303016BK	3+2+1	16	126x0.4	2.2	12.4	128/0.25	6.3	120/0.3	1.4	4.5	42.8	266
C3L0303025BK	3+2+1	25	209x0.4	2.2	14	118/0.3	8.3	120/0.3	1.4	4.8	46.9	338
C3L0303035BK	3+2+1	35	285x0.4	2.2	15.2	127/0.3	9	120/0.3	1.4	5.1	50.4	392
C3L0303050BK	3+2+1	50	380x0.4	2.4	17.1	141/0.3	10	180/0.3	1.4	5.6	55.7	487
C3L0303070BK	3+2+1	70	361x0.5	2.4	19.1	117/0.4	14.7	152/0.4	1.4	6	61.3	637
C3L0303095BK	3+2+1	95	475x0.5	2.4	20.3	123/0.4	15.5	196/0.4	1.6	6.3	64.5	734
C3L0303120BK	3+2+1	120	608x0.5	2.4	22.4	135/0.4	17	236/0.4	1.6	6.4	69.2	867
C3L0303150BK	3+2+1	150	740x0.5	2.4	24.2	144/0.4	18.1	314/0.4	1.6	6.6	73.5	1022
C3L0303185BK	3+2+1	185	925x0.5	2.4	26.3	144/0.4	26.7	237/0.4	1.6	6.7	78.3	1175
C3L0303240BK	3+2+1	240	1221x0.5	2.4	28.9	136/0.5	28.3	302/0.5	1.6	6.9	84.7	1741
<b>Type 450.6-Class 1</b>												
C3L0603016BK	3+2+1	16	126x0.4	3	12.4	118/0.3	8.3	120/0.3	1.4	5	47.7	317
C3L0601025BK	3+2+1	25	209x0.4	3	14	129/0.3	9.1	120/0.3	1.6	5.2	51.3	382
C3L0603035BK	3+2+1	35	285x0.4	3	15.2	139/0.3	9.8	120/0.3	1.6	5.5	54.8	443
C3L0603050BK	3+2+1	50	380x0.4	3	17.1	149/0.3	10.5	177/0.3	1.6	5.9	58.9	534
C3L0603070BK	3+2+1	70	361x0.5	3	19.1	123/0.4	15.5	152/0.4	1.6	6.3	64.3	682
C3L0603095BK	3+2+1	95	475x0.5	3	20.3	130/0.4	16.3	196/0.4	1.8	6.4	67.1	771
C3L0603120BK	3+2+1	120	608x0.5	3	22.4	141/0.4	17.7	236/0.4	1.8	6.5	71.9	912
C3L0601350BK	3+2+1	150	740x0.5	3	24.2	144/0.4	18.1	314/0.4	1.8	6.6	76.2	1073
C3L0603185BK	3+2+1	185	925x0.5	3	26.3	144/0.4	18.1	237/0.5	1.8	6.8	81	1222
C3L0603240BK	3+2+1	240	1221/0.5	3	28.9	144/0.5	27.7	302/0.5	1.8	7	87.5	1502
<b>Type 450.11-Class 1</b>												
C3L1103025BK	3+2+1	25	209x0.4	5	19.6	120/0.4	15.1	120/0.3	2	6.3	62.8	542
C3L1103035BK	3+2+1	35	285x0.4	5	20.9	127/0.4	16	120/0.3	2	6.4	65.8	601
C3L1103050BK	3+2+1	50	380x0.4	5	22.4	135/0.4	17	177/0.3	2	6.5	69.4	692
C3L1103070BK	3+2+1	70	361x0.5	5	24.4	144/0.4	18.1	152/0.4	2	6.6	73.9	826
C3L1103095BK	3+2+1	95	475x0.5	5	25.6	144/0.4	18.1	196/0.4	2.2	6.7	76.7	926
C3L1103120BK	3+2+1	120	608x0.5	5	27.7	144/0.5	18.1	236/0.4	2.2	6.9	81.8	1082
C3L1103150BK	3+2+1	150	740x0.5	5	29.5	139/0.5	27.3	314/0.4	2.2	7	86.2	1263
C3L1103185BK	3+2+1	185	925x0.5	5	31.6	144/0.5	28.3	237/0.5	2.2	7.1	90.9	1433
C3L1103240BK	3+2+1	240	1221/0.5	5	34.2	144/0.5	28.3	302/0.5	2.2	7.3	96.8	1695
<b>Type 450.22-Class 2</b>												
C3L2203035BK	3+2+1	35	285x0.4	7.6	26.3	144/0.4	18.1	120/0.3	2.5	6.8	78.5	601
C3L2203050BK	3+2+1	50	380x0.4	7.6	27.8	144/0.4	18.1	183/0.3	2.5	6.9	81.8	692
C3L2203070BK	3+2+1	70	361x0.5	7.6	29.8	140/0.5	27.5	152/0.4	2.5	7	86.9	826
C3L2203095BK	3+2+1	95	475x0.5	7.6	31	144/0.5	28.3	196/0.4	2.5	7.2	89.9	926
C3L2203120BK	3+2+1	120	608x0.5	7.6	33.1	144/0.5	28.3	236/0.4	2.5	7.3	94.7	1082
C3L2203150BK	3+2+1	150	740x0.5	7.6	34.9	144/0.5	28.3	314/0.4	2.5	7.4	104.4	1263
<b>Type 450.33-Class 2</b>												
C3L3303050BK	3+2+1	50	380x0.4	10.5	34.1	144/0.5	28.3	183/0.3	2.5	7.4	96.9	1222
C3L3303070BK	3+2+1	70	361x0.5	10.5	36.1	144/0.5	28.3	152/0.4	2.5	7.5	101.4	1385
C3L3303095BK	3+2+1	95	475x0.5	10.5	37.3	144/0.5	28.3	196/0.4	2.5	7.7	104.4	1505

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.