



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

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECCE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. CORES	NOMINAL CONDUCTOR AREA mm ²	NUMBER AND NOMINAL DIAMETER OF WIRES n x mm	THICKNESS OF INSULATION mm ²	NOMINAL DIAMETER OVER INSULATION mm	CORE SCREEN SIZE mm	AREA OF SCREEN mm ²	PILOT COND. STRAND/ SIZE No/mm	THICKNESS PILOT CORE COVERING mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL DIAMETER mm	NOMINAL WEIGHT kg/100m
Type 450.3-Class 1												
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
Type 450.6-Class 1												
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
Type 450.11-Class 1												
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
Type 450.22-Class 2												
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
Type 450.33-Class 2												
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.