

Type 441 Flexible Semi-Conductive Screened Mining Cable



Eland Product Group: C3K

APPLICATION

Semi-conductive screened cable for many uses. For use where three earth/protecting and one pilot core are required. Larger cables for power supply to draglines, shovels and drills. Suitable for trailing and also for reeling applications. Other industrial applications

CHARACTERISTICS

Voltage Rating

Type 441.1 - 1.1kV
Type 441.3 - 3.3kV
Type 441.6 - 6.6kV
Type 441.11 - 11kV
Type 441.22 - 22kV

Temperature Rating

-25°C to +90°C

CONSTRUCTION

Conductor

Tinned annealed copper wires

Separator/Screen

1.1kV: Paper separator
For other nominal voltages semi-conductive tape+ thermosetting compound over conductors

Insulation

Ethylene propylene rubber type R-EP-90 and XR-EP-90

Insulation Screen

1.1kV: Synthetic tape
From 3.3kV: semi-conductive thermosetting compound

Cable Assembly

Three screened power and three earth cores laid up with right hand direction on cradle separator with central pilot core

Inner Sheath

Semi-conductive thermosetting compound

Armour

Polyamide yarns

Outer Sheath

HD-CSP (Heavy duty Chlorosulphonated Polyethylene) extra heavy duty, oil resistant and flame retardant

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 674267





DIMENSIONS

ELAND PART NO.	NO. CORES	NOMINAL CONDUCTOR AREA mm ²	NUMBER AND NOMINAL DIAMETER OF WIRES n x mm	THICKNESS OF INSULATION mm	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
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Type 441.1-Class 2

C3K01030060BK	3+3	6	84x0.3	1.5	6.5	33/0.3	2.3	24/0.2	0.8	3.8	28.6	111
C3K0103010BK	3+3	10	77x0.4	1.5	7.7	51/0.3	3.6	24/0.2	0.8	3.8	31.2	136
C3K0103016BK	3+3	16	126x0.4	1.6	9	81/0.3	5.7	24/0.2	0.8	3.9	34.1	176
C3K0103025BK	3+3	25	209x0.4	1.6	10.5	81/0.3	5.7	24/0.2	0.8	4.2	37.8	231
C3K0103035BK	3+3	35	285x0.4	1.6	12.1	81/0.3	5.7	24/0.2	0.8	4.4	41.1	274
C3K0103050BK	3+3	50	380x0.4	1.7	13.8	120/0.3	8.5	40/0.2	0.8	4.9	45.8	349
C3K0103070BK	3+3	70	361x0.5	1.8	16.1	110/0.4	13.8	40/0.2	0.8	5.3	52.2	481
C3K0103095BK	3+3	95	475x0.5	2	17.7	135/0.4	16.9	40/0.2	0.8	5.8	56.6	579
C3K0103120BK	3+3	120	608x0.5	2.1	20	165/0.4	21.2	40/0.2	0.8	6.3	62.6	724
C3K0103150BK	3+3	150	740x0.5	2.3	22.2	216/0.4	27.1	40/0.2	0.8	6.7	68.3	881
C3K0103185BK	3+3	185	925x0.5	2.5	24.7	252/0.4	32.1	40/0.2	0.8	7.3	74.8	1049
C3K0103240BK	3+3	240	1221x0.5	2.8	27.9	214/0.5	42	40/0.2	0.8	8	83.4	1329
C3K0103300BK	3+3	300	1525x0.5	3	31	280/0.5	55	40/0.2	0.8	8.7	31.1	1629

Type 441.3-Class 1

C3K0303016BK	3+3	16	126x0.4	2.2	12.4	81/0.3	5.7	24/0.2	0.8	4.6	43	241
C3K0301025BK	3+3	25	209x0.4	2.2	14	81/0.3	5.7	24/0.2	0.8	4.9	46.8	304
C3K0303035BK	3+3	35	285x0.4	2.2	15.3	81/0.3	5.7	24/0.2	0.8	5.2	50.2	359
C3K0303050BK	3+3	50	380x0.4	2.4	17.1	120/0.3	8.5	40/0.2	0.8	5.7	55.4	446
C3K0303070BK	3+3	70	361x0.5	2.4	19.1	110/0.4	13.8	40/0.2	0.8	6	60.3	571
C3K0303095BK	3+3	95	475x0.5	2.4	20.3	135/0.4	16.9	40/0.2	0.8	6.4	63.5	659
C3K0303120BK	3+3	120	608x0.5	2.4	22.4	165/0.4	21.2	40/0.2	0.8	6.5	68.5	794
C3K0301350BK	3+3	150	740/0.5	2.4	24.2	216/0.4	27.1	40/0.2	0.8	6.6	72.6	931
C3K0303185BK	3+3	185	925x0.5	2.4	26.3	252/0.4	32.1	40/0.2	0.8	6.7	77.4	1080
C3K0303240BK	3+3	240	1221x0.5	2.4	28.9	214/0.5	42	40/0.2	0.8	6.9	83.3	1310
C3K0303300BK	3+3	300	1525x0.5	2.4	31.5	280/0.5	55	40/0.2	0.8	7	89.2	1570

Type 441.6-Class 1

C3K0603016BK	3+3	16	126x0.4	3	14	81/0.3	5.7	24/0.2	0.8	5	47.4	241
C3K0603025BK	3+3	25	209x0.4	3	15.5	81/0.3	5.7	24/0.2	0.8	5.3	51.2	304
C3K0603035BK	3+3	35	285x0.4	3	16.8	81/0.3	5.7	24/0.2	0.8	5.6	54.7	359
C3K0603050BK	3+3	50	380x0.4	3	18.3	120/0.3	8.5	40/0.2	0.8	6	58.8	446
C3K0603070BK	3+3	70	361x0.5	3	19.1	110/0.4	13.8	40/0.2	0.8	6.3	63.8	571
C3K0603095BK	3+3	95	475x0.5	3	20.3	135/0.4	16.9	40/0.2	0.8	6.4	66.4	659
C3K0603120BK	3+3	120	608x0.5	3	21.5	165/0.4	21.2	40/0.2	0.8	6.6	71.3	794
C3K0603150BK	3+3	150	740x0.5	3	23.6	216/0.4	27.1	40/0.2	0.8	6.7	75.4	931
C3K0603185BK	3+3	185	925x0.5	3	25.4	252/0.4	32.1	40/0.2	0.8	6.8	80.1	1080
C3K0603240BK	3+3	240	1221x0.5	3	27.5	214/0.5	42	40/0.2	0.8	7	86.1	1310
C3K0603300BK	3+3	300	1525x0.5	3	30.1	280/0.5	55	40/0.2	0.8	7.1	91.9	1570

Type 441.11-Class 1

C3K1103025BK	3+3	25	209x0.4	5	19.6	81/0.3	5.7	24/0.2	0.8	6.3	62.1	481
C3K1103035BK	3+3	35	285x0.4	5	20.8	81/0.3	5.7	24/0.2	0.8	6.4	65.1	542
C3K1103050BK	3+3	50	380x0.4	5	22.4	120/0.3	8.5	40/0.2	0.8	6.5	68.7	620
C3K1103070BK	3+3	70	361x0.5	5	24.4	110/0.4	13.8	40/0.2	0.8	6.6	63.8	750
C3K1103095BK	3+3	95	475x0.5	5	25.6	135/0.4	16.9	40/0.2	0.8	6.8	73	850
C3K1103120BK	3+3	120	608x0.5	5	27.7	165/0.4	21.1	40/0.2	0.8	6.9	76.2	986
C3K1103150BK	3+3	150	740x0.5	5	29.5	216/0.4	27.1	40/0.2	0.8	7	80.8	1129
C3K1103185BK	3+3	185	925x0.5	5	31.6	252/0.4	32.1	40/0.2	0.8	7.1	85	1289
C3K1103240BK	3+3	240	1221x0.5	5	34.2	214/0.5	42	40/0.2	0.8	7.3	89.6	1539



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Type 441.22-Class 1												
C3K2203035BK	3+3	35	7.6	285x0.4	26.3	81/0.3	5.7	24/0.2	0.8	6.9	78	733
C3K2203050BK	3+3	50	7.6	380x0.4	27.8	120/0.3	8.5	40/0.2	0.8	7	81.5	820
C3K2203070BK	3+3	70	7.6	361x0.5	29.8	110/0.4	13.8	40/0.2	0.8	7.1	85.9	960
C3K2203095BK	3+3	95	7.6	475x0.5	31	135/0.4	16.9	40/0.2	0.8	7.2	88.7	1070
C3K2203120BK	3+3	120	7.6	608x0.5	33.1	165/0.4	21.2	40/0.2	0.8	7.3	93.6	1220
C3K2203150BK	3+3	150	7.6	740x0.5	34.9	216/0.4	27.1	40/0.2	0.8	7.4	97.6	1380
C3K2203185BK	3+3	185	7.6	925x0.5	37	252/0.4	32.1	40/0.2	0.8	7.6	102.6	1545

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.