

# Type 409 Flexible Copper Screened Mining Cable With Central Pilot



Eland Product Group: C3F

## APPLICATION

For use as flexible feeder cable to machinery. More suitable as a trailing cable. Larger cables for power supply to draglines, shovels and drills. Smaller sizes used for drills, held hand tools and equipment.

## CHARACTERISTICS

### Voltage Rating

Type 409.1 - 1.1kV  
Type 409.3 - 3.3kV  
Type 409.6 - 6.6kV  
Type 409.11 - 11kV  
Type 409.22 - 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

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

### Insulation Screen

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

### Screen

Tinned copper/polyamide braid

### Cable Assembly

Three screened power laid up with right hand direction on cradle separator with central pilot core

### Sheath

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

### Sheath Colour



## STANDARDS

AS/NZS 1125:2001, AS/NZS 2802:2000,  
Water resistant  
Flame retardant,  
UV, sunlight, ozone and 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>	THICKNESS OF INSULATION mm	NUMBER AND NOMINAL DIAMETER OF WIRES n x mm	NOMINAL DIAMETER OVER INSULATION mm	CORE SCREEN SIZE mm	AREA OF SCREEN mm <sup>2</sup>	PILOT COND. STRAND/ SIZE No/mm	THICKNESS EPR COVERING mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL DIAMETER mm	NOMINAL WEIGHT kg/100m
Type 409.1												
C3F01010060BK	3+1	6	1.5	84x0.3	6.5	7/0.25	7.2	24/0.2	0.8	3.8	30	129
C3F0101010BK	3+1	10	1.5	77x0.4	7.7	7/0.25	8.6	24/0.2	0.8	3.8	32.6	157
C3F0101016BK	3+1	16	1.6	126x0.4	9	7/0.25	9.6	24/0.2	0.8	4	35.8	157
C3F0101025BK	3+1	25	1.6	209x0.4	10.5	7/0.25	11.3	24/0.2	0.8	4.3	39.7	255
C3F0101035BK	3+1	35	1.6	285x0.4	12.1	7/0.25	12.4	24/0.2	0.8	4.6	43.8	312
C3F0101050BK	3+1	50	1.7	380x0.4	13.8	7/0.25	14.4	40/0.2	0.8	5	48.4	386
C3F0101070BK	3+1	70	1.8	361x0.5	16.1	7/0.25	16.5	40/0.2	0.8	5.4	54	503
C3F0101095BK	3+1	95	2	475x0.5	17.7	7/0.30	21.8	40/0.2	0.8	6	59.4	622
C3F0101120BK	3+1	120	2.1	608x0.5	20	7/0.30	24.7	40/0.2	0.8	6.4	65.2	760
C3CF101150BK	3+1	150	2.3	740x0.5	22.2	7/0.40	36.9	40/0.2	0.8	6.9	72.2	960
C3CF101185BK	3+1	185	2.5	925x0.5	24.7	7/0.40	40.5	40/0.2	0.8	7.4	78.8	1139
C3CF101240BK	3+1	240	2.8	1221x0.5	27.9	7/0.50	57.7	40/0.2	0.8	8.2	88.7	1465
C3CF601016BK		300	3	1525x0.5	31	7/0.50	63.2	40/0.2	0.8	8.8	96.5	1790
Type 409.3												
C3F0301016BK		16	3	126x0.4	12.5	7/0.25	13.1	24/0.2	0.8	5.3	46.3	301
C3F0301025BK		25	3	209x0.4	14	7/0.25	14.8	24/0.2	0.8	5.6	50	371
C3F0301035BK		35	3	285x0.4	15.3	7/0.25	15.8	24/0.2	0.8	5.9	53.5	430
C3F0301050BK		50	3	380x0.4	16.8	7/0.25	17.2	40/0.2	0.8	6.3	57.5	511
C3F0301070BK		70	3	361x0.5	18.8	7/0.25	18.6	40/0.2	0.8	6.6	62.4	624
C3F0301095BK		95	3	475x0.5	20	7/0.30	20.3	40/0.2	0.8	7.1	66.1	724
C3F0301120BK		120	3	608x0.5	22.1	7/0.40	27.2	40/0.2	0.8	7.4	72.1	880
C3F0301150BK		150	3	740x0.5	23.9	7/0.40	39.6	40/0.2	0.8	7.8	77.9	1079
C3F0301185BK		185	3	925x0.5	26	7/0.40	42.2	40/0.2	0.8	8.2	83.5	1251
C3F0301240BK		240	3	1221x0.5	28.6	7/0.40	46.6	40/0.2	0.8	8.8	90.3	1502
Type 409.6												
C3F0601016BK		16	5	126x0.4	16.5	7/0.25	17.2	24/0.2	0.8	6.4	57.3	440
C3CF601025BK		25	5	209x0.4	18.0	7/0.25	18.6	24/0.2	0.8	6.7	61.2	516
C3CF601035BK		35	5	285x0.4	19.3	7/0.25	18.6	24/0.2	0.8	7	64.6	584
C3CF601050BK		50	5	380x0.4	20.8	7/0.25	21.3	40/0.2	0.8	7.3	68.5	669
C3CF601070BK		70	5	361x0.5	22.8	7/0.25	23.4	40/0.2	0.8	7.7	73.7	804
C3F0601095BK		95	5	475x0.5	24.0	7/0.25	29.2	40/0.2	0.8	8.1	77.8	934
C3F0601120BK		120	5	608x0.5	26.1	7/0.30	31.7	40/0.2	0.8	8.5	83.1	1090
C3F0601150BK		150	5	740x0.5	27.9	7/0.40	34.1	40/0.2	0.8	8.9	89.1	1310
C3F0601185BK		185	5	925x0.5	30.0	7/0.40	47.5	40/0.2	0.8	9.3	94.5	1479
C3F0601240BK		240	5	1221x0.5	32.6	7/0.40	52.8	40/0.2	0.8	9.9	101.4	1749
Type 409.11												
C3F1101025BK		25	7.6	209x0.4	23.4	7/0.25	23.7	24/0.2	0.8	8.1	75.6	750
C3F1101035BK		35	7.6	285x0.4	24.7	7/0.30	30.2	24/0.2	0.8	8.4	79.6	859
C3F1101050BK		50	7.6	380x0.4	26.2	7/0.30	31.7	40/0.2	0.8	8.7	83.5	954
C3F1101070BK		70	7.6	361x0.5	28.2	7/0.30	34.1	40/0.2	0.8	9.1	88.7	1105
C3F1101095BK		95	7.6	475x0.5	29.4	7/0.40	47.5	40/0.2	0.8	9.6	93.6	1290
C3F1101120BK		120	7.6	608x0.5	31.5	7/0.40	51.0	40/0.2	0.8	9.9	98.7	1460
C3F1101150BK		150	7.6	740x0.5	33.3	7/0.40	53.7	40/0.2	0.8	10.3	103.4	1636
Type 409.22												
C3F1101035BK		35	10.5	285x0.4	32.6	7/0.40	55.4	24/0.2	0.8	10.0	105.0	1405
C3F1101050BK		50	10.5	380x0.4	34.1	7/0.40	58.1	40/0.2	0.8	10.3	108.8	1525

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.